



आरोग्यम् सुख सम्पदा

# 10<sup>th</sup> ANNUAL REPORT



2021-22

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR**

(AN AUTONOMOUS INSTITUTE UNDER THE MINISTRY OF HEALTH AND FAMILY WELFARE, GoD)



**Dr. Mansukh Mandaviya**  
Hon'ble Union Minister  
Ministry of Health & Family Welfare, GoI

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**Dr. Bharati Pravin Pawar**  
Hon'ble Minister of State  
Ministry of Health & Family Welfare, GoI



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(AN AUTONOMOUS INSTITUTE UNDER THE MINISTRY OF HEALTH AND FAMILY WELFARE, GOVERNMENT OF INDIA)



# 10<sup>th</sup> ANNUAL REPORT

## Jointly Edited by:

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**Shri Anshumaan Gupta**

Deputy Director (Admin.)

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Registrar & Additional Professor, Department of Pharmacology

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**Dr. Satyaki Ganguly**

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Associate Professor, Department of Obstetrics & Gynecology

**Shri Shiv Shankar Sharma**

Public Relations Officer



आरोग्यम् सुखं सम्पदा

# AIIMS RAIPUR AT A GLANCE- 2021-22

## Academic Details

1.	Teaching Departments	35
1.	Faculty Members (a) Medical (b) Nursing	160 (a) 158 (b) 2
2.	Non- Faculty Staff	2490

## Students Intake (FY 2021-22):

Medical Students	125
Nursing Students	75

## Hospital Services

Hospital/ Centre	Outpatients (including Casualty)	Inpatients	Surgery (Operations/ Procedures)	No. of Beds
Main Hospital	4,45,200	30,684	Major 7,510	960
			Minor 6,370	

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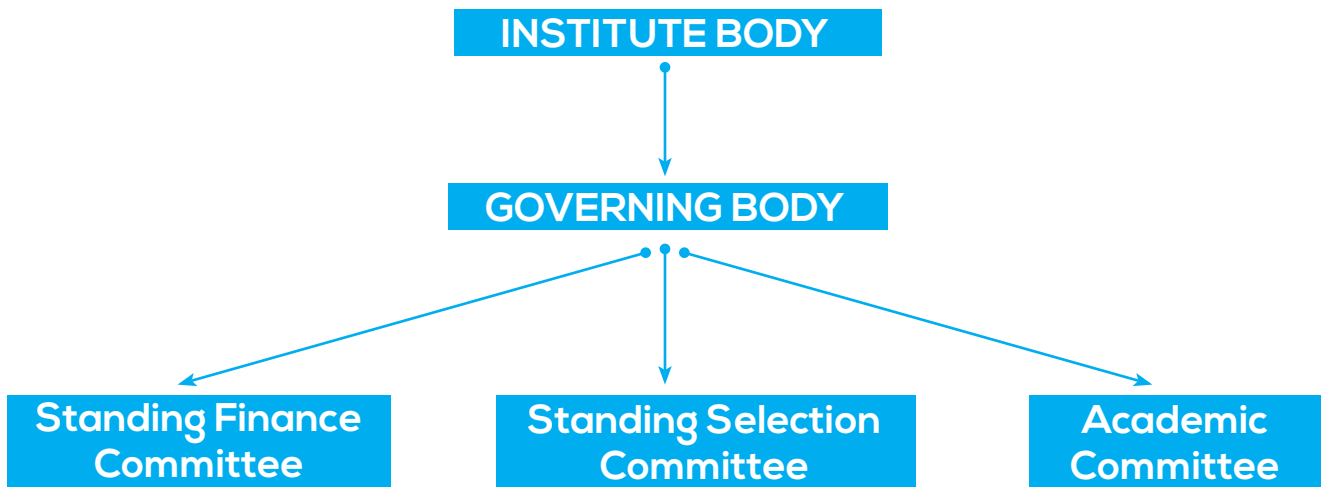
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## AIIMS - ORGANISATIONAL STRUCTURE





# MESSAGE FROM DIRECTOR



The year 2021-22 was yet another year filled with dual challenges, the second wave of dreaded COVID – 19 Pandemic and surge of Mucormycosis cases. Once again, AIIMS Raipur's committed team of doctors, nursing staff, post-graduates, interns, and other hospital employees demonstrated their mettle in fighting these health emergencies in a coordinated manner. While doing so, the institute left no stone unturned in terms of academic progress, non-COVID patient care and research during the financial year 2021 – 22. It gives me immense pleasure and satisfaction to present the 10<sup>th</sup> Annual Report and the Audited Statement of Accounts of AIIMS Raipur, for this Financial Year.

AIIMS Raipur offers undergraduate, postgraduate, super specialization, specialised training and other paramedical courses. There are currently 1303 students enrolled in various courses at the institute. Since its inception in 2012, this institute has admitted ten batches of MBBS students and nine batches of B.Sc. (Hons.) Nursing students. The annual intake of PG (MD/MS/MDS) seats was gradually increased

with the enhancement of faculty strength, patient care and diagnostic services. The institute now offers 148 seats per annum in 26 specialties. In the current financial year, the institute's Academic Committee approved MD in Radiotherapy (2 seats per annum), enhanced the seat intake of MD in Pathology and also approved one sponsored seat each in MD in Anaesthesiology, General Medicine, Paediatrics and Emergency Medicine; thus, taking the sum to 152 seats per annum.

In the year 2021 – 22, with the approval of new DM in Medical and Forensic Toxicology and enhancement of annual intake in DM Pulmonary Medicine, the total number of DM/MCh seats per annum in 14 superspeciality are 33. Similarly, nine more Post-doctoral Certificate Courses (PDCC) in various departments were approved in the current financial year, bringing the total to 35 seats per annum. Furthermore, the institute also ventured to start few more Ph. D. Courses as well as courses for Medical Record Officers (MRO) and Medical Record Technicians (MRT).

Five batches of MBBS students (from 2012 to 2016) have completed their internship, and five batches of B. Sc. (Hons.) Nursing students (from 2013 to 2017) have completed their course. The MBBS and B.Sc. (Hons.) Nursing students of AIIMS Raipur are pursuing postgraduate courses at various esteemed Central, State medical colleges in India and also in foreign universities. The postgraduate students of AIIMS Raipur are also undertaking Superspeciality Courses in prestigious institutes.

Four batches of MD/MS/MDS (July 2017, Jan 2018, July 2018 and January 2019) and two batches of M.Sc. Nursing have completed their courses and were declared successful. Likewise, three batches of PDCC students have completed their programme after receiving specialised training.

The hospital is fully operational and has 960 beds, 150 of which are ICU beds. The hospital is rendering its clinical services through fully functional 18 speciality department and 15 superspeciality departments, including 24 X 7 Trauma and Emergency Services. During 2021-22, the faculty strength increased, and as on 31.03.2022, the total number of faculty and non-faculty staff was 2694, which included regular, deputation, and contractual staff. The appointment of more faculty members and Nursing Officers is expected in the recruitment which are scheduled in next few months.

During 2<sup>nd</sup> wave of COVID – 19 Pandemic and Mucormycosis, committed efforts by the doctors, nursing staff and other paramedical staff of the institute helped to overcome these challenges. Our team's efforts were aided by the hospital's excellent infrastructure, adequate bed strength, specifically designated for COVID and Mucormycosis cases, critical care facilities, and well-equipped diagnostic facilities. I am grateful to the Ministry of Health and Family Welfare, Government of India and the Chhattisgarh State Government for their generous support to the institute during this difficult period.

During this challenging phase, the institute allocated 500 beds for COVID cases. From the beginning of the Pandemic until March 31, 2022, a total of 76,905 patients were screened for COVID - 19, 16,444 COVID - 19 patients were managed and 3,047

deliveries were performed, including 261 deliveries in COVID - 19 positive patients. The state-of-the-art State Level Virus Research and Diagnostic Laboratory (VRDL) performed 3,22,469 RT-PCRs tests, with 83,908 RT-PCRs tests performed in 2021 - 22. The institute was able to successfully manage cases of Mucormycosis with a dedicated multi-disciplinary team. In 2021-22, 690 patients were screened for mucormycosis. A total of 280 cases of Mucormycosis were admitted to AIIMS Raipur, of which, in 230 cases surgery was performed. During this phase, continuous training of healthcare professionals from our institute and others on infection prevention and control aspects, on COVID – 19 management by Hospital Infection Control Committee and COVID – 19 Management committee, respectively, was an integral part of holistic management.

The institute successfully conducted COVID – 19 vaccination campaign. Since its launch on January 16, 2021 to 31.03.2022, a total of 58,888 doses of COVID vaccine were administered. In addition, 1978 precautionary doses were also administered.

Despite this dual attack of COVID – 19 and Mucormycosis, the institute continued to provide uninterrupted non-COVID hospital services. This is reflected through various indicators such as 4,45,200 patients who availed OPD services, 30,684 IPD patients, 7510 major and 6370 minor surgeries that were performed in the year 2021 – 22. AYUSH services are also fully functional and till 31.03.2022, 64,824 patients have benefitted by the AYUSH services. Moreover, the institute also provided Telemedicine services extending Teleconsultation benefits to 34,215 patients.

Pradhan Mantri Jan Aarogya Yojana (PMJAY), a flagship scheme of Government of India has been functional since 01.11.2018. Since its launch, a total of 35,619 patients were benefitted and collected fund amounted to ₹ 42 crore. In the year 2021-22, a total of 9945 patients were benefitted under this scheme. The ARPAN scheme offers benefits to poor patients and the institute has also established the Rogi Kalyan Samiti.

The year 2021 – 22 also witnessed upgradation of services. It is worth noting that, to meet future

emergency oxygen requirements, the largest PSA Oxygen plant in Chhattisgarh, with the kind support of PMCARES Fund, DRDO and NHAI, has been set up at AIIMS Raipur, with a 1,000 Litre per minute oxygen generation capacity. In addition, 30 high-end Ventilators for COVID and non-COVID patients were made operational in various ICUs. I would like to express my heartfelt gratitude to MoHFW, GoI for their generous assistance.

The reliable services provided by dedicated team of our doctors and other staff to the patients from Chhattisgarh and neighbouring states, has brought laurels to the institute. AIIMS Raipur ranked as one of the World's Best Hospitals-2022 by Newsweek. AIIMS Raipur also bagged commendation and Cash prize in 'Kayakalp Scheme' for 2020-21.

The institute is constantly pursuing research on a variety of topics. The institute was part of many collaborative projects on COVID – 19 and Mucormycosis. Besides that, during this year, 30 extramural, 12 intramural and 279 academic projects have been approved. The institute has functional Hospital Infection Control Committee and Antimicrobial Stewardship Committee, which are

committed to achieve broader goal of reduction of Anti Microbial Resistance. The institute has hosted numerous Conferences, CMEs and Workshops on various topics during the year.

The institute has grown to become a well-known and prestigious medical institution in Central India. Every member of the AIIMS Raipur family has made significant contributions to the institution's progress. I sincerely thank my team for their unwavering support.

The Ministry of Health and Family Welfare, Government of India and the Chhattisgarh State Government have consistently provided continuous support to AIIMS Raipur, allowing the institute to provide the best services possible. I would like to express my heartfelt gratitude and seek continued support in the future.

We, AIIMS Raipur, as a team are determined to offer best and affordable healthcare services. By achieving academic excellence, doing research based on unmet needs, and providing the best patient care to the people of Chhattisgarh and our nation, we intend to sustain this continued growth.

Jai Hind!

Prof. (Dr.) Nitin M. Nagarkar  
Director and CEO

# Institute Body (IB)

S. No.	Name	Designation
1.	<b>Prof. (Dr.) George A. D'Souza</b> Dean St. John's Medical College, Bengaluru	President
2.	<b>Shri Arun Sao</b> Hon'ble Member of Parliament Lok Sabha	Member
3.	<b>Shri Sunil Soni</b> Hon'ble Member of Parliament Lok Sabha	Member
4.	<b>Ms. Saroj Pandey</b> Hon'ble Member of Parliament Rajya Sabha	Member
5.	<b>Secretary</b> Ministry of Health and Family Welfare Nirman Bhawan, New Delhi	Member
6.	<b>Director General of Health Services</b> Ministry of Health & Family Welfare Nirman Bhawan, New Delhi	Member (Ex-Officio)
7.	<b>Additional Secretary and Financial Advisor (AS&amp;FA)</b> Ministry of Health & Family Welfare Nirman Bhawan, New Delhi	Member
8.	<b>Dr. Purnendu Saxena</b> Director Visharad Hospital, Raipur, Chhattisgarh	Member
9.	<b>Chief Secretary</b> Government of Chhattisgarh Sachivalaya, Naya Raipur, Chhattisgarh	Member
10.	<b>Dr. Narayan Purushottam Dakshinkar</b> Vice-Chancellor Chhattisgarh Kamdhenu Vishwavidyalaya Anjora, Durg	Member
11.	<b>Dr. Surjit Singh</b> Professor & HoD Department of Paediatrics PGIMER, Chandigarh	Member
12.	<b>Prof. Gangadhar</b> Dean and Principal BTL Group of Institutions	Member
13.	<b>Prof. Bharat Bhasker</b> Director, Indian Institute of Management Atal Nagar, Raipur	Member

S. No.	Name	Designation
14.	<b>Dr. Shipra Sharma</b> Director Professor Medical Superintendent and Academic Incharge, DK Super-specialty Hospital and PG Institute, Raipur	Member
15.	<b>Dr. Pradeep Kumar Patra</b> Director cum Professor & HoD Department of Biochemistry Chhattisgarh Institute of Medical Sciences Bilaspur, Chhattisgarh	Member
16.	<b>Dr. Vijayendra Kumar</b> Professor & HoD Department of Paediatric Surgery Indira Gandhi Institute of Medical Sciences Patna, Bihar	Member
17.	<b>Prof. (Dr.) Nitin M. Nagarkar</b> Director and CEO All India Institute of Medical Sciences Raipur, Chhattisgarh	Member Secretary
18.	Additional Secretary (Health), MoHFW, Government of India, New Delhi	Permanent Special Invitee
19.	Joint Secretary (PMSSY), MoHFW, Government of India, New Delhi	Permanent Special Invitee

# Governing Body (GB)

S. No.	Name	Designation
1.	<b>Prof. (Dr.) George A. D'Souza</b> Dean St. John's Medical College, Bengaluru	Chairman
2.	<b>Shri Sunil Soni</b> Hon'ble Member of Parliament Lok Sabha	Member
3.	<b>Secretary</b> Ministry of Health and Family Welfare Government of India, New Delhi	Member
4.	<b>Director General of Health Services (DGHS)</b> Ministry of Health & Family Welfare Government of India, New Delhi	Member
5.	<b>Additional Secretary and Financial Advisor (AS&amp;FA)</b> Ministry of Health & Family Welfare Government of India, New Delhi	Member
6.	<b>Chief Secretary</b> Government of Chhattisgarh	Member
7.	<b>Dr. Narayan Purushottam Dakshinkar</b> Vice-Chancellor Chhattisgarh Kamdhenu Vishwavidyalaya, Anjora, Durg	Member
8.	<b>Prof. Bharat Bhasker</b> Director, Indian Institute of Management (IIM) Atal Nagar, Raipur, Chhattisgarh	Member
9.	<b>Dr. Pradeep Kumar Patra</b> Director cum Professor & HoD, Dept. of Biochemistry Chhattisgarh Institute of Medical Sciences Bilaspur, Chhattisgarh	Member
10.	<b>Dr. Surjit Singh</b> Professor & HoD, Department of Paediatrics PGIMER, Chandigarh	Member
11.	<b>Prof. (Dr.) Nitin M Nagarkar</b> Director and CEO All India Institute of Medical Sciences Raipur, Chhattisgarh	Member Secretary

## Permanent Special Invitees:

(i)	Additional Secretary (Health), MoHFW, Government of India, New Delhi
(ii)	Joint Secretary (PMSSY), MoHFW, Government of India, New Delhi
(iii)	Dean (Academics), AIIMS Raipur
(iv)	Deputy Director (Administration), AIIMS Raipur
(v)	Financial Advisor, AIIMS Raipur

# Standing Finance Committee (SFC)

S. No.	Name of Members	Designation
1.	<b>Secretary</b> Ministry of Health and Family Welfare Government of India, New Delhi	Chairman
2.	<b>Dr. Vijayendra Kumar</b> Professor & HoD, Department of Paediatric Surgery Indira Gandhi Institute of Medical Sciences Patna, Bihar	Vice- Chairman
3.	<b>Shri Arun Sao</b> Hon'ble Member of Parliament Lok Sabha	Member
4.	<b>Director General of Health Services (DGHS)</b> Ministry of Health & Family Welfare Government of India, New Delhi	Member
5.	<b>Additional Secretary and Financial Advisor (AS&amp;FA)</b> Ministry of Health & Family Welfare Government of India, New Delhi	Member
6.	<b>Chief Secretary</b> Government of Chhattisgarh	Member
7.	<b>Prof. (Dr.) Nitin M. Nagarkar</b> Director and CEO All India Institute of Medical Sciences Raipur, Chhattisgarh	Member Secretary

# ACADEMIC CUM EXAMINATION SECTION

**Dr. S.P. Dhaneria**  
Dean (Academics)  
Professor & Head  
Department of Pharmacology

**Dr. Alok C. Agrawal**  
Associate Dean (Academics)  
Professor & Head  
Department of Orthopaedics

**Dr. Nitin Gaikwad**  
Registrar  
Professor  
Dept. of Pharmacology

The Section has been entrusted with the responsibility of all Academic matters pertaining to the students and faculty of the institute as also examination work of the students admitted to the institute.

MBBS and B.Sc. (Hons) Nursing courses are being run since 2012 and 2013 respectively. The postgraduate courses (MD/MS) have been started from July 2017 with annual intake of 35 seats. The seats intake was enhanced gradually. In the year 2021-22, the Academic Committee of the Institute has approved to increase the seats from 141 to 148 seats per annum in its 7<sup>th</sup> and 8<sup>th</sup> meeting. In addition, 4 sponsored seats were also approved in 8<sup>th</sup> Academic Committee Meeting. M.Sc. Nursing-Psychiatric Nursing was started from July 2018 onwards with annual intake of 2 seats which was increased to 04 seats per annum from July 2019.

**Currently, following courses are available at AIIMS Raipur:**

Course	Annual Intake
MBBS	125
B.Sc. (Hons.) Nursing	75
Master of Public Health (MPH)	10 (Including 4 sponsored seats of Govt. of Chhattisgarh)
M.Sc. Nursing-Psychiatric Nursing	4

## Paramedical Courses

Course	Annual Intake
Bachelor in Audiology & Speech Language Pathology	4
B.Sc. in Operation Theatre Technology	8
B.Sc. in Medical Technology In Radiography	5
B.Sc. in Medical Laboratory Technology	8
Advanced Diploma in Radiotherapy Technology (ADRT)	2
Pre-Hospital Trauma Technician (PTT)	10

## MD/MS/MDS

Course	Annual Intake
MD in Anaesthesiology	14
MD in Anatomy	3
MD in Biochemistry	4



Course	Annual Intake
MD in Community and Family Medicine	8
MD in Dermatology	4
MS in ENT	5
MD in Emergency Medicine	8
MD in Forensic Medicine and Toxicology	2
MD in General Medicine	12
MS in General Surgery	10
MD in Microbiology	6
MD in Nuclear Medicine	2
MS in Obstetrics and Gynaecology	10
MS in Ophthalmology	8
MS in Orthopaedics	6
MD in Paediatrics	8
MD in Pathology	4
MD in Pharmacology	4
MD in Physical Medicine and Rehabilitation	2
MD in Physiology	3
MD in Psychiatry	5
MD in Radiodiagnosis	5
MD in Transfusion Medicine	4
MDS in Oral and Maxillofacial Surgery	2
MDS in Paediatric and Preventive Dentistry	2
Total	141

## New Course/Increase in number of Seat approved in the 7<sup>th</sup> / 8<sup>th</sup> Academic Committee Meeting

### New MD/MS/MDS Course - Non-Sponsored Seats

Course	Annual Intake
MD in Radiotherapy	2

### Increase in number of seats in existing course

Course	Annual Intake with enhancement	No. of enhanced Seats
MD in Pathology	09	5

### Approved Sponsored Seats in Existing MD/MS/MDS Courses

Course	Annual Intake
MD Anaesthesiology	01

Course	Annual Intake
MD General Medicine	01
MD Paediatrics	01
MD Emergency Medicine	01
Total no. of MD/MS/MDS seats	152

## DM/MCh Courses

Course	Annual Intake
DM Cardiology	2
DM Clinical Infectious Diseases	2
DM Clinical Pharmacology	2
DM Nephrology	2
DM Paediatric Critical Care	2
DM Paediatric Emergency Medicine	2
DM Pulmonary Medicine	2
MCh Cardiovascular and Thoracic Surgery	2
MCh Head-Neck Surgery & Oncology	2
MCh Joint Replacement and Reconstruction	2
MCh Neurosurgery	3
MCh Paediatric Surgery	2
MCh Plastic Surgery and Reconstructive Surgery	2
MCh Urology	2
Total	29

## New Course/Increase in number of Seat approved in the 7<sup>th</sup> / 8<sup>th</sup> Academic Committee Meeting

### New DM/MCh Course

DM Medical and Forensic Toxicology	2
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### Increase in number of seats in existing DM/MCh course

Course	Annual Intake with enhancement	No. of enhanced Seats
DM in Pulmonary Medicine	04	2
Total no. of DM/MCh seats		33

## Post Doctoral Certificate Courses (PDCC)

Course	Annual Intake
PDCC in Cardiac Anaesthesia	3
PDCC in Critical Care	4
PDCC in Neurosurgical Anaesthesia	3
PDCC in Pain and Palliative Care	2
PDCC in Neonatology	4
PDCC in Paediatric Cardiac Critical Care	2
PDCC in Cardiothoracic and Vascular Imaging & Interventional Radiology	2
Total	20

## New Post-Doctoral Certificate Courses (PDCC) approved in the 7<sup>th</sup> / 8<sup>th</sup> Academic Committee Meeting

Course	Annual Intake
PDCC in Obstetric Anaesthesia	2
PDCC in Paediatric Anaesthesia	1
PDCC in Onco-Anaesthesia	2
PDCC in Cardiac Critical Care Medicine	2
PDCC in Breast Surgery	2
PDCC in High-Risk Pregnancy	2
PDCC in Gynaecological Endoscopy	2
PDCC in Paediatric Haematology and Oncology	1
PDCC in Medical Retina	1
Total no. of PDCC seats	35

## Ph.D.

Course	Annual Intake
Biochemistry	2
Community & Family Medicine	2
Forensic Medicine & Toxicology	2
Nuclear Medicine	2
Orthopaedics	2
Pathology & Lab Medicine	2
Physiology	2
Total	14

## New Ph.D Courses approved in the 7<sup>th</sup> / 8<sup>th</sup> Academic Committee Meeting

Course	Annual Intake
Anatomy	2
General Medicine	2
Microbiology	2
Total no. of PhD seats	20

Following New Courses have also been approved by the Academic Committee in the Central Medical Record Department, AIIMS Raipur:

Course	Annual Intake
Medical Record Officer (MRO)	15 participants per batch
Medical Record Technician (MRT)	15 participants per batch

As on 31.03.2022, the number of Undergraduate students/PG Students/Ph.D. Scholars pursuing the various courses are as under:

Course	No. of students pursuing the course
MBBS	568
B.Sc. (Hons.) Nursing	264
MD/MS/MDS	304
DM/MCh	36
PDCC	15
M.Sc. Nursing-Psychiatric Nursing	07
Ph.D.	05
Master of Public Health	13
Paramedical courses	91

## Details of the courses:

### MBBS

Batch	Annual Intake	Students admitted	Studying in	Exam scheduled in	Remark
2012	50	50	----	----	Completed the course.
2013	100	100	----	----	Completed the course.
2014	100	89	----	----	Completed the course.
2015	100	100	----	----	Completed the course.
2016	100	100	----	----	Completed the course.
2017	100	100	----	----	Posted for one year compulsory rotational internship from January 2022.
2018	100	100	3 <sup>rd</sup> Professional	December 2022	----

Batch	Annual Intake	Students admitted	Studying in	Exam scheduled in	Remark
2019	100	100	3 <sup>rd</sup> Professional Part I	January 2023	----
2020	125	125	2 <sup>nd</sup> Professional	January/ February 2023	----
2021	125	124 (till 31.03.2022)	1 <sup>st</sup> Professional	January/ February 2023	Counselling under process

The MBBS and B.Sc. (Hons.) Nursing students of AIIMS Raipur are pursuing postgraduate courses at various esteemed central, state medical colleges in India and also in foreign universities. The postgraduate students of AIIMS Raipur are also pursuing the Superspeciality Courses in reputed Institutes.

### B.Sc. (Hons.) Nursing

Batch	Annual Intake	Students admitted	Studying in	Exam scheduled in	Remark
2013	60	60	----	----	Completed the course.
2014	60	60	----	----	Completed the course.
2015	60	60	----	----	Completed the course.
2016	60	60	----	----	Completed the course.
2017	60	60	----	----	Completed the course.
2018	60	60	4 <sup>th</sup> Year	July 2022	----
2019	60	60	3 <sup>rd</sup> Year	September/October 2022	----
2020	75	75	2 <sup>nd</sup> Year	September/October 2022	----
2021	75	71 (till 31.03.2022)	1 <sup>st</sup> Year	January/February 2023	Counselling under process

The Five batches of B.Sc. (Hons) Nursing course (admitted in 2013, 2014, 2015, 2016 and 2017) have been offered one year contractual employment in AIIMS Raipur.

### MD/MS/MDS Courses

Session	Annual Intake	Students admitted	Studying in	Exam scheduled in
July – 2017	35	09	----	Completed the course
Jan – 2018		25	----	Completed the course
July – 2018	71	22	----	Completed the course
Jan – 2019		42	----	Completed the course
July – 2019	92	48	3 <sup>rd</sup> year	July - 2022
Jan - 2020		51	3 <sup>rd</sup> year	Dec. 2022/Jan – 2023
July – 2020	127	44	2 <sup>nd</sup> year	June/July - 2023
Jan - 2021		75	2 <sup>nd</sup> year	Jan/Feb – 2024
July – 2021	148	54	1 <sup>st</sup> Year	June/July 2024
Jan - 2022		81	1 <sup>st</sup> Year	Dec. 2024/Jan 2025

**M.Sc. Nursing – Psychiatric Nursing**

Session	Annual Intake	Students admitted	Studying in	Exam scheduled in
July – 2018	02	02	----	Completed the course
July – 2019	04	04	----	Completed the course
July – 2020	04	04	2 <sup>nd</sup> Year	July/Aug. – 2022
July – 2021	04	04	1 <sup>st</sup> Year	July/Aug. – 2022

**Performance of students in examination 2021-22**

Name of Exam	No. of Students Appeared	No. of Students passed	Passing Percentage
MBBS 1st Prof	118	109	92.37%
MBBS 2nd Prof	103	101	98.05%
MBBS 3 <sup>rd</sup> Prof	101	79	78.21%
MD/MS (July 2018 batch)	22	20	90.90%
MD/MS (Jan 2019 batch)	33	33	100%
B.Sc. (Hons) Nursing 1 <sup>st</sup> Year	75	70	93.33%
B.Sc. (Hons) Nursing 2 <sup>nd</sup> Year	58	53	91.37%
B.Sc. (Hons) Nursing 3 <sup>rd</sup> Year	58	56	96.55%
B.Sc. (Hons) Nursing 4 <sup>th</sup> Year	60	58	96.66%
M.Sc. Nursing-Psychiatric Nursing 1 <sup>st</sup> year	04	04	100%
M.Sc. Nursing-Psychiatric Nursing 2 <sup>nd</sup> year	03	03	100%

# ADMINISTRATION

## Deputy Director (Administration)

Shri Anshuman Gupta

## Senior Administrative Officer

Shri V. Sitaramu (09.07.2021 till date)

## Administrative Officer

1. Shri V. Sitaramu (01.04.2021 to 31.05.2021)
2. Shri Pankaj Kumar Upadhyay (Addl Charge) (01.06.2021 to 22.10.2021)
3. Shri A. Venkat Ramana (02.02.2022 till date)

## Stores Officer (Central Stores)

1. Shri Pankaj Kumar Upadhyay (23.10.2020 to 31.05.2021 and  
23.10.2021 to 24.12.2021)
2. Shri V. Sitaramu (Addl Charge) (01.06.2021 to 08.07.2021)
3. Shri V. Sitaramu (Senior Procurement-cum-stores Officer) (09.07.2021 to 22.10.2021 and  
25.12.2021 till date)

## Stores Officer (Hospital Stores)

1. Shri Debashish Bhadra (Addl Charge) (01.04.2021 to 01.02.2022)
2. Shri A. Venkat Ramana (Addl Charge) (02.02.2022 till date)

The General Administration, including Personnel and Establishment, Security, Estate, matters related to Engineering Services Department, Stores, Public Relations activities and Rajbhasha Department of the Institute are controlled and supervised by the Deputy Director (Administration). There are various branches looking after the above-mentioned areas.

Responsibilities of Establishment Section and General Administration include appointments, arranging meeting of the statutory committees,

management of estate and property, purchase of equipment, materials and consumables, security arrangements, employees' welfare, handling matters pertaining to RTI, Hindi Cell, PG Portal, Sexual Harassment, etc.

The total sanctioned staff of the Institute is 4089 which includes staff of all Centers/Main Hospital/D.O. The number of group-wise sanctioned strength and staff in-position as on 31.03.2022 is mentioned below:

S. No	Category/Group	Sanctioned Strength	In-position
1.	Faculty members	305	160
2.	'A'	930	506
3.	'B'	2228	1212
4.	'C'	626	768
	Total	4089	2646

PG PORTAL	
Letters received	Letters disposed of
60	60

RTI CELL		Sexual Harassment Complaints	
Letters received	Letters disposed of	Letters received	Letters disposed of
837	837	2	2

## Department of Public Relations

### Public Relations Officer

Shiv Shankar Sharma

### Highlights

The department of Public Relations, AIIMS Raipur started its function in September 2019. The department has an important role of creating trust and improving the brand value of AIIMS among the stake holders. Media related activities including updating social media (Facebook, Twitter, Website and all Social Media) carried out regularly. The department has been successfully publishing

quarterly e-magazine Arogyam of AIIMS, Raipur which provides information about latest activities in the Campus. Department of Public Relations has been instrumental in publishing, editing and translating the Annual Report of the Institute. The department has been co-ordinating and making arrangements for the VIP visitors. The Department is also releasing different Advertisements, working as nodal office for monthly progress reports to the MoHFW, Grievance redressal and vehicle management of the Institute.



# RECRUITMENT CELL

As trained and talented human resources are vital element for organisations across spectrum to attain objectives, AIIMS Raipur strives to attract and recruit best talent across country to meet the need and aspirations of citizens for world class tertiary level healthcare services and to attain self-sufficiency in medical education, training and research of global standards.

Aligning with the aim, AIIMS Raipur has a dedicated Recruitment Cell to attract and recruit best talent across country in a transparent and fair manner. The Recruitment Cell is entrusted with the responsibility of carrying out recruitment to all Faculty and Non-faculty posts at the Institute as per the Government of India rules. In the year 2021-22, several recruitment drives for both Faculty and Non-faculty posts have been conducted. The details of these drives are given in the succeeding paragraphs. Cadre-wise vacancies advertised in 2021-22 are as follows:-

Total 568 vacancies were advertised in the year 2021-22, for both Faculty and Non-faculty posts these includes Faculty (236), Nursing Officer (292, through NORCET-2021), Prof. cum Principal College of Nursing (1), Lecturer in Nursing (5), Non-Faculty (25, Deputation), Medical Physicist (3), Consultant (4, Civil, Electrical and A/C & R) and Nuclear Medicine Technologist (2).

**Recruitment by Promotion:** In addition to the recruitment on direct recruitment and deputation basis, recruitment to senior level Faculty and Non-faculty posts by promotion. The details of these promotional posts are as follows:-

**a. Promotion to Faculty Posts under APS:** Interviews for appointment to Faculty posts of Professor, Additional Professor and Associated Professor in 21 various departments by promotion under Assessment Promotion Scheme (APS) were conducted by the Standing Selection Committee on 4<sup>th</sup> and 5<sup>th</sup> March 2022. The summary of these promotions under the APS are as follows:

S. No.	Promotional Post	Candidates Appeared	Candidates Promoted
1.	Professor	3	2
2.	Additional Professor	12	8
3.	Associate Professor	17	17
Total		32	27

**b) Promotion to various posts in Nursing Cadre:** DPC proceedings were convened for promotion to the posts of Deputy Nursing Superintendent, Assistant Nursing Superintendent, and Senior Nursing Officer. The details of these promotions are as follows:-

S. No.	Name of the Promotional Post	No. of candidates promoted
1.	Dy. Nursing Superintendent	16
2.	Asst. Nursing Superintendent	43
3.	Senior Nursing Officer	173
Total recruitment/appointment by promotion		232

## Faculty Recruitment

Recruitment to the post of Professor-cum-Principal, College of Nursing is in process. Interviews were conducted on 20<sup>th</sup> - 21<sup>st</sup> December 2021.

Recruitment to 05 posts of Lecturer in Nursing (Group A) for College of Nursing is also in process. Interviews were conducted on 22.12.2021.

Process of filling up of all vacant Faculty posts of Professor, Additional Professor, Associated Professor and Assistant Professor is in progress. Advertisement for the same was published on 02.11.2021 with the last date of online application as 25.12.2021.

## Non-faculty Recruitment:

- Interviews for recruitment to various group 'A' and 'B' non-faculty posts on deputation basis vide advertisement dated 10.02.2021

were conducted on 12.06.2021. Result of the interviews was declared on 18.06.2021.

- Recruitment to 292 posts of Nursing Officer on direct recruitment basis is under process through NORCET-2021. Offer of appointment to 230 eligible candidates in round-1 has been issued. Remaining 62 vacant posts are expected to be filled up in the round-2 of the ongoing NORCET-2021.
- Recruitment to 03 posts of Medical Physicist in the department of Radiotherapy on Contractual basis conducted on 16.03.2022. Offer of appointment has been issued to the selected candidates.
- Recruitment to the temporary posts of Consultants

(02 Civil Engineering, 01 Electrical Engineering) and Deputy Consultant (01, A/C & R) on contractual basis was conducted on 26.03.2022. Offer of appointment has been issued to the selected candidates.

#### **Inspection by the Hon'ble Member of NCSC:**

Shri Subhash Ramnath Pardhi, Hon'ble member of the National Commission for Scheduled Caste (NCSC), Government of India visited AIIMS Raipur on 27.12.2021. During his visit to the Institute, he inspected reservation rosters for various posts and reviewed the measures being taken by AIIMS Raipur in recruitment processes with respect to admissible benefits i.e. reservation and relaxation to SC/ST as per the Govt. of India rules.

# RAJBHASHA CELL

## Chairman

**Prof.(Dr.) Nitin M. Nagarkar**

Departmental Official Language Implementation Committee

## Deputy-Director (Administration)

Mr. Anshuman Gupta

## Sr. Hindi Officer (I/C) and Public Relations Officer

Mr. Shiv Shankar Sharma

## Junior Hindi Translator

Mr. Sharukh Khan

Mr. Madhuragi Shrivastava

## Members

All HoDs and Officers

## Activities and Programmes organized by Rajbhasha Cell during financial year 2020-21:-

1. Quarterly meeting of Departmental Official Language Implementation Committee was organized on 9<sup>th</sup> June, 14<sup>th</sup> September, 31<sup>st</sup> December, 2021 and 28<sup>th</sup> March, 2022. Prof. (Dr.) Nitin M. Nagarkar Director, AIIMS Raipur and Chairman, Departmental Official Language Implementation Committee reviewed the progress done under the official language act and directed all the Hods to follow the instructions given by Rajbhasha Department, Ministry of Home Affairs, Govt. of India.
2. A workshop was organized by Rajbhasha Cell on the topic '**AZADI KA AMRIT MAHOTSAV: RAJBHASHA HINDI KI DISHA AVAM DASHA**' on 14<sup>th</sup> September, 2021. The Chief Guest in this workshop was Prof. Baldev Bhai Sharma, Vice-Chancellor, Kushabhau Thakre Journalism and Mass Communication University, Raipur and special guest was Shri Surendra Rawal, an eminent educationist of Hindi. Hindi-Pakhwara was organized in AIIMS, Raipur from 01-14 September, 2021. Different competitions like Medical Terminology, Administrative Terminology, Dictation, Essay, Extempore, Self-Written Poetry
3. Hindi Typing Workshops were organized by Rajbhasha Cell on 19-23 July and 13-17<sup>th</sup> December, 2021. These Hindi Typing Workshops were organized by Rajbhasha Cell to promote official use of Hindi in which total 22 participants were provided training. Another training workshop was organized on 8<sup>th</sup> March, 2022 on the topic '**Varshik Prativedan aur Timahi Pragati Report**'.
4. Annual Report of financial year 2020-21 was completely translated by Rajbhasha Cell, AIIMS Raipur. In addition to it, Rajbhasha Cell has translated documents, letters, circulars, reports, thesis, consent forms, Scientific Articles and other documents received time to time from various departments.

Rajbhasha Cell, AIIMS, Raipur ensures the observance of various compulsory provisions under the Official Language act. Following are the steps taken for it.

1. New editions of Half-yearly Hindi Magazine 'Spandan' of AIIMS Raipur was prepared. Sixth edition (April– September 2021) and Seventh edition (October 2021-March 2022) were

circulated among various departments through online mode.

2. In order to promote official work in hindi, AIIMS, Raipur awarded 10 Rajbhasha Protsahan Puraskar on 14<sup>th</sup> September,2021 to officers and employees who have worked maximum in Hindi.
3. On the entrance of Medical College and Hospital premises, Hindi Quotations and Administrative Terminology are being written on continual basis to encourage employees to work in Hindi.
4. In order to promote Hindi in the hospital premises, quotations have been put at various places in the medical college building. Also, information regarding various programs is being displayed through LED display in the registration hall.

### Documents issued during 2021-22 under section 3(3) of Official language act, 1963

1.	Total no. of documents issued	3305
2.	Total no. of documents issued bilingually	3305
3.	No. of documents issued only in English	0

### Letters received in Hindi during 2021-22 (Rule 5 of Official Language Rules,1976)

1.	Total no. of letters received	5246
2.	Out of these, no. of letters replied to in Hindi?	3305
3.	No. of letters replied to in English?	0
4.	No. of letters not to be replied to?	1380

### No. of letters received in English but replied in Hindi during 2021-22

	No. of letters received in English	Out of these, no. of letters replied to in Hindi?	Out of these, no. of letters replied to in English?	No. of letters not to be replied to?	Percentage of letters replied in Hindi
	1	2	3	4	5
From region 'A'	16411	5858	6833	3720	35.69%
From region 'B'	220	32	151	37	14.54%

### Details of total letters issued during 2021-22

	In Hindi	In English	Total no. of letters issued	Percentage of letters issued in Hindi
	1	2	3	4
To region 'A'	6809	5140	11949	56.98%
To region 'B'	100	180	280	35.71%
To region 'C'	95	407	502	18.92%

### Notings in Hindi on files/documents during 2021-22

No. of pages of Hindi noting	51876
No. of pages of English noting	40616
Total No. of pages of noting	92492
Percentage of notings in Hindi with respect to English	56.08%

# Security Office

## Security Officer

Ms. Upasona K. Singh

The security establishment, AIIMS Raipur is committed towards peripheral and perimeter security of the main campus of AIIMS, Raipur, its annexes and residential campus. It makes consolidated efforts to provide security services at the intersection of patients/public and medical practitioners, other dedicated staff working for the institution. It controls, regulates and thereby up-keeps the safe access of patients and public to services offered by the premier institution.

The security office is capacitated by experience of officers on deputation as well as ones recruited by the institution. It has a personnel base of around 350 (outsourced), which operates in shifts of 24x7/365, dedicated to day to day/routine security screening at gates, corridors, wards, managing crowd in high footfall areas, route lining, etc. It also looks after bandobast and VIP duties on special occasions. It engages in securing safety of and around critical installations. A dedicated fire fighting team monitors

fire situations, hazards throughout the campus. The security team is motivated to perform well through skill up-gradation programmes, regular mock drills.

The state of security art is upgrading itself in the ever expanding AIIMS, Raipur since its inception. CCTV cameras have been installed to monitor in real time the sensitive areas of the premises with the help of two equipped CCTV control rooms in a professional, ethical and legal manner through standard operating procedures.

Adequate participation of women is being ensured by the office in concern for various tasks- at office, field sides and CCTV control rooms.

The security setup is evolving with the adoption of new technologies and operational techniques, logistics. It is enriching itself by ceaseless collaboration with other stakeholders working for the institution. The team is committed to polite, firm and prompt security services to all.

# FINANCE & ACCOUNTS

## FINANCIAL ADVISOR

Shri B. K. Agrawal

## FINANCE AND CHIEF ACCOUNTS OFFICER

Shri Vinod. G

## ACCOUNTS OFFICERS

Shri B.N.Verma

Shri J. Sajit Nair

Shri Vishal Kumar

Shri Debasish Bhadra

The Finance & Accounts Wing of AIIMS Raipur is headed by the Financial Advisor who is assisted by 01 FC&AO, 4 Accounts Officers; and 01 Assistant Accounts Officer, a number Junior Accounts Officer and Account Assistants. Each branch is headed by an Account Officer with supportive staffs. Broadly the Finance & Accounts Wing looks after the Budget Management, Cash Flow, Expenditure Control, Financial Vetting & Concurrence of procurement proposals as per GFR, Payments including Salary, third party payments like vendor bills related to procurements, payments of bills related to Project Work, Payments to HITES/HLL, HEFA Loan Managements, Preparation of Annual Accounts & Financial Statements, CAG & Internal Audit compliances etc. A brief description of duties & responsibilities assigned to Finance & Accounts Wing are as below:

- Preparation of Annual Budget of the Institute.
- Receiving Grant-in-Aid for Salary, General and Capital expenditure from the Administrative Ministry.
- Budget Management, Cash Flow Management and Expenditure Control.
- HEFA Loan Managements.
- Management of Hospital Receipts.
- To accord financial concurrence as per the provisions of GFR on matters related to procurement of the Institute.
- To ensure that proper maintenance of books of accounts and schedules as per the provisions of Central Accounting Manual (CAM) and directions issued by Comptroller Auditor General (CAG)/ Chief Controller of Accounts (CCA)
- To prepare pay bill of employees & other necessary records as per the provisions of income tax, sales tax, service tax & other statutes.
- To prepare the financial statements (receipts & payments accounts, income & expenditure account and balance sheet).
- To get the various Audits done like CCA audit, CAG audit and to submit compliance/ATN.
- Handling of New Pension Schemes, GPF and PFMS
- Scrutiny of project related works and other bills.
- Submission of requisite receipt and expenditure details to PMSSY division of Ministry of Health & Family Welfare.

# ENGINEERING WING

## Superintending Engineer

Lt. Col. Rajesh Singh

### Highlights:

All India Institute of Medical Sciences, Raipur has been established under PMSSY. To complete the project separate contracts for building infrastructure works have been awarded in four packages namely, Construction of Medical College & Hostel Complex, Hospital Complex, Electrical Services and Estate Services.

As per master plan Institute shall be housed in a 100 Acres campus with the requisite facilities as per Medical Council of India norms. The campus,

besides the built up area of the hospital, hostels, residential areas etc. shall also have landscape open areas, parking spaces, areas of recreational activity. The facilities being proposed are to be used by the economically weaker section of the Chhattisgarh State and whole country.

The Project Cell of AIIMS, Raipur mainly dealing with Construction activities of Package I, II, III and IV & New Civil & Electrical Works as per requirement including maintenance works at AIIMS, Raipur. Details are mentioned below:

## BRIEF OF ALL PACKAGES (as on 31.03 2022)

Status of construction in AIIMS, Raipur including Arbitration / Court case (As on 31.03.2022) is mentioned below:

AIIMS PC	Package	Agency	Approved Contract Value (Rs.cr)	Physical Progress of construction (%)	Actual payment till date	Date of Completion/ EDC
HSCC (INDIA) LIMITED	Pkg - I Medical College	M/s Punj Lloyd Ltd.	115.21	100	128.30	30.04.2022
	Pkg - II Hospital Complex	M/s B.L. Kashyap & Sons Ltd.	262.40	100	317.01	30.04.2022
	Pkg - III Electrical Services	M/s Ahluwalia (Contractcs) India Ltd.	35.86	100	36.59	07.05.2021
	Pkg - IV Estate Services	M/s B.L. Kashyap & Sons Ltd.	63.33	100	61.96	30.04.2022

### Note:

Virtual Completion Certificates to Package I, II & IV have been issued by AIIMS, Raipur.

## PACKAGE – I

### MEDICAL COLLEGE & HOSTEL COMPLEX

Contractor	:	M/s Punj Llyod Ltd.
Contract Amount	:	Rs. 115.21 Crore
Date of Commencement	:	30 <sup>th</sup> May 2010
Original Date of Completion	:	29 <sup>th</sup> Aug 2011
Expected Date of Completion	:	30.04.2022
Physical Progress	:	100 %
Fund released so far	:	128.30 Crores

### Auditorium



### BRIEF SCOPE OF WORK

S. No	NAME OF BUILDING	PATTERN	TOTAL FLOOR (SQM)
1	Medical College	LG+G+2	25416.00
2	Nursing College	G+3	4300.00
3	Auditorium	LG+G+1	2854.00
4	Nurses Student Hostel	G+6	5914.00
5	Nurses Hostel including Kitchen/Dining	G+8	7920.00
6	Girls Hostel	G+7	3161.00



S. No	NAME OF BUILDING	PATTERN	TOTAL FLOOR (SQM)
7	PG & Interns Hostel incl Recreation Hall	G+7	8392.00
8	Boys Hostel including Kitchen/Dining	G+5	6408.00
9	Resident Hostel including Recreation Hall	G+5	6094.00
10	Animal House	G	150.00
11	Electric Sub Station (No.6)	G	163.00
	Total		70772.00

## PACKAGE – II

### HOSPITAL COMPLEX

Contractor	:	M/s B L Kashyap & Sons Ltd.
Contract Amount	:	Rs. 262.40 Crores
Date of Commencement	:	11 <sup>th</sup> Sep 2010
Date of Completion	:	10 <sup>th</sup> Sep 2012
Expected Date of Completion	:	30.04.2022
Physical Progress	:	100 %
Fund released so far	:	317.01 Crores

### BRIEF SCOPE OF WORK

S. No	NAME OF BUILDING	PATTERN	TOTAL FLOOR (SQM)
1	Hospital Building	LG+G+4	86970.00
2	Tauma Centre	LG+G+3	7207.00
3	Ayush and PMR	LG+G+2 LG+G+3	3384.00 4377.00
4	Laundry	G	733.00
5	Medical Gas Plant	G	223.00
6	Boiler	G	58.00
7	Electric Sub Stn-2 & AC Plant	G	804.00
8	Work shop	G+1	962.00
9	Bio Medical Waste Plant	G	457.00
10	Garage & Office Maintainance	G	432.00
11	Main Receiving Station & Sub Stn	G	1353.00
12	LPG Store	G	36.00
13	Incinerator	G	113.00
	Total		107109.00

## PACKAGE – III

### ELECTRICAL SERVICES

Contractor	:	M/s Ahluwalia Contracts (India) Ltd.
Contract Amount	:	Rs. 41.20 Crore*
SITC	:	Rs. 35.86 Crore
O & M	:	Rs. 5.34 Crore
Start Date	:	19 <sup>th</sup> Aug 2011
Completion Date	:	18 <sup>th</sup> Dec 2012
Date of Completion	:	07.05.2021
Physical Progress	:	100 %
Fund released so far	:	36.59 Crores

## PACKAGE – IV

### ESTATE SERVICES

Contractor	:	M/s B.L. Kashyap & Sons Ltd.
Contract Amount	:	Rs. 63.33 Crore
Start Date	:	02 <sup>nd</sup> Feb 2012
Completion Date	:	01 <sup>st</sup> Feb 2013
Expected Date of Completion	:	30.04.2022
Physical Progress	:	100 %
Fund released so far	:	61.96 Crores

## STATUS OF CIVIL (Non DPR Works) as 31/03/2022

### Including the work assigned to CPWD

#### Construction of Academic Block & Administrative Block

Month	Cumulative Target (%)	Cumulative Physical Progress (%)	Cumulative Financial Progress (%)	Task Status
31.03.2022	100	48.81	54.20	Under Construction

#### Centre of Excellence

Month	Cumulative Target (%)	Cumulative Physical Progress (%)	Cumulative Financial Progress (%)	Current Month Expenditure (Cr.)	Task Progress	
					Task Status (select any one)	Remark
31.03.2022	100	NIL	NIL	NIL	pending	Presentations of preliminary concept drawings have been made and in the process of being finalized after obtaining inputs/ suggestions/requirements from the experts of proposed departments feedback/inputs.

## Development of Genetic Lab, Medical College

Month	Cumulative Target (%)	Cumulative Physical Progress (%)	Cumulative Financial Progress (%)	Task Progress
31.03.2022	100	100	100	Completed

## Residential Complex Phase-II

Month	Cumulative Target (%)	Cumulative Physical Progress (%)	Cumulative Financial Progress (%)	Current Month Expenditure (Cr.)	Task Progress	
					Task Status (select any one)	Remark
31.03.2022	NIL	NIL	NIL	NIL	Pending	Compliance of direction of MoHFW has been carried out and file has been processed for direction

## School of Public Health, Naya Raipur

Month	Cumulative Target (%)	Cumulative Physical Progress (%)	Cumulative Financial Progress (%)	Current Month Expenditure (Cr.)	Task Progress	
					Task Status (select any one)	Remark
31.03.2022	NIL	NIL	NIL	NIL	Pending	Allocation of 3% of fund for pre administrative planning has been forwarded

## Rural Health Training Centre, Kurud

Month	Cumulative Target (%)	Cumulative Physical Progress (%)	Cumulative Financial Progress (%)	Current Month Expenditure (Cr.)	Task Progress	
					Task Status (select any one)	Remark
31.03.2022	NIL	NIL	NIL	NIL	Pending	In SFC meeting the boundary wall work is approved and accordingly it has been decided to write a letter to ministry for availability of fund.

# Hospital and Department of Central Medical Records

## Deputy Medical Superintendents

Dr. Nitin Kumar Borkar

Dr. Tridip Dutta Baruah

Dr. Ramesh Chandrakar

## Medical Record Officer Cum Sub- Registrar (Birth & Death)

Shri Kalleshwara I.T

## About the Hospital:

### OPD SERVICES

Multi-specialty OPD services including Medicine, Cardiology, Surgery, Gynaecology & Obstetrics, Paediatrics, Pulmonary Medicine, Orthopaedics, ENT, Ophthalmology, Dermatology, Psychiatry, Dentistry, Paediatric Surgery, Burns & Plastic Surgery, Nephrology, CTVS, Ayurveda, Physiotherapy, Diet, Clinic, Neurosurgery, Nuclear Medicine, Physical, Medicine & Rehabilitation (PMR), Neurology are functioning regularly. Online OPD registration facility (ORS) is available for ease of patient registration. During this period ending by March-2022, 4,45,200 patients attended various OPD services of the institute.

### INDOOR SERVICES:

The indoor patient departments (IPD) of the hospital are located in the Block-1(A – A1), Trauma Centre and AYUSH & PMR building. Total 960 number of beds are functional. The beds are used by the patients of all OPD departments running at AIIMS Raipur. 28 Modular operation Theatres and 13 minor operation theatre are fully functional. The operating facilities are available for Burns & Plastic Surgery, CTVS, Dentistry, ENT, General Surgery, Obstetrics and Gynaecology, Ophthalmology, Orthopaedics, Paediatrics Surgery and Neurosurgery.

### DIAGNOSTIC SERVICES:

X-ray, ultrasound, 128-slice CT scan, 256-slice CT scan, DSA lab, Ultrasound machines, OPG

machine, Mammography machine, CR and DR, Clinical Biochemistry, Pathology, and Microbiology investigations, Cath-Lab Angiography, MRI are available round the clock within the hospital. Specialized audiology investigations have also been started.

In AIIMS, Raipur Department of central medical records regularly furnishes the data related to OPD, IPD, Surgery details, manpower and other activities of AIIMS Raipur to MoHFW. MRD also uploads its progress report on the portal of PMSSY Division regularly.

The department introduced NIC (HMIS) & ORS (Online Registration System) since 18/10/2016 & 01.07.2019 and also introduced (C-DAC) software. Medical Records Department has a centralized system for preserving the Medical Records of In-Patients. Using the Serial Numbering System a unique number is assigned to a new patient which is called CR (Central Registration Number)/UHID Number.

Key Role Services of the Department of Central Medical Records are: Electronic Medical Record (EMR)/ Electronic Health Record (EHR), Digitalization of Medical Records, Installed state of the art Electronic Motorized Compactor for Medical Records, Authorized to issue Birth and Death Certificates, Maintained all records/Medico-Legal Cases as per norms, Medical Audit and Statistical Studies, Conducted CMEs for awareness of Medical Records, Online facilitation for Registration, Billing etc, Death review meeting / covid-19 death review meeting & Facilitate all types Insurance Claims.

## Hospital Statistics

S. No.	Particular	Numbers
1	Out Patients attendance	4,45,200
2	New Cases	2,48,690
3	Old Cases	1,86,712
4	Telemedicine	9,798
5	Daily Average No. of Out Pt. attendance	1,494
6	Out Pt. attendance in Casualties	30,337
7	Daily Average No. of Out Pt. attendance in casualties	83
8	Admissions	30,684
9	Discharges	30,374
10	Daily Average No. of occupied In Pt. attendance	581
11	Daily Average Bed Occupancy Rate	62%
12	Deliveries conducted	1,573
13	Live Births	1,642
14	Still Births	62
15	Deliveries FTND	619
16	Deliveries LSCS	954
17	X-Ray(Including OPD & IPD)	1,11,186
18	USG(Including OPD & IPD)	10,107
19	CT Scan(Including OPD & IPD)	13,453
20	MRI(Including OPD & IPD)	4,165
21	Total No. of Investigations(Including Biochemistry, Microbiology, Pathology and Radiology OPD & IPD)	17,31,439
22	Colour Doppler	3,057
23	Angiography/Angioplasty	479 / 139
24	Investigations in Biochemistry(Including OPD & IPD)	15,37,745
25	Investigations in Microbiology(Including OPD & IPD)	1,93,694
26	Investigations in Pathology(Including OPD & IPD)	2,63,688
27	Investigations in Radiology (Including OPD & IPD)	1,49,676
28	Operations performed	13,880
29	Major Surgeries	7,510
30	Minor Surgeries	6,370
31	Death( including brought dead – 256)	2,661
32	Death below 48 Hours	1,158
33	Death above 48 Hours	1,503
34	Gross Death Rate	6.00
35	Net Death Rate	2.97

S. No.	Particular		Numbers
36	Forensic Medicine and Toxicology	Medico Legal Cases Handled	2,386
		Medico Legal Autopsies Performed	326
		Embalming of Autopsied Bodies	16
		COVID Body Handed Over	774
37	Brought dead		256
38	Insurance claims		164
39	Files Issued Re-Admission Patients and Thesis purpose		2,326
40	RNTCP Patients		721 (Confirmed Cases)
41	ICTC Patients		12968 ( HIV Positive : 56)
42	ORS (Online Registration System )		2,30,109
43	Audiometry	Audiology	3601
		Speech language	165
44	ECHO		5,465
45	PMR(Physiotherapy )		15,364
46	Ayushman Bharat Patient		18,363

## Bed Occupancy

Month	Days of the Month	No. of Beds	Total Admission	Total no. of patients stayed during the month	Bed Occupancy %	Average patients staying in the hospital per day	Average patients admitted per day
Apr-21	30	900	2,648	18,501	26.36	211	35
May-21	31	900	2,080	15,095	39.59	317	44
Jun-21	30	900	1,783	16,004	45.63	365	44
Jul-21	31	900	2,206	17,338	51.1	409	56
Aug-21	31	960	2,491	17,979	63.75	510	63
Sep-21	30	960	2,750	18,686	70.29	562	65
Oct-21	31	960	2,666	18,940	56.21	450	61
Nov-21	30	960	2,675	17,413	55.36	498	65
Dec-21	31	960	2,885	18,588	58.96	531	76
Jan-22	31	960	2,609	15,811	59.58	536	75
Feb-22	28	960	2,811	17,383	55.97	504	75
Mar-22	31	960	3,080	20,278	66.83	601	93

# BLACK FUNGUS (MUCORMYCOSIS): EPIDEMIC IN ERA OF COVID-19 PANDEMIC

Dr. Ripu Daman Arora, Additional professor,  
Dr. Satish Satpute, Associate professor  
Department of ENT & HNS, AIIMS, Raipur

COVID-19, a Pandemic like no other faced by humanity in recent times, brought with it a plethora of critical challenges related to the disease as well as its treatment strategy. Having significantly affected the population with Comorbidities (Hypertension, Diabetes mellitus, CKD), the disease also resulted in an increased usage of steroids and immunomodulators which invited secondary opportunistic co-infections like Mucormycosis

India reported the highest number of Mucormycosis cases during the 2<sup>nd</sup> wave of the COVID-19 pandemic and our institute had a significant share of cases from Central India with 280 cases diagnosed and managed at our center from May-November 2021.

Mucormycosis commonly referred to as the “Black fungus” is caused by the mucorales group of fungi. The disease extent was varied with involvement of nose- paranasal sinuses, palate, orbit and intracranial extension and it greatly affected the management, operability and prognosis. In few cases, the disseminated fungemia and involvement of visceral organs contributed to a dismal prognosis despite the best efforts.

Mucormycosis cases started coming to our hospital from the first week of May 2021. As the cases started to rise, a Mucormycosis Task Force was formed under the leadership of our Director Dr. (Prof.) Nitin M. Nagarkar for comprehensive management of Mucormycosis patients. The team included otorhinolaryngologists, head & neck surgeons, maxillofacial surgeons, ophthalmologists, neurosurgeons, anaesthetists, radiologists, microbiologists, physicians, endocrinologists, nursing and paramedical staff.

A special Out Patient clinic was set up to triage the patients with Mucormycosis. The patients were initially screened in the Casualty Department.

Symptoms and signs such as nasal pain, facial pain, facial pressure, nasal discharge, nasal crusting, difficulty in breathing through the nose, nasal bleeding, dental pain, loosening of teeth, discoloration of the palate, diplopia, loss of vision, proptosis, loss of cheek sensation, reduced extraocular movements, difficulty in breathing, fever, irritability, altered sensorium, previous history of COVID-19 infections, no COVID immunization, history of steroid and supplemental oxygen use were considered as high risk. These patients were thoroughly evaluated, a diagnostic nasal endoscopy was done to look for the signs of Mucormycosis.

A nasal sample was taken and sent for fungal KOH mount. A preliminary cross-sectional imaging was done with contrast-enhanced computerized tomography (CECT) of the head, paranasal sinuses, orbit, and oral cavity. A contrast-enhanced magnetic resonance imaging (CEMRI) was done for suspected intraorbital or intracranial involvement. Patients were admitted based on clinico-radiological and microbiological grounds. The patients were divided into five stages based on the extent of the disease – sinonasal, sino- naso--orbital, sino- naso-palatal, sino -naso--cerebral, and sino- naso-orbito-cerebral. The patients are put on prophylactic broad spectrum antibiotics along with systemic antifungal amphotericin B.

Mucormycosis being both a medical and surgical emergency, its effective management posed a series of challenges to our health care Infra structure at various levels. Alongside management of the disease per se (medical and surgical), stabilization of the general condition and control of comorbidities were major concerns. Furthermore, the sudden and progressive increase in patient load resulted in the need for an immediate strategy for establishing definitive management plan and improved utilization

of resources and infrastructure. The procurement of anti-fungal medicines especially Amphotericin-B and Posaconazole was effectively managed by the Department of Pharmacology in coordination with the MoHFW, Gol and Government of Chhattisgarh. Other comorbidities were managed by the multidisciplinary team, with a strict emphasis on glycaemic control. All medical personnel were instructed to maintain appropriate COVID-19 behaviour whilst handling the patients. A preliminary COVID-19 swab was taken at the time of ward admission, and the patients were kept in screening wards till their reports arrived. The patients were managed in Mucormycosis designated wards if the reports were negative and, if found to be Covid positive, then they were treated at special

COVID-19 Mucormycosis wards.

A total of 280 patients were managed and 230 surgeries consisting of Endoscopic debridement, maxillectomies, orbital exenteration and craniotomies were carried out. Regular follow up of patients is being carried out through endoscopic and radiological assessment with special focus on rehabilitation using 3D printed prosthesis. The institute also participated in many collaborative projects on COVID-19 and Mucormycosis.

The key to the successful management of Covid associated Mucormycosis in AIIMS Raipur has been the multi disciplinary team approach.



Hybrid CME on Multidisciplinary Management of Mucormycosis



# College of Nursing

## FACULTY

### Assistant Professors

Dr. Binu Mathew

Mrs. J. Jeayareka

### Tutor/ C.I.

Mrs. Chetna Sahu

Mrs. Chandramani

Mr. Rajendar Singh

Mrs. Suman Shinde

Mrs. Chitrekhya Sippy

Mrs. Bagavathi.R

Mr. Sharun. N. V.

Mr. P.D. Deepak

Mrs. Seema Maheswari. A

Mr. Harish Kumar

Mr. Prem Chander

Mrs. Rohisha I. K.

Ms. Ritika Rocque

Mrs. Renu Rekha Korkora

Mr. Harish Meena

Ms. Annamreddi Leelavati

Mrs. Nirupam Nisha Sahu

Ms. Jissa Donel

Ms. Chhameshwari Verma

Dr. Solomon James M

Mr. Jayavel

Dr. Hitesh Choudhary

Mr. Abdul Munaf Mujawr

## HIGHLIGHTS

Activity	Date	Highlights
World Mental Health Week	04.10.2021 to 10.10.2021	<p>With the aim of generating awareness among different age group with various mental health issues. As a part of the celebrations, various events were planned and successfully completed. Highlights of the week were:</p> <ul style="list-style-type: none"> <li>In patient awareness activities (exercises, meditation, recreation, personal hygiene) in psychiatry ward.</li> <li>E poster competition was organized for students of MBBS, B. Sc/ M.Sc Nursing, Paramedical Courses</li> <li>School Mental Health awareness program on the topic Youth Mental Health (Promotion of Mental Health post covid 19 among school Children) was organized for students of 10th – 12th of different schools.</li> <li>Visit to Old age home at Sanjeevani Old age home at Raipur was observed lecture cum discussion on promotion of Mental Health Post Covid old age people and emphasis on Yoga and its impact on Mental Health was discussed.</li> <li>Flagship program – Psychodrama for promotion of Mental Health in Psychiatry Ward &amp; Central Dome.</li> <li>CNE On gatekeeper training for suicide prevention for B.Sc. (Hons) Nursing students &amp; Nursing Staff.</li> <li>Office Yoga – A program for Staff’s faculties.</li> </ul>
Global hand washing day	18.10.2021	A Webinar was organized by Kendriya Vidyalaya No.2, Raipur on the theme “Our Future Is At Hand-Lets Move Forward Together” with the Topic: - Hand hygiene as a fundamental component of public health and safety.

Activity	Date	Highlights
Blood donation Camp at Vivekanand Mahavidyalaya	08. 12.2021	A Blood Donation Camp was organized in collaboration with Department of Blood Bank on 8th December 2021 at Vivekanand Mahavidyalaya. The Camp was inaugurated by Chief Guest Sir S. Zakir Ali, Principal SKT Dabke, Law College Raipur, and Dr. Manoj Mishra Principal, Vivekanand Mahavidyalaya, Raipur.
Universal Health Coverage	10/12/2021 & 11/12/2021	<p>“Universal Health Coverage” was observed with the theme: “Leave No one’s Health Behind: Invest in health systems for all” for the community people of UPHC Heerapur. Activities conducted :</p> <ul style="list-style-type: none"> <li>• Health Screening of under five children, pregnant mothers &amp; adolescent girls in the Anganwadi</li> <li>• Health Exhibition of various health care schemes launched by Govt of India in OPD Registration dome, AIIMS Raipur.</li> </ul>
World Cancer Day	04.02.2022	<p>World Cancer Day was observed in collaboration with Department of Radiotherapy, on the theme “CLOSE THE CARE GAP: Realizing the problem” on 4<sup>th</sup> February 2022 which was inaugurated by Professor (Dr.) Nitin M. Nagarkar, Director.</p> <p>On this occasion, E-poster competition was conducted for BSc (Hons) Nursing students. An online Cancer Awareness programme was also conducted for students of Kendriya Vidyalaya-2.</p>
International Women’s Day	07/03/2022 & 08/03/2022	<p>“International Women’s Day” was observed with the theme: “Gender equality today for a sustainable tomorrow”. Activities conducted :</p> <ul style="list-style-type: none"> <li>• Radio talk on Importance of Gender equality in Household chores &amp; family responsibility Aired on 94.3 My FM (Raipur) given by Mr. Harish Kumar and Mrs. Chandramani, Tutors College of Nursing</li> <li>• Information fair on Initiatives by Government for reducing Gender Gap in all aspects of Social, Economic and Political Life in OPD Registration dome.</li> <li>• A workshop of Gender equality today for a sustainable tomorrow and importance of financial planning &amp; security especially for women/ girls by SEBI Certified Resource Person Dr. Kanchan Naidu, Nagpur</li> </ul>
World Kidney day	10.03.2022	<p>Role play as a part of health awareness activity was done for general public coming to various OPD in AIIMS Raipur. It targeted in creating awareness in public regarding common renal disorders, their symptoms, risk factors and healthy habits to keep our kidney in a good health.</p> <p>Further awareness was created in general public by poster presentation on the theme – “ BRIDGE THE KNOWLEDE GAP TO BETTER KIDNEY CARE”</p>
Pediatric Nursing Emergency Preparedness Programme For Covid-19 (PNEPPCO)	1 <sup>st</sup> - 21.10.2021 2 <sup>nd</sup> - 22.02.2022 3 <sup>rd</sup> -23.02.2022	Organized training programme on Pediatric Nursing Emergency Preparedness Programme for Covid-19 (PNEPPCO) for nursing personnel working at AIIMS Raipur. The workshop was based on hands on training sessions. Around 70 participants were trained in three consecutive rounds.

## EDUCATION

### CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES

S. No.	Title	CME/Conference	Date	Organized By
1.	Gender Equality today for a Sustainable Tomorrow and Importance of Financial Planning & Security Especially for Women/ Girls	A workshop on International Women's Day	08.03.2022	Dept of Community Health Nursing & Mental Health Nursing, College of Nursing, AIIMS Raipur
2.	Pediatric Nursing Emergency Preparedness Programme For Covid-19 (PNEPPCO)	Workshop 1st Training session- 2nd Training session- 3rd Training session-	21.10.2021 22.02.2022 23.02.2022	College of Nursing & Department of Pediatrics AIIMS Raipur
3.	World Cancer Day	Webinar – “Close The Care Gap”	04.02.2022	College of Nursing and Department of Radiotherapy.
4.	World kidney day	CME & Day observation events	10.03.2022	Department of nephrology, school of public health and college of nursing.

### LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

Dr. Binu Mathew

S. No.	Title	CME/Conference	Date	Organized By
1.	Digitalization and elderly	Speaker of the scientific session VI world congress on gerontology and Bangalore, India	31 <sup>st</sup> October 2021	Biogenesis Health cluster. Bengaluru
2.	Behavioral addiction and substance use disorder: Current Nursing Practice.	Chairperson in the International Virtual conference on Behavioral Addiction and substance use disorder	28 <sup>th</sup> & 29 <sup>th</sup> January 2022	Nursing Division, Gov. of India
3.	Cancer awareness and screening	CME for Kendriya Vidyalaya, No-2, Raipur	4 <sup>th</sup> February 2022	College of Nursing, AIIMS, Raipur
4.	Beyond Physical : Mental and emotional impact	World Cancer day observation	4 <sup>th</sup> February 2022	College of Nursing, AIIMS, Raipur
5.	Global hand washing day TOPIC: - Hand hygiene as a fundamental component of public health and safety.	Webinar :-“Our Future Is At Hand-Lets Move Forward Together”	18 <sup>th</sup> October 2021	Kendriya Vidyalaya No.2, Raipur, C.G
6.	21st Annual National Medical Records Conference (MEDRECON 2022)	Chairperson in the Implementation of Electronic health records on hospital nurses role, Role of Nursing Officer in maintaining MLC record in Health team, How long should Medical records be preserved and Break through ubiquitous healthcare: A report on latest technologies available for patient health services.	11 <sup>th</sup> & 12 <sup>th</sup> March, 2022	Organized by Dept of Central Medical Records, AIIMS Raipur

**Mr. P. D. Deepak**

S. No.	Title	CME/Conference	Date	Organized By
1.	World Cancer Day TOPIC :- Key Issues in Cancer Care	Webinar- "Close the Care Gap"	04.02.2022	College of Nursing and Department of Radiotherapy, AIIMS Raipur
2.	Global Hand Washing Day TOPIC: - Hand Hygiene as a Fundamental Component of Public Health and Safety	Webinar :-"OUR FUTURE IS AT HAND-LETS MOVE FORWARD TOGETHER"	18.10.2021	Kendriya Vidyalaya No.2, Raipur, C.G

**ORAL PAPERS/POSTERS PRESENTED**

S. No.	Authors	Title	Conference	Date	Organised By
1.	Dr. Binu Mathew & Mrs. Chandramani Sahu	Stress and Coping strategies among Nursing Students	20 <sup>th</sup> Annual Conference of Indian Society of Psychiatric Nurses in collaboration with MM College of Nursing Mullana, Haryana	02 <sup>th</sup> to 04 <sup>th</sup> October 2021	Indian Society of Psychiatric Nurses in collaboration with MM College of Nursing Mullana, Haryana

**Departmental Projects – Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations****Ongoing**

S. No.	Project
1.	A comparative study to assess the adaptive behavior among normal children and children with disability at selected settings of Raipur.
2.	A study to assess the prevalence of bullying victimization among 1st year college students at selected colleges in Raipur.
3.	An online survey to assess prevalence of intentional self-harm among NEET Aspirants.
4.	A study to assess the correlation between psychological empowerment and assertiveness among women working in a tertiary center of central India.
5.	A study to assess the impact of nephrotic syndrome on emotional and behavioral aspects of the selected children in Raipur
6.	A retrospective comparative study to analyze epidemiological characteristic of death with Covid-19 in 1st and 2nd wave at a tertiary care center of Raipur'
7.	Effect of Emotional Intelligence Educational Programme on adjustment problems faced by First year B.Sc. Nursing students of College of Nursing, AIIMS Raipur, Chhattisgarh.
8.	A quasi experimental study to assess the effectiveness of structured teaching programme on knowledge regarding forensic nursing among BSc. Nursing 3rd year and 4th year of College of Nursing, AIIMS Raipur.
9.	Study to assess the Effectiveness of Educational Interventions Regarding Patient Safety on Knowledge among nursing students of AIIMS Raipur.
10.	A study to assess the home remedies practiced for the prevention & treatment of ARI among parents of under 15 years children.

S. No.	Project
11.	A study to assess the parental acceptability and the hindering factors associated with COVID-19 vaccination among parents of children under 18 years of age at selected settings of Raipur
12.	A study to assess the knowledge regarding tracheotomy care among nurses working in various ICU and surgical units.
13.	A study to assess the most frequently used complementary alternative medicine and home remedies for health promotion during COVID-19 pandemic by general population attending various OPDs of AIIMS Raipur.
14.	A study to assess the effectiveness of mindfulness interventions on psychosocial wellbeing of couples
15.	Assessment of Fear of Childbirth (Tocophobia) and precipitating factors among primigravid women at antenatal OPD of AIIMS Raipur, and development of a psycho-education module on Tocophobia.-(As Co-investigator)

### Completed

S. No.	Project
1.	A study to assess the effectiveness of Self Defense Empowerment Training on self-esteem and assertiveness among students of selected nursing colleges at Raipur.
2.	A study to assess the effectiveness of Progressive Muscle Relaxation Techniques on the stress and anxiety level of elderly in selected old age homes at Raipur”
3.	A descriptive study to assess the perception on occurrence of medication errors and its prevention among the nurses in selected wards at AIIMS
4.	A descriptive study to assess the level of knowledge on prevention of 5Fs (finger, food, fluid, faces and flies) disease transmission among mothers of under five children in selected hospital of Raipur in a view to develop an information booklet.
5.	A descriptive study to assess the knowledge and practice regarding prevention of COVID infection among parents of under 10 years children attending the selected OPD and immunization clinic of AIIMS Raipur.
6.	A cross sectional study to assess the level of stress and coping strategies among nurses and midwives during assisted vaginal delivery in pregnant women affected with COVID-19 at AIIMS, Raipur.
7.	A study to assess the stress and coping strategies among nursing students to meet the academic challenges of Covid-19 pandemic in selected nursing colleges in Raipur, CG.
8.	A study to assess the effectiveness of motivational enhancement package on reducing alcohol dependency among alcoholic dependent clients in selected areas of Raipur , Chhattisgarh
9.	A retrospective study to analyze epidemiological characteristics of deaths with Covid-19 in AIIMS, Raipur.
10.	A descriptive survey on epidemiological determinants of Covid-19, adherence to Covid-19 preventive measures and CORPD (Covid-19 related psychology distress) among middle aged adults attending OPDs of AIIMS Raipur.
11.	A descriptive study to assess the knowledge of caretakers and with view to develop an distribute informational booklet on rights of mentally ill patients at psychiatric IPD & OPD of AIIMS Raipur hospital.
12.	A study to assess the prevalence and factors associated with Premenstrual Syndrome (PMS) among adolescent girls and to test the effectiveness of a web based online teaching programme regarding knowledge on management of Premenstrual Syndrome (PMS) among adolescent girls of Raipur, Chhattisgarh.
13.	A study to assess the prevalence of substance abuse among students of selected college in Raipur, Chhattisgarh.
14.	A descriptive study to assess the level of knowledge regarding malnutrition among the mothers of under-five children in selected areas of Raipur Chhattisgarh.

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/ Institution
1.	A study to assess the prevalence of Extra Pyramidal symptoms among mentally ill patient's attending at Raipur	Nursing officer, AIIMS Raipur

## PUBLICATIONS

### Abstracts Published in Journal(s):

- Annamreddi Leelavathi, Binu Mathew et al.** A descriptive study to assess the level of knowledge on prevention of 5Fs disease transmission among mothers of under five children in selected hospitals of Raipur with a view to develop informational booklet. International Journal of Advances in Nursing Management 10(2) April-June 2022 pp1-4.
- Solomon James, Binu Mathew.** Perception on occurrence of Medication Errors and its prevention among nursing officers. International journal of Health Sciences and Research. Vol.11 (11) Nov 2021 pp 286-293.
- Mathew B, Rohisha IK, Kumar H.** Video assisted awareness programme on ill effects of tobacco and pan-chewing among migrant labourers [internet]. Vol. 10. Indian journal of applied research; 2021. Available from: <http://dx.doi.org/10.36106/ijar>
- Ritika Rocque, Rohisha I. K., Binu Mathew.** Prevalence of Shift work Sleep disorders among security personnel at AIIMS Raipur: A Cross sectional Study. Int. J. Nur. Edu. and Research. 2021; 9(1):80-84. DOI: 10.5958/2454-2660.2021.00020.X
- Jissa Donel, Bagavathi.R , Neha Choudhary , Neha Sharma , Nisha , Nitika Garg , Nikita.** The Effectiveness of a Structured Teaching Programme on Knowledge Regarding Polycystic Ovarian Syndrome (PCOS) among Adolescent Girls at a Selected School of Raipur: International Journal of Nursing Care : Volume 9, Number -1 January-June 2021 PP 45. DOI Number: 10.37506/ijonc.v9i1.14002.
- Sahu, N. N., Vagha, J. and Gawai, J. (2021)** "Efficacy of Modified Betty Neuman Nursing Theory to Develop Evidence-Based Pandemic Care Pathway for Preadolescents in the School", Journal of Pharmaceutical Research International, 33(60B), pp. 2730-2738. doi: 10.9734/jpri/2021/v33i60B34935.

## PATIENT CARE

- Additional responsibility for assisting Nodal Officer- Covid-19 AIIMS Raipur on rotation basis.
- Additional responsibility as Assistant Nursing Superintendents of Isolation Ward Covid 19, AYUSH Block, AIIMS Raipur on rotation basis.
- Providing supportive services for the Nursing Services at AIIMS, Raipur
- Supervising and directing the Nursing care of students through clinical teachings, care study and clinical presentations of the students.
- Co-ordinating the clinical teachings and clinical Supervision with other departments.
- Organized various health awareness activities at individual, family and community levels for client teaching.

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

S. No.	AWARDS, HONOURS AND SIGNIFICANT EVENTS
1.	Trained as Master Trainer for “Nationwide capacity building of Nursing Professionals for comprehensive management of COVID-19 in children” given by the Nursing division Dte GHS, MOHFW, Government of India.- Dr. Binu Mathew, Mrs. J. Jeayareka , Assistant Professors, Dr. Hitesh Choudhary, Mr. P.D. Deepak, Ms. Ritika Rocque, Mrs. Chameshwari Verma, Mrs. Nirupam Sahu and Mrs. Annamreddi Leelavathi, Nursing Tutors, College of Nursing, AIIMS Raipur
2.	Award in various activities e.g., Speech, poetry, Hindi Terminology on Hindi Day competition organized by AIIMS Raipur- Mr. Harish Meena, Nursing Tutor, College of Nursing, AIIMS Raipur.
3.	As PNEPPCO facilitator in Oct. 2021 by Department of Pediatrics. - Mrs. Chetna Sahu, Mrs. Chhameshwari Verma, Mrs. Nirupam Sahu, Mrs. Annamreddi Leelavathi, Mr. Jayavel Mani, Mrs. Seema Maheswari and Mrs. Chandramani Sahu Nursing Tutor, College of Nursing, AIIMS Raipur.
4.	State of the art Simulation lab as a part of making College of Nursing a Center of Excellence has been initiated.

# Department of Anatomy

## Professor & Head

Dr. M. R. Shende (From 02.11.2021)

## Additional Professors

Dr. K. Vijaya Kumar  
Dr. Soumitra Trivedi  
Dr. Mrithunjay Rathore  
Dr. A. U. Siddiqui  
Dr. Manisha B Sinha

## Associate Professor

Dr. Amit Purushottam Tirpude

## Assistant Professors

Dr. Dharam Singh Rathia  
Dr. Rahul K Ukey (From 06.05.2021)

## HIGHLIGHTS

The Seventh Edition of Gross & Microanatomy Practical Manuals authored by the HoD and colleagues had been provided to 1<sup>st</sup> year MBBS students of 2021 batch. The faculty members and SRs in the department have been actively participating and assisting the Institute to manage and cure the people of this region throughout this session during COVID 19 pandemic situation apart from taking online and offline classes / tests of current MBBS batch. The department has set up a Molecular Reproduction Lab (Research Lab).

## EDUCATION

- Postgraduate teaching, training and research activities
- Undergraduate teaching and training to MBBS 1<sup>st</sup> year, B.Sc. Nursing 1<sup>st</sup> year, Degree courses in OT Technician, trauma technician, MLT by adopting modern methodology in macro, micro, developmental, radiological, surface anatomy and genetics
- Teaching of BSc OT Technology, Pre-trauma technology, MLT, Radiographic Technologies

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES

S. No.	Title	CME/Conference	Date	Organised By
1.	Genetics and Infertility	CME	30.10.2021	Department of Anatomy AIIMS, Raipur
2.	Cadaveric workshop on Cochlear Implant	Workshop	04.12.2021	Department of Anatomy AIIMS, Raipur



## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES (as Resource Faculty)

### Dr. Soumitra Trivedi

S. No.	Title	CME/Conference	Date	Organised By
1.	Effect of Mantra on Functional Areas of Brain	CME on Yoga Education(online)	18.04.2021	IYA, Chhattisgarh Chapter
2.	Surgical Anatomy of Inner Ear	Cadaveric workshop on Cochlear Implant	04.12.2021	AIIMS Raipur and AOI, Raipur

### Dr. Mrithunjay Rathore

S. No.	Title	CME/Conference	Date	Organized By
1.	Role of Yoga in COVID Pandemic	International webinar on role of Yoga in COVID Pandemic	12.03.2022	Chhattisgarh Yoga Ayog

### Dr. Manisha B. Sinha

S. No.	Title	CME/Conference	Date	Organized By
1.	Genetics of Male Infertility	Genetics and Infertility	30.10.2021	AIIMS, Raipur

## ORAL PAPERS/POSTERS PRESENTED

### Dr. Manisha B Sinha

S. No.	Title	CME/Conference	Date	Organized By
1.	Male infertility: Y chromosome microdeletion test by EAA markers and non EAA markers in Chhattisgarh	2 <sup>nd</sup> International e-conference on “Emerging Trends in Research-Emphasis on Basic Medical Sciences” BMSe-CON-2020	27.11.2021	Biomedical research of Aarupadai Veedu Medical College, Pondicherry

### Dr. Amit P Tirpude

S. No.	Title	CME/Conference	Date	Organized By
1.	Histological differences in ligamentum flavum between degenerative lumbar canal stenosis and non-stenotic group: A prospective, comparative study	ANZACA	02.12.2021	Aus & NZ Association of Clinical Anatomist

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned
1.	Impact of different yoga posture on core muscle in degenerative disk disease without neurological deficit.	Dr. Mrithunjay Rathore	Intramural (AIIMS, Raipur)	1 year	Ongoing	5,00,000/-
2.	Study on the Efficacy of Visual Empowerment Techniques and the Effect of a Histology Testing Tool (HTT) in the teaching of Histology	Dr. AU Siddiqui	Intramural (AIIMS, Raipur)	2 years	2021-2023	5,00,000/-
3.	Testing of micro deletions of genes on Y chromosome in male partner infertility	Dr. Manisha B Sinha	CGCOST, Raipur	3 years	2018	5,00,000/-
4.	Creation of 3D Printed Anatomical Models of Clinically Essential Regions of the Upper & Lower Limb and Assessment of Improvement in Learning using these models after Anatomical Teaching.	Dr. Dharam Singh Rathia	Intramural (AIIMS, Raipur)	2 years	2022-2024	5,00,000/-

#### Completed –

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	Study of Endoscopic advantage over conventional approach for teaching by dissection of Nose- PNS and Anterior skull base	Dr. Soumitra Trivedi	AIIMS, Raipur	1 Year	2020-2021	500000/-

### Departmental Projects – Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations

#### Ongoing

S. No.	Project
1.	Clinico-biochemical profile and karyotyping in disorders of sex development
2.	Anatomical survey of Kambin's Triangle
3.	The incidence, Gross and histological features of Meckel's diverticulum: a cadaveric study
4.	A Study Of Online Open Book Test Of Undergraduate Medical Students To Increase Conceptual Thinking
5.	Myoelectric activity of core muscle and limb muscle in different yoga pose and its clinical implication.
6.	Perceptions and Benefits of teaching cross-sectional anatomy by Anatomage table to first year medical students of AIIMS Raipur

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/ Institution
1.	Therapeutic efficacy of yoga on biochemical profile, anxiety and sleep quality index of asthmatic: RCT	Department of Pulmonary medicine
2.	Impact of Yoga on quality of life of end- stage renal disease patients on maintance hemodialysis- A mixed method pilot study	Department of Nephrology

### Completed

S. No.	Project	Collaborating Department/Institution
1	Assessment of percentage body fat by using ultrasound techniques in adult Indian males	Department of Physiology, Anatomy & CTVS, AIIMS Raipur. Department of Physical education. Pt RSS Univeristy Raipur

## PUBLICATIONS

- Ingle AS, **Trivedi S**, Bagale KR, Sinha TP. The role of Portable cardiac Ultrasound in understanding the Anatomy and Physiology of Heart: Indian scenario. Indian Journal of Basic and Applied Medical Research; June 2021: Vol 10, Issue 3, P. 367-374.
- Ingle A S, Kashyap N, **Trivedi S**, et. al. Assessment of Body Fat Percentage Using B-Mode Ultrasound Technique versus Skinfold Caliper in Obese Healthy Volunteers. Cureus 14(3): e22993. doi:10.7759/cureus.22993
- Siddiqui AU, Sharma DK, **Trivedi S**, et. al. This is how we did it—Conceiving and continuing a body donation and honor program at all india institute of medical sciences, Raipur, India. National Journal Of Clinical Anatomy; 2020. Vol – 9: Issue 1, P. 7-11
- Konuri VK**, **Siddiqui AU**. Advancing anatomy teaching by incorporating the neurophysiological concepts of learning. NatIJ Clin Anat 2021; 10:181-3
- Sinha MB**, Patel S, Bagde N, Sinha HP, Joshi A. Observational study of Y chromosome microdeletion, EAA markers and non-EAA markers in Chhattishgarh Indian journal of Obstetrics and Gynecology Research 2021; 8(3); 1-4.
- Sinha MB**. STS markers of Y chromosome in Indian population. A review. Panacea journal of Medical Sciences 2021; 11(3): 370-77.
- Sinha MB**, Dada R, Patel S, Joshi A, Bagde N, Sinha HP. Frequency of deletion of AZF region of the Y chromosome in Chhattishgarh. International Journal of Genetics and Genomics 2021; 9(2):36-41.
- Sinha MB**, Hussain N, Agrawal S. Sperm DNA fragmentation Index In Infertility Patients Vs normal Individuals: A cross-sectional study . JCDR 2021; 16 (2): 1-4.
- Meryl R John, **Sinha MB**. Kambin's triangle -cadaveric anatomy and clinical significance. E souvenir- NATCON 68, no.181
- Validation of Freehand Cervical Pedicle Screw Placement in Subaxial Spine Using the "Burcev Technique": A Cadaveric Study Jain M, Rabi N. Sahu, Manisha R. Gaikwad, Sashikanta Panda, Amit Tirpude, NerbadySwari D. Bag. J Neurosci Rural Pract 2021; 12(3): 555-559.

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Dr. M. R. Shende:

Received Certificate from the board of International Journal of Creative Research Thought (ISSN-2320-2880).

### Dr. Soumitra Trivedi:

Organized a “Hand-on Cadaveric workshop cum CME” on “Cochlear Implant”. Teaching of the under and postgraduate students by innovative methods by the use of Endoscope to teach Nose-PNS and Anterior Skull Base. Organized a Cadaveric Ultrasound

Regional Anesthesia and CME in collaboration with department of Anesthesia. Used various innovative methods of online teaching at the time of Pandemic.

### Dr. Manisha B. Sinha:

Honored by Lion's club Raipur for social contributions on 1. 07. 2021. Appreciation Award by Women of Inner wheel club mid for Social activity 1. 07. 2021. Award of MNAMS 2020 received on date 8.07.21 in New Delhi.

### Dr. Amit P Tirpude:

Received Certificate of appreciation for contribution to the green initiative by commuting to work place on bicycle – Date: 26.01.2022.



Cadaveric workshop on Cochlear Implant and CME



National CME on “Genetics and Infertility” organized by Department of Anatomy AIIMS, Raipur on 30.10.21

# Department of Anaesthesiology

## Professors

Dr. Nandkishore Agrawal (Head)  
Dr. Subrata Kumar Singha

## Additional Professor

Dr. Monica Khetarpal

## Associate Professors

Dr. Rashmi Dubey  
Dr. Mayank Kumar  
Dr. Sarita Ramchandani

## Assistant Professors

Dr. Habib Md R. Karim  
Dr. Chinmaya Kumar Panda  
Dr. Mamta Sinha  
Dr. Jitendra Kalbande

## HIGHLIGHTS

First Prize Awarded to Dr. Sarita Ramchandani for Best Team Performance Award at 13th Annual International One-week Online Course on Health Research Methodology and Evidence Based Medicine, St. John's Medical College and Research Institute, Bengaluru, India

Awarded 1st Prize – Dr. Muttharasan PG- JR Department of Anaesthesiology at 68th Annual Conference of Indian Society of Anaesthesiologists, Ahmedabad

A special clinic named “Labour Analgesia Clinic” was inaugurated on 1st Jan. 2022 which functions

once weekly, every Saturday from 11am – 1pm.

## EDUCATION

The department has started the post-doctoral certificate courses (PDCC) in -

- Pain and Palliative Medicine
- Critical Care
- Neuro Anaesthesia
- CTVS Anaesthesia
- Obstetrics Anaesthesia
- Paediatrics Anaesthesia
- Oncology Anaesthesia

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Prof. (Dr) Nandkishore Agrawal

S. No.	Title	CME/Conference	Date	Organised By
1.	Mucormycosis Mortality and Mortality Predictor Score (3MPS)	2021 World Critical care & Anaesthesiology conference & 2021 World Heart & Cardiothoracic Surgery conference	19-20.11.2021	Episirus Scientifica

S. No.	Title	CME/Conference	Date	Organised By
2.	COVID – 19 Human Resilience, Innovation & Hope	National Hybrid CME	23.10.2021	AIIMS, Raipur

### Prof. (Dr.) Subrata Kumar Singha

S. No.	Title	CME/Conference	Date	Organised By
1.	Cardiac Emergencies in Neurocritical Care	Asia and Oceanic Chapter Annual Meet 2021 (Virtual Conference)	24-26.09. 2021	Society of Neurocritical Care
2.	Airway Ultrasound in Critical Care'	Critical Care Ultrasound in Clinical Practice: CME & Workshop	06.11.2021	Critical Care Unit, Department of Anesthesia, AIIMS Raipur
3.	Management of Brain Dead for Organ Donation	On The Occasion of World Organ Donation Day CME	27.11.2021	Department of Nephrology, Urosurgery& School of Public Health, AIIMS Raipur
4.	Regional Anesthesia in Cardiac Surgery'	2 <sup>nd</sup> International & 12 <sup>th</sup> National Conference of Indian College of Anesthesiologists	17-19.12.2021	Department of Anesthesia, MAMC, New Delhi
5.	Hemodynamic Disturbances in Neurocritical ICU	4 <sup>th</sup> Annual Conference of Neurocritical Care Society (Virtual), from	17-19.12.2021	Society of Neurocritical Care
7.	NIV for Preoxygenation: Current and Future	International Association of NIV Conference	22-23.10.2021	International Association of NIV, International School of NIV, and International Association of Bioethics in NIV.
8.	Cardiac surgery and Anaesthesia update	Chhattisgarh Cardiothoracic Surgery and Anaesthesia Association CME	13.11.2021	Chhattisgarh Cardiothoracic Surgery and Anaesthesia Association
9.	Chronic Pain Management Update	Chhattisgarh Cardiothoracic Surgery and Anaesthesia Association CME	25.07.2021	Dept. of Anaesthesiology and Critical care, AIIMS Raipur & ISSP, India

### Dr. Mayank Kumar

S. No.	Title	CME/Conference	Date	Organised By
1.	Fiber Optic Intubation	LHMC ANESTHESIA REFRESHER COURSE "Mastering table vivas" (LARC-MTV)	04-08.10.2021	Department of Anaesthesiology, Lady Hardinge Medical College, New Delhi
2.	Ultrasound Guided IL, IH, LFCN and Obturator Nerve Block. & Ultrasound Guided Stellate, Glossopharyngeal Nerve Block and Greater Occipital Nerve Block.	Workshop on Ultrasound Guided Chronic Pain Management	22.10.2021	Department of Anaesthesiology, AIIMS, Patna and ISA Patna branch

**Dr. Habib Md R. Karim**

S. No.	Title	CME/Conference	Date	Organised By
1.	FAST and e-FAST	CCUS-2021 CME and Workshop	06.11.2021	Dept of Anaesthesiology and Critical care, AIIMS Raipur
2.	Anaesthesia for Patients with Sickle Cell Disease: an Update	ISACON National 2021	25-28.11.2021	Indian Society of Anaesthesiology
3.	Noninvasive Ventilations for COVID-19	RESCARE- 2021	12-14.11.2021	Indian Association of Respiratory Care
4.	Sedation for NIV: An Algorithmic Approach	International CME for Fellows and PGs-Summer School of NIV webinar	22.07.2021	International School of NIV, Murcia, Spain
5.	NIV for Preoxygenation: Current and Future	3 <sup>rd</sup> International NIV Conference / webinar-Naples, Italy	22-23.10.2021	International Association of NIV, International School of NIV, and International Association of Bioethics in NIV.
6.	Multidisciplinary approach to COVID-19 Associated Mucormycosis (CAM)	CME (Hybrid) on Multidisciplinary management of CAM	28.09.2021	Department of ENT and Head and Neck Cancer Surgery, AIIMS Raipur
7.	Cardiac Surgery and Anaesthesia update	CG CTVS Forum CME	13.11.2021	Chhattisgarh Cardiothoracic Surgery and Anaesthesia Association
8.	Case Discussion	ISCCM-CG branch CME	06.12.2021	ISCCM-CG and NHMMI, Raipur
9.	A Step towards Antibiotic Stewardship	National Action Plan-antibiotic resistance	22.09.2021	Dept. of Pediatrics and Medical Microbiology, AIIMS Raipur
10.	Chronic Pain Management Update	CME on Chronic Pain (ISSP-sponsored)	25.07.2021	Dept. of Anaesthesiology and Critical care, AIIMS Raipur & ISSP, India
11.	Updates on COVID-19 management	Clinical Excellence Program: Interactive webinar series to COVID-19 management	08-18.06.2021	AIIMS Raipur
12.	Neuroanaesthesia and Neurocritical Care- Update	NCS Asia Oceanic Chapter Annual Meet 2021	24-26.09.2021	Neurocritical Care Society, India
13.	Health Economics- Definition and Case Study	Workshop on Health Economics (Webinar)	24.05.2021	Department of Telemedicine, PGIMER Chandigarh

**Dr. Chinmaya Kumar Panda**

S. No.	Title	CME/Conference	Date	Organised By
1.	POCUS- Ocular Nerve Sheath Diameter and DVT	CCUSC CME and Workshop	06.11.2021	Dept. of Anaesthesia, AIIMS, Raipur
2.	AKI-Critical Care Viewpoints	CME on World Kidney Day	10.03.2022	Dept. of nephrology and School of Public Health

S. No.	Title	CME/Conference	Date	Organised By
3.	Indicators of Antimicrobial Stewardship Program	CME – A Step towards Antimicrobial Stewardship	23.09.2021	AMSP committee, AIIMS, Raipur
4.	Antimicrobial Stewardship Indicators	National Action Plan - Anti-Microbial Resistance	23.02.2022	Mamata Academy of Medical Sciences, Hyderabad
5.	Management of Stroke Patient in Critical Care	State-Level Training for Stroke	November, 2021	DKS Hospital Raipur

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Agrawal NK	Peri Operative Requirement of Insulin per Kilogram Body Weight – New Software	17 <sup>th</sup> WFSA World Congress of Anaesthesiologists (WCA 2021)	01-05.09.2021	World Congress of Anaesthesiologists
2.	Kumar M, Sinha M, Karoo K	Comparison of Continuous Thoracic Epidural Analgesia with Continuous Erector Spinal Plane Block for Postoperative Analgesia After Breast Cancer Surgery: A Randomized Prospective Study	3rd Annual Conference of the Society of Onco-Anaesthesia and Perioperative Care (SOAPC), SOAPCCON-2021	25-26.09.2021	Tata Medical Center, Kolkata

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	Association of Serum C-Reactive Protein with Postoperative Delirium Among Patients Undergoing Major Abdominal Surgeries: A Prospective Observational Study.	Dr. Mayank Kumar	Intramural, AIIMS Raipur	One Year	2022	5 Lakhs
2.	Comparison of Effect of Total Intravenous Anaesthesia (TIVA) Versus Inhalational Anaesthesia On Immune Cells in Patients Undergoing Radical Cystectomy: A Prospective, Randomized Controlled Study	Dr. Mamta Sinha	Intramural, AIIMS Raipur	One Year	2022	5 Lakhs
3.	Randomized, Single Blind, Comparison of Two Different Flow Rates of Sevoflurane Anaesthesia on Acute Kidney Injury	Habib Md Reazaul Karim	AIIMS Raipur	2 Years	2021	5 Lakhs
4.	Ultrasound Versus Armitage Formula Guided Caudal Block in Paediatric Patients Undergoing Infra Umbilical Surgery: A Randomized Single Blind Comparison of Volume Requirement	Chinmaya Kumar Panda	AIIMS Raipur	2 Years – On Extension	2021	5 Lakh



S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
5.	Incidence of Acute Kidney Injury After Non-Cardiac Major Plus Surgeries: A Prospective Assessment With NGAL and Its Clinical Implications	Monica Khetarpal	AIIMS Raipur	2 Years – On Extension	2020	5 Lakh

**Completed**

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	Information Technology Based Joint Preoperative Assessment and Risk Stratification and Its Impact on Patient Management, Perioperative Outcome And Cost	Habib Md Reazaul Karim	AIIMS Raipur	1 Years 6 Months	2019-2020	5 Lakh

**Departmental Projects – Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations****Ongoing**

S. No.	Project
1.	Comparison of Efficacy of IV Esmolol VS IV Dexmedetomidine in Attenuation of Sympathomimetic Response to Laryngoscopy and Intubation in Patients Undergoing Elective Major Surgeries. A Prospective, Double-Blind, Randomized Controlled Study.”
2.	Comparison of Two Different Doses of Intranasal Dexmedetomidine for Pediatric Procedural Sedation, A Prospective Study”
3.	Randomized Control Trial of Intranasal Midazolam vs Dexmedetomidine for Anxiolysis in Children 2-12 Yrs Undergoing Infraumbilical Surgeries Under GA
4.	Analgesic, and Recovery Profile Comparison Of Ketamine, Lignocaine, and Dexmedetomidine Versus Fentanyl-Based Anaesthesia for Laparoscopic Renal Surgeries: A Randomized, Single-Blind, Pilot Study” Postgraduate
5.	Comparative Analysis of Postoperative Analgesic Effect of Caudal Ropivacaine Versus Ropivacaine with Nalbuphine in Infra-Umbilical Pediatric Surgeries: A Randomized, Double-Blind, Pilot Study.
6.	Comparison of Oral Melatonin and Oral Clonidine, Premedication for Attenuation of Intubation Response in Pediatric Patients, Undergoing Surgical Procedures Under General Anaesthesia: A Double-Blinded Randomized Controlled Trial”
7.	Relationship of ROX and Modified ROX Index with High Flow Nasal Cannula Oxygen Therapy in COVID-19 Patients: An Observational Study
8.	A Randomized, Single Blind Comparison of Ultrasound-Guided PENG and Obturator Block for Prevention of Obturator Jerk During Bladder Tumor Resection
9.	Comparison of Combined Adductor Canal and IPACK Block Versus Intraarticular Ropivacaine and Morphine and Genicular Nerve Block for Postoperative Analgesia in Knee Arthroscopic Procedures
10.	Relationship of Perfusion Index with Nil Per Orally Duration and Prediction of Hypotension Following Spinal Anaesthesia

S. No.	Project
11.	Customized Versus Standard Fixed Sized Pillow for Tracheal Intubation in The Sniffing Position: A Randomized Study
12.	Comparison of Proseal LMA™ And Ambu® Auragain™ LMA In Patients Undergoing Laparoscopic Cholecystectomy
13.	Relation of Absolute Nil-Per-Oral Status with Inferior Vena Cava Collapsibility Index And Post-Spinal Hypotension In Infra-Umbilical Surgeries: An Observational Study
14.	Incidence And Progression of Acute Kidney Injury In Post-COVID-19 Patients: An Observational Study
15.	Analgesic and Recovery Profile Comparison of Ketamine, Lignocaine, And Dexmedetomidine Versus Fentanyl-Based Anaesthesia for Laparoscopic Renal Surgeries: A Randomised, Single-Blind, Pilot Study. (Kelidex Study)
16.	Comparison of Lignocaine And Dexmedetomidine On Attenuation of Cough Reflex And Hemodynamic Response During Tracheal Extubation After Supratentorial Tumor Surgery: A Randomized Controlled Study
17.	Postoperative Analgesic Effect of Caudal Ropivacaine Versus Ropivacaine With Nalbuphine In Infra-Umbilical Pediatric Surgeries: A Randomized, Double-Blind, Pilot Study
18.	Comparison of Efficacy of Combined PENG And LFCN Block With Combined L-ESP And LFCN Block For Postoperative Pain Relief In Hip Surgeries
19.	Correlation of Delta Mean Platelet Volume with Delta Procalcitonin Level with Antibiotic Therapy in Sepsis and Septic Shock Patients. A Clinical Study
20.	A Randomized, Single Blind Comparison of Ultrasound-Guided PENG And Obturator Block For Prevention of Obturator Jerk During Bladder Tumor Resection
21.	A Prospective Observational Study of The Relationship Between Peripheral Perfusion Index And Core Body Temperature During General Anaesthesia.
22.	Association Between Pre-Operative Frailty And Post-Operative Delirium In Elderly Patients Undergoing Lower Limb Surgery Under Regional Anesthesia & Quota Prospective Observational Study.
23.	Ultrasound-Guided Internal Jugular Vein Cannulation by Dynamic Needle Tip Positioning Using Short Axis Out of Plane Approach Vs. Long Axis In-Plane Approach for Assessing Ease and First Pass Success Rate in Patients Requiring Internal Jugular Vein Cannulation: A Prospective Randomized Study.
24.	“Customized Versus Standard Fixed Sized Pillow for Tracheal Intubation in The Sniffing Position: A Randomized Study”
25.	Role of Internal Jugular Vein (IJV) Collapsibility Index to Predict Post Spinal Hypotension in Pregnant Women Undergoing Cesarean Section: A Prospective Observational Study.
26.	Attenuation of Haemodynamic Response to Laryngoscopy and Tracheal Intubation with Intravenous Morphine - A Randomized Comparison of Four Different Timings.
27.	Relationship Between Severity of Anaemia and Acid Base Parameters - A Pilot Study.
28.	To Compare The Analgesic Efficacy of Ultrasound Guided PEC II Block Using Dexamethasone As An Adjuvant To Ropivacaine Versus Plain Ropivacaine In Patients Undergoing Modified Radical Mastectomy: A Prospective, Randomized, Double Blind, Parallel Group Controlled Clinical Trial.
29.	To Compare The Efficacy of Two Different Doses of IV Dexmedetomidine For Controlling Post-Operative Shivering In Women Undergoing Caesarean Delivery Under Spinal Anaesthesia: A Prospective, Randomized, Double Blind, Parallel Group, Controlled Clinical Trial.
30.	To Compare The Analgesic Efficacy of Ultrasound (USG) Guided Erector Spinae Plane Block (ESPB) Versus Retrolaminar Block (RLB) In Patients Undergoing Modified Radical Mastectomy (MRM): A Prospective, Randomized, Double Blinded, Parallel Group, Controlled Clinical Trial.

**Completed**

S. No.	Project
1.	A Randomised Control Trial Comparing Pulse Pressure Variation (PPV) And Pleth Variability Index (PVI) Forgoal Directed Fluid Therapy Intra-Operatively in Patients Undergoing Intracranial (Supratentorial) Surgeries.
2.	Comparative Study to Assess the Ease of Radial Artery Cannulation In Patients Undergoing Surgery Under General Anaesthesia: Pre Induction Versus Post Induction
3.	A Prospective, Randomized, Double Blinded Study to Compare Analgesic Efficacy of Pecto-Intercostal Fascial Block and Erector Spine Block in Patients Undergoing Cardiac Surgery- A Pilot Study.
4.	Comparison of Analgesia with Fentanyl Versus Superficial Cervical Plexus Block with Dexmed in Patients Undergoing TympanMastoidectomy – A Prospective Randomized Control Trial.
5.	Comparison of IVC Collapsibility Index and Perfusion Index as A Predictor of Post Spinal Anaesthesia Hypotension in Parturient Undergoing Caesarean Delivery: A Self-Controlled, Single Blind Study.
6.	Effect of Real-Time Oxygen Consumption Versus Fixed Flow Based Low Flow Anaesthesia On Oxygenation and Perfusion: A Randomized, Single-Blind Study
7.	Preoxygenation Using Pressure Support with Positive End-Expiratory Pressure Versus Manual Bag-Mask Ventilation in Overweight and Obese Patients: A Randomized, Pilot Study
8.	Comparison of Morphine and Dexmedetomidine as Adjuvants to Isobaric Levobupivacaine for Spinal Anaesthesia in Patients Undergoing Abdominal Hysterectomy
9.	The Relationship of Perfusion Index with Post-Sub-Arachnoid Block (SAB) Sensory Block Regression In Parturient Undergoing LSCS: A Pilot Study
10.	A Randomized Controlled Double-Blind Clinical Study to Assess The Effect of Tranexamic Acid On Blood Loss In Head And Neck Cancer Surgery
11.	Comparison of Inferior Vena Cava Collapsibility Index And Perfusion Index As A Predictor of Post-Spinal Anaesthesia Hypotension In Parturient Undergoing Caesarean Delivery: A Self-Controlled, Single-Blind Study
12.	Intraoperative Adherence of Lung-Protective Ventilation In Improvement of Oxygenation With Fixed PEEP And Individualized PEEP In Post-COVID-19 Patients: A Randomized Controlled Trial
13.	Comparison of Efficacy of IV Esmolol Versus Dexmedetomidine In Attenuation of Sympathomimetic Response to Laryngoscopy And Intubation In Patients Undergoing Elective Major Surgeries: A Prospective, Randomized, Double-Blind, Controlled Study
14.	Can Point-of-Care Ultrasonography Predict Difficulty in Intubation? A Prospective Observational Study
15.	A Comparison of Atracurium and Cis-Atracurium With Respect to Laryngeal Relaxation and Hemodynamic Stability in Pediatric Patients for General Anesthesia: A Randomized, Double-Blind, Controlled Study
16.	A Randomized Prospective, Double-Blind Comparative Study to Assess The Analgesic Efficacy of Ultrasound-Guided Erector Spinae Plane Block Versus Port Site Infiltration In Laparoscopic Cholecystectomy
17.	Comparison of Ultrasound Guided Transverses Abdominis Plane Block (TAPB) Versus Erector Spinae Plane Block (ESPB) For Analgesia After Caesarean Delivery - A Randomized, Open Label, Parallel Group Clinical Trial.
18.	Ultrasound-guided Radial Arterial Cannulation by Dynamic Needle Tip Positioning using Short Axis out of Plane Approach vs. Long Axis Inplane Approaches: A Prospective Randomized Controlled Clinical Trail.

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Applicability of the Broselow Paediatrics Emergency Tape at Predicting the Size of Endotracheal Tube (ET) and Laryngeal Mask Airway (LMA) in Paediatrics Patients Undergoing Surgery at AIIMS Raipur: A Retrospective Analysis	Department of Pediatric Surgery, & department of CFM
2.	Perioperative Outcome of COVID-19 Associated Rhino-Occulo Cerebral Mucormycosis: An Observational Study	ENT and Head & Neck Cancer Surgery
3.	Role of Gene-Xpert for the Diagnosis of Pleural Tuberculosis	Department of CTVS, and Microbiology
4.	Association of Serum C-reactive Protein with Postoperative Delirium Among Patients Undergoing Major Abdominal Surgeries: A Observational Study	Dept of Psychiatry, Dept of Biochemistry
5.	Comparison of Effect of Total Intravenous Anaesthesia (TIVA) Versus Inhalational Anaesthesia On Immune Cells in Patients Undergoing Radical Cystectomy: A Prospective, Randomized Controlled Study	Dept of Urology, Dept of Pathology

### Completed

S. No.	Project	Collaborating Department/Institution
1.	A Multinational Online Survey on The Current Perioperative Practice for The Management of Patients with Diabetes Mellitus: A Descriptive Study	AIIMS Raipur, Mediciti Nepal, Evergreen Hospital, Dhaka, Faculty of Medicine, University of Colombo, Sri Lanka, EiC, Apicare Journal, Pakistan

## PUBLICATIONS

- Dantis K, Singha SK et al. (2021) SARS-CoV-2 Sequel: Pulmonary Mucormycosis with a Mycotic Aneurysm in a Transplant Recipient. *TubercRespir Dis*, 84(4):335-337
- Karim HMR, Singha SK et al. (2021) Information Technology-Based Joint Preoperative Assessment, Risk Stratification and its Impact on Patient Management, Perioperative Outcome and Cost. *Discoveries (Craiova)*. 9(2): e130.
- Dantis K, Rathore D, Gupta N, Singha S. (2021) Bochdalek Hernia and Partial Diaphragmatic Agenesis: Pedicled Intercostal Muscle Flap and Mesh Repair in a Young Adult with Sickle Cell Disease. *Surg J*. 7(4): e363-e365.
- Shashank A, Shingade G, Yadav M, Singha S. (2022) Posterior reversible encephalopathy syndrome (*PRES*) in a case of gastrectomy with no comorbidities. *Journal of Anesthesiology Clinical Pharmacology*. doi: 10.4103/joacp.JOACP\_222\_20.
- Karim HMR. (2022) Oxygen Therapy Using Bain's Circuit as an Alternate Option for Moderate COVID-19 Patients in Resource-Limited Set-Ups. *Healthcare in Low-Resource Settings*. 10(1).9829
- Karim HM, Kumar M, Sinha M. (2022) Anesthesia-Related Perioperative Patient Safety Services in Indian Public and Private Hospitals with or without Teaching Programs: A Matched Analysis of Qualitative Survey Data. *Int J Acad Med*. 8:38-46.
- Nehete AR, Sharma R, Karim HMR, Rana S. (2022) Need to Review Anaesthesia Curriculum and Education! *Indian J Anaesth*. 66(1):87-90.
- Bhakta P, O'Brien B, Desarkar P, Karim HMR. (2022) Stress Levels in Anaesthesiologists:

- Explaining The Extremes. *Eur J Anaesthesiol.* 39(2):187-188.
9. Babu MJ, Neema PK, Reazaul Karim HM, Dey S, Arora R. (2021) Effect of Two Different Tranexamic Acid Doses On Blood Loss in Head and Neck Cancer Surgery: A Randomized, Double-Blind, Controlled Study. *Cureus.* 13(12): E20190.
  10. Keshwani M, Karim HMR, Nagalika S, Kumar Biswal D, Dey S. (2021) Elderly with Refractory Chronic Severe Hyponatremia and Anesthesia Management Dilemma: A Case Report with Literature Review. *Geriatr Care.* 7(3):9911.
  11. Sinha M, Kumar M, Dubey I, Singha SK, Karim HM, Karoo K. (2021) Comparison of Morphine and Dexmedetomidine as Adjuvants to Isobaric Levobupivacaine for Spinal Anesthesia in Patients Undergoing Abdominal Hysterectomy. *Anesth Essays Res.* 15:188-93.
  12. Guia M, Alpay N, Gerardo A, Madney Y, Abdelrahim M, Saeed H, Harb H, Gonçalves G, Cabrita B, Alqahtani J, El-Khatib M, Gómez-Ríos M, Fakharian A, Ciobanu L, Karim HM et al. (2021) High-Flow Nasal Oxygen Therapy in Acute Hypoxemic Respiratory Failure: Concise Review On Technology and Initial Methodology. *Turk Thorac J.* 22(6): 494-500.
  13. Karim HMR, Araújo MJ, Esquinas AM. (2021) Noninvasive Ventilation Duration as an Outcome Predictor in Acute Exacerbation of COPD and Respiratory Failure: The Saga Continues. *Can J Respir Ther.* 57:147.
  14. Poonurampampil JA, Karim HMR, Kesavankutty MP, Nayak PP. (2022) Successful Noninvasive Ventilation in A Severely Acidotic and Hypercapnic Comatose COVID-19 Patient with Multiple Comorbidities: A Case Report. *Acute Crit Care.* 37(1):120-123.
  15. Dantis K, Karim HMR, Kurwe MS, Singh V. (2021) Uniportal Video-Assisted Thoracoscopic Surgery in A Two-Year-Old Chronic Empyema Patient: Challenges Faced in The First Case from The Indian Subcontinent. *KardiochirTorakochirurgia Pol.* 18(3):177-179.
  16. Bhakta P, Karim HMR, O'Brien B, Mugawar M. (2021) Comment On: "Impact of Opioid-Free Anaesthesia On Postoperative Nausea, Vomiting and Pain After Gynaecological Laparoscopy - A Randomised Controlled Trial". *J Clin Anesth.* 75:110492.
  17. Dantis K, Rajput V, Karim HMR. (2021) Chest Tube Management in COVID-19 Thoracic Trauma Care Unit. *Anaesth Pain Intensive Care.* 25(4):550-551.
  18. Karim HMR, Khan TH. (2021) The COVID-19 Babies are Even More Blue and Lethal. *Anaesth. Pain Intensive Care.* 25(4):424-427.
  19. Kumari S, Karim HMR, Arora P, Nadirsha A. (2021) Bain's Circuit as Continuous Positive Airway Pressure Device in A Postoperative COVID-19 Associated Mucormycosis Patient with Type-1 Respiratory Failure: A Case Report. *Discoveries Reports.* 4: E22.
  20. Karim HMR, Singha SK, Neema P et al. (2021) Information Technology Based Joint Preoperative Assessment and Risk Stratification and Its Impact On Patient Management, Perioperative Outcome and Cost. *Discoveries (Craiova).* 9(2): E130.
  21. Kurwe MS, Karim HMR, Bhakta P. (2021) An Insight to Irrigation Fluid and Increased Intraoperative Endotracheal Tube Cuff Pressure. *Braz J Anesthesiol.* 10: S0104-0014(21)00231-1.
  22. Hadda V, Suri TM, Pahuja S, El-Khatib M, Ciobanu LD, Cabrita B, Karim HMR et al. (2021) Secretion Management in Patients with Ineffective Airway Clearance with Non-Invasive Mechanical Ventilation Use: Expert Guidance for Clinical Practice. *Monaldi Arch Chest Dis.* 91(4):1499.
  23. Keshwani M, Karim HMR, Dey S, Kalbande JV. (2021) An Aberrant Lateral Femoral Cutaneous Nerve: Superficial to Sartorius is the Norm butnot The Rule. *Anaesth. Pain Intensive Care.* 25(3):406-407.
  24. Bhakta P, Karim HMR, O'Brien B. (2021)

- Peri-Operative Care of The Cannabis User: Practical Considerations. *Eur J Anaesthesiol*. 38(6):664.
25. Bhakta P, Karim HMR, O'Donnell BD. (2021) Comment On: Total Hip Arthroplasty Under Continuous Pericapsular Nerve Group Block (Cpeng) In A High-Risk Patient. *J Clin Anesth*. 73:110301.
26. Bhakta P, Karim HMR, Mandal M, O'Brien B. (2021) Anaesthetising The Septic Patient: Comparing Drug Combinations. *Anaesth Crit Care Pain Med*. 40(3):100864.
27. Karim HMR. (2021) Common Clinical Dilemma Leading to American Society of Anaesthesiologists Physical Status Class Assignment Variation and The Impact of 2019 Amendment. *Turk J Anaesthesiol Reanim*. 49(2):186-189.
28. Kurwe MS, Karim HMR, Mehta R, Nene Y. (2021) Lessons Learned from A Case of Functional Total Laryngeal Obstruction Under Anaesthesia by Vocal Cord Polyp Managed by Vortex Approach. *Turk J Anaesthesiol Reanim*. 49(2):175-177.
29. Sinha M, Kumar M, Dubey I, Singha SK, Karim HM, Karoo K. (2021) Comparison of Morphine and Dexmedetomidine as Adjuvants to Isobaric Levobupivacaine for Spinal Anesthesia in Patients Undergoing Abdominal Hysterectomy. *Anesth Essays Res*. 15:188-93.
30. Karim HM, Kumar M, Sinha M. (2022) Anesthesia-Related Perioperative Patient Safety Services in Indian Public and Private Hospitals with or Without Teaching Programs: A Matched Analysis of Qualitative Survey Data. *International Journal of Academic Medicine*. 8(1):38.
31. Ramchandani R, Ramchandani S, Kumar N et al. (2021) Mayer-Rokitansky-Kuster-Hauser Syndrome with A Benign Ovarian Tumour Presenting as Incarcerated Inguinal Hernia. *Indian J Surg*. <https://doi.org/10.1007/S12262-021-02738-W>

## Chapter(s) in Books

S. No.	Author(s)	Chapter Title	Editor	Book	Edition	City of Publication	Publisher	Year of Publication	First page-Last page
1.	HMR Karim, Chinmaya Panda, Subrata Singha	Preoperative Evaluation in a patient with Idiopathic Pulmonary Fibrosis	Antonio Esquinas	Respiratory Ventilatory Strategies in Acute and Chronic Respiratory Failure in Idiopathic Pulmonary Diseases. A Practical Approach	1st	Heidelberg, Germany	Springer	2022	53-58
2.	Subrata Singha, Jitendra Kalbandhe, Ketki Deotale	NIV in Perioperative Period	Antonio Esquinas	NIV in Pulmonary Critical care	13 <sup>th</sup>	Heidelberg, Germany	Springer International	2022	94-102

## Awards & Honours

**Prof. (Dr.) N.K. Agrawal** – Attended virtually 2021 World Critical care & Anaesthesiology conference & 2021 World Heart & Cardiothoracic Surgery conference on 19-20.11.2021 at Episcirus Scientifica.

**Prof. (Dr.) Subrata Kumar Singha** – ALCAPA Panelist at 25<sup>th</sup> IACTACON 2022, Madurai on 25-27.03.2022 organised by IACTA Madurai.

# Department of Ayush

## Medical Officers

Dr. Sunil Kumar Rai, Ayurveda

Dr. Vikram Pai, Yoga & Naturopathy

Dr. Adnan Mastan, Unani

Dr. Lakshmanakumar V, Siddha

Dr. Ashutosh Tripathi, Homoeopathy

## HIGHLIGHTS

Centre for Integrative Medicine, Education and Research (CIMER) was established at AIIMS, Raipur along with Central Council for Research in Yoga & Naturopathy (CCRYN) Centre for Mind Body Interventions through Yoga (CMBIY) with the research funding of 2.5 Crores for the period of 5 years. Both the centers were inaugurated on 15<sup>th</sup> Dec 2021 by Prof. Dr. Nitin M Nagarkar, Director, AIIMS, Raipur and Dr. Raghavendra Rao, Director, CCRYN, New Delhi. A team of 2 Research officers, 2 Yoga therapists and an attendant were recruited under CCRYN CMBIY project.

## AWARENESS PROGRAMS/ WORKSHOPS CONDUCTED

### 7<sup>th</sup> International Day of Yoga (IDY)

Due to the Covid-19 pandemic this year's IDY program was symbolically organized on social media handles of AIIMS, Raipur by posting individual videos and images of Yoga practice by Director and faculties and the message by Prof. Nagarkar.

### 6<sup>th</sup> National Ayurveda Day

6<sup>th</sup> National Ayurveda Day was celebrated on 02<sup>nd</sup> November 2021 at AIIMS, Raipur Campus

## LECTURES DELIVERED AT CMEs/ WORKSHOPS/ SEMINARS

### Dr. Vikram Pai

S. No	Title	CME/ Conference	Date	Organized by
1.	Yoga for Mental Health	World Mental Health Day program	09.10.2021	Department of Psychiatry, AIIMS, Raipur

with the theme "Ayurveda for Poshan". Dhanvantari Pooja was performed by Prof. (Dr.) S.P Dhaneria, Dean, AIIMS, Raipur and Dr. Ramesh Chandrakar DMS, AIIMS Raipur along with Dr. Sunil Kumar Rai. Faculty, staffs of AIIMS Raipur were present at this occasion. This auspicious day celebrated with Corona Protocol.

### 5<sup>th</sup> National Siddha Day

5<sup>th</sup> National Siddha Day was observed on 23<sup>rd</sup> December 2021 at AIIMS, Raipur Campus to create awareness about Siddha system of Medicine among the faculty, staff and general public. Shri Agathiyar Pooja was performed. Faculty & staff of AIIMS Raipur were present at this occasion.

### 6<sup>th</sup> Unani Day

6<sup>th</sup> Unani Day was observed on 11 February 2021 at AIIMS Raipur to create awareness about Unani system of Medicine among the faculty and general public.

### World Homoeopathy Day - 2021

World Homoeopathy Day was observed on 10<sup>th</sup>, 12<sup>th</sup> and 15<sup>th</sup> April 2021 at AIIMS Raipur to create awareness about Homoeopathy system of Medicine among the faculty and general public.

S. No	Title	CME/ Conference	Date	Organized by
2.	Yoga for Feet & Ankle	CME on World Foot Day	21.08.2021	Department of Orthopedics, AIIMS, Raipur
3.	Yoga & Health	Nursing Fresher Batch Orientation	11.03.2022	Nursing College, AIIMS, Raipur
4.	Non pharmacological management of pain	Foundation training program in pain and palliative care	21.03.2022	National Health Mission under National program for palliative care

### Dr. Adnan Mastan

S. No.	Title	CME/ Conference	Date	Organized by
1.	Unani in AIIMS	Orientation programme of Transitional Curriculum	10.04.2021	Government Unani Medical College, Patna
2.	Management of Obesity through Unani Medicine	Webinar- Haziq Lecture Series	27.06.2021	All India Unani Tibbi Conference (MP State)

### Dr. Ashutosh Tripathi

S. No.	Title	CME/ Conference	Date	Organized by
1.	Dimensions of Integrated Medical Research and Education and scope of Homoeopathy	World Homoeopathy Day - 2021	15.04.2021	AIIMS, Raipur & NIH, Kolkata

## RESEARCH:

### Collaborative Projects

S. No.	Project	Collaborating Departments
1.	Immediate Hemodynamic changes on performing slow uninostri and alternate nostril breathing pranayamas in healthy adults	Department of Yoga & Naturopathy Department of Paediatric Surgery
2.	Efficacy of Yoga Therapy as an adjunct to the individualised Homoeopathic treatment on severity and frequency of migraine: A randomized controlled trial	Department of Homoeopathy Department of Yoga & Naturopathy

## PUBLICATIONS

Rai SK, Mishra V, Rai P. (2022) A Clinical Study On The Ayurvedic Management Of Pandu (Anaemia) With Partantra Kamala; International journal of AYUSH 11(2); 17-23.



## PATIENT CARE

Department	Total
Ayurveda	7734
Yoga & Naturopathy	751
Unani	1786
Siddha	676
Homeopathy	3775

### Special clinics and Therapies in AYUSH:

Swarna Prashan, an effective Ayurvedic immune booster for children was started from October - 2021

by the Department of Ayurveda. This program runs only in two National organizations in the Country; AIIMS Raipur is one among them. Around 700 beneficiaries are getting benefitted from this program. 650 therapeutic procedures were conducted in Unani OPD.



Swarna Prashan An Effective Ayurvedic Immune Booster for Children

# Department of Biochemistry

## Professors

Dr. Eli Mohapatra (Head)

Dr. Rachita Nanda

## Additional Professors

Dr. Suprava Patel

Dr. Jessy Abraham

## Assistant Professors

Dr. Seema Shah

Dr. Dablu Lal Gupta

## HIGHLIGHTS

The Department had organized a hybrid National CME on “Integrating OMICS with newborn metabolic disorders” on 11.09.2021. The Department had organized the 28<sup>th</sup> National AMBICON under aegis of the Association of Medical Biochemists of India, from 02.12.2021 to 05.12.2021 with the theme “Molecular ingress in the realm of modern diagnostics” in a Hybrid manner where Scientists of national & International fame participated. A pre-conference workshop was organized on 02.12.2021 on immunofluorescence techniques, high-performance liquid performance (HPLC), cell culture technique, molecular diagnostics, and flow cytometry. The mega event was inaugurated on 3rd December, by the Honorable Governor of Chhattisgarh, Sushree Anusuiya Uikey. Many eminent international speakers like Prof. Arlene Sharpe George Fabyan Professor of Comparative Pathology, Boston, USA, Dr. Sunita D. Nasta Division of Hematology-Oncology Perelman

Center for Advanced Medicine Philadelphia, PA, Dr. Sridevi Devaraj Medical Director of Clinical Chemistry and Point of Care Technology, Texas Children’s Hospital, and Dr. Sutirtha Chakraborty Senior Consultant, Deptt. of Lab Medicine, Hugesund Hospital, Helse Fonna Health Trust, Norway enlightened the delegates on recent advances on molecular diagnostics. Guest speakers from various institutes of national importance also briefed their extensive work on various aspects of molecular biology and diagnostic approach.

Faculty and residents have been doing COVID duty throughout the year and providing twenty-four hours lab services for the hospital.

## EDUCATION

Dept. continued with online classes for all undergraduate streams, the Postgraduate teaching Seminar, and the Journal club. Later offline classes were also initiated.

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES

S. No.	Title	CME/Conference	Date	Organized By
1.	Integrating OMICS with newborn metabolic disorders	CME	11.09.2021	Dept. of Biochemistry, AIIMS, Raipur

S. No.	Title	CME/Conference	Date	Organized By
2.	Preconference workshop on immunofluorescence techniques, high-performance liquid performance (HPLC), cell culture technique, molecular diagnostics, and flow cytometry.	Workshop	02.12.2021	Dept. of Biochemistry, AIIMS, Raipur
3.	Molecular ingress in the realm of modern diagnostics	Conference AMBICON -21	03.12.2021 – 05.12.2021	Dept. of Biochemistry, AIIMS, Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES (as Resource Faculty)

### Dr. Eli Mohapatra

S. No.	Title	CME/Conference	Date	Organized By
1.	Neuromedicine	CME on Neurobiochemistry Diagnostic & Clinical aspects (11th AMBICON Odisha Chapter)	06.03.2022	M.K.C.G Medical College, Berhampur, Odisha
2.	Chronic Kidney Disease Biomarker	8 <sup>th</sup> ACCLMP National conference	08.01.2022 to 09.01.2022	Govt. Medical College, Guwahati Assam
3.	Full-spectrum flow cytometry- A true way of doing flowcytometry	Flow Cytometer by Indian Society of Translational Research	24.09.2021	Indian Society of Translational Research
4.	Exordium To Sickle Cell Disease	World Sickle Cell Day	19.09.2021	Dept. of Pediatrics, AIIMS, Raipur

### Dr. Rachita Nanda

S. No.	Title	CME/Conference	Date	Organized By
1.	COVID 19 and Pancreas	Immunological Response in COVID 19 - CME	14.08.2021	Department of Biochemistry, BBMCH, Balangir, Odisha
2.	Introduction to different types of peer reviews	Workshop on Scientific Writing and Peer Review	24.09.2021 - 25.09.2021	Indian Society for Clinical Research
3.	Workshop on Indirect Immunofluorescence Assay	28 <sup>th</sup> National Conference of Association of Medical Biochemists of India(AMBI) 2021	2.12.2021	Department of Biochemistry, AIIMS Raipur

### Dr. Suprava Patel

S. No.	Title	CME/Conference	Date	Organized By
1.	Genetics of cystic fibrosis- An overview of CFTR,	28 <sup>th</sup> National Conference of Association of Medical Biochemists of India(AMBI) 2021	04.12.2021	Dept. of Biochemistry, AIIMS, Raipur

S. No.	Title	CME/Conference	Date	Organized By
2.	A laboratory approach towards diagnosis of newborn metabolic disorders	National CME on Integrating OMICS with newborn metabolic disorders	11.09.2021	Dept. of Biochemistry, AIIMS, Raipur
3.	Workshop on the role of HPLC analysis techniques in Clinical & health sciences	28 <sup>th</sup> National Conference of Association of Medical Biochemists of India(AMBI) 2021	02.12.2021	Dept. of Biochemistry, AIIMS, Raipur

### Dr. Jessy Abraham

S. No.	Title	CME/Conference	Date	Organized By
1.	Workshop on Cell Culture – Gateway to Life Science Discoveries	28 <sup>th</sup> National Conference of Association of Medical Biochemists of India(AMBI) 2021	02.12.2021	Dept. of Biochemistry, AIIMS, Raipur

### Dr. Seema Shah

S. No.	Title	CME/Conference	Date	Organized By
1.	Artificial Intelligence in Laboratory Automation	CME on Artificial Intelligence in Health Care, CME as a part of NAMSCON 2020	04.07.2021	Medical Education Unit, AIIMS, Raipur
2.	Screening of Newborn for Sickle-cell Disease	World Sickle Cell Day	19.06.2021	Department of Pediatrics, AIIMS, Raipur
3.	Resource person- How we Treat - Sickle cell Disease” Regional recommendations on VOC prevention	Sickle Cell Disease Webinar	14.08.2021	Online Novartis Healthcare Private Limited
4.	Evidence-based optimization of HU use – Initiation, Titration and Maximum Tolerated Dose	Sickle Cell Disease Webinar	14.08.2021	Online Novartis Healthcare Private Limited
5.	Novel Biomarkers for AKI	AMBICON 28 <sup>TH</sup>	02.12. 2021-05.12. 2021	Department of Biochemistry, AIIMS, Raipur
6.	Workshop on Molecular Diagnostic Techniques	AMBICON 28 <sup>TH</sup>	02.12. 2021-05.12. 2021	Department of Biochemistry, AIIMS, Raipur
7.	AKI-Time to move beyond Creatinine	8th ACCLMP National Conference	08.01.2022 -09.01.2022	Govt Medical College, Gauhati Assam

**Dr. D.L.Gupta**

S. No.	Title	CME/Conference	Date	Organized By
1.	Applications of Flow cytometry in clinical agnostics	47 <sup>th</sup> Annual conference-cum-Workshop, ACBICON-2021	12.12.2021	College of Medicine & JNM Hospital, WBUHS, Kalyani, Nadia, West Bengal
2.	Applications of Flow cytometer in Clinical diagnostics	AMBICON 28 <sup>TH</sup>	2.12.2021-05.12.2021	Department of Biochemistry, AIIMS, Raipur

**ORAL PAPERS/POSTERS PRESENTED**

S. No.	Authors	Title	Conference	Date	Organised By
1.	Dr.Prishni Gupta Dr. Suprava Patel, Dr. Eli Mohapatra, Dr. Seema Shah, Dr. Rachita Nanda	*Levels of Plasma Tetrahydrobiopterin and Plasma Nitric Oxide in MTHFR SNP A1298C Sickle Cell Patients.	AMBICON-21	3 <sup>rd</sup> – 5 <sup>th</sup> Dec 21	Dept. of Biochemistry AIIMS, Raipur
2.	Dr. Shradha Verma, Dr. Prishni Gupta, Dr. Seema Shah, Dr. Suprava Patel, Dr. Rachita Nanda, Dr.Eli Mohapatra	Predictive value of Anti-TPO in thyroid dysfunction	AMBICON-21	3 <sup>rd</sup> – 5 <sup>th</sup> Dec 21	Dept. of Biochemistry AIIMS, Raipur
3.	Dr.Dushyant Sahu Dr. Jessy Abraham Dr. Eli Mohapatra Dr. Rachita Nanda Dr. Suprava Patel Dr. Seema Shah	Impact of family history of diabetes mellitus on pregnant women with gestational diabetes mellitus	AMBICON-21	03.12.2021 – 05.12.2021	Dept. of Biochemistry AIIMS, Raipur
4.	Dr. Diksha Chandrakar Dr. Suprava Patel Dr. Eli Mohapatra Dr. Rachita Nanda Dr. Jessy Abraham Dr. Seema Shah Dr. D. L. Gupta	Thyroid stimulating hormone reference ranges in preterm infants born in a tertiary care hospital	AMBICON-21	3.12.2021 – 05.12.2021	Dept. of Biochemistry AIIMS, Raipur
5.	Dr. Varsha Verma , Dr. 5Prishni Gupta , Dr. Seema Shah, Dr. Suprava Patel Dr. Rachita Nanda, Dr. Eli Mohapatra	Assessment of preanalytical errors in a biochemistry service laboratory of a tertiary care center in Chhattisgarh	AMBICON-21	3.12.2021 – 05.12.2021	Dept. of Biochemistry AIIMS, Raipur
6.	Dr. Ayesha Sinha, Dr. Seema Shah, Dr. Prishni Gupta, Dr. Suprava Patel, Dr. Rachita Nanda, Dr. Eli Mohapatra	**Variation of hsCRP levels in patients of Rheumatoid Arthritis	AMBICON-21	3.12.2021 – 05.12.2021	Dept. of Biochemistry AIIMS, Raipur

S. No.	Authors	Title	Conference	Date	Organised By
7.	Dr. Shrishti Dhar Prasad, Dr. Suprava Patel, Dr. Ajoy Kumar Behera, Dr. Dibakarsahu, Dr. Seema Shah, Dr. Rachita Nanda, Dr. Eli Mohapatra	Inflammatory biomarkers and their correlation among survivor and non-survivor of Novel Corona Virus disease	AMBICON-21	3.12.2021 – 05.12.2021	Dept. of Biochemistry AIIMS, Raipur
8.	Dr. Tripti Baradiya, Dr. S Patel, Dr. R Nanda, Dr. S. Shah, Dr. Eli Mohapatra	Adverse consequences in covid 19 patients may be related to thyroid dysfunction	AMBICON-21	3.12.2021 – 05.12.2021	Dept. of Biochemistry AIIMS, Raipur

\* Third Prize (Award Paper)

\*\* Third Prize (Poster Prize)

## RESEARCH

### Funded Projects

#### Ongoing

##### Dr. Eli Mohapatra

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	A pilot study of ACE (D/I) gene polymorphism in COVID-19 positive patients and their healthy contacts.	Dr. Eli Mohapatra	CG CoST, Raipur	01 year	2021	4,40,000/-

#### Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	A pilot study to evaluate the changes in venous blood gas parameters in health care workers on prolonged use of different kinds of masks	Dr. Eli Mohapatra	AIIMS, Raipur	10 months	2021-2022	5,00,000/-

##### Dr. Rachita Nanda

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Evaluation of Antibody titres following vaccination against SARS-COV=2 in 18-44 year old individuals visiting AIIMS Raipur; A Prospective Longitudinal Study	Dr. Rachita Nanda	AIIMS Raipur	1	2021-2022	5,00,000

**Dr. Suprava Patel****Ongoing**

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	T-cell and cytokine profile in Sickle Cell disorder in predicting clinical outcome	Dr.Suprava Patel	AIIMS, Raipur	1	2020-2022	Rs.500000/-

**Completed**

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Prevalence of MTHFR polymorphism and its impact in patients of sickle cell disease and trait in Chhattisgarh – A pilot study	Dr.Suprava Patel	CGCoST	4	2017-2021	Rs.500000/-

**Dr. Seema Shah****Ongoing**

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Platelet Activation and human platelet antigens (HPA) polymorphism in Sickle Cell	Dr. Seema Shah	Intramural	2 years	2021-2023	5,00,000/-

**Completed**

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Perception of MBBS Students and faculty members about live-streamed lectures- A Web Based Survey	Dr. Seema Shah	NA	1 year	2020-2021	--

**Dr. D.L Gupta**

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Understand the role of micro-RNA (miRNAs) in modulating the cellular responses of DCs during post-traumatic sepsis and septic shock	Dr.D.L. Gupta	SERB, DST, Government of India	2 years	2021-2023	Rs.28,85,040/-
2.	To evaluate the presence of cross-reactive antibodies against the spike protein variants (B.1.617) of SARS-CoV-2 in the vaccinated people and non-vaccinated people who have recovered from natural infection	Dr. D.L. Gupta	AIIMS, Raipur	1 year	2021-2022	Rs.5,00,000/-

## Departmental Projects – Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations

### Ongoing

S. No.	Project
1.	Objective structured Practical Examination (OSPE) as a tool of assessment and as an adjuvant for learning Biochemistry in MBBS students
2.	Correlation of Th17 cells and cytokines (IL-10 & IL-17) with disease activity in SLE
3.	Cell free mitochondrial DNA as an early biomarker in gestational diabetes mellitus.
4.	Correlation of CX3CL1 with immunoinflammatory marker of metabolic syndrome: A case-control study
5.	Effect of unmetabolized folic acid on immunoinflammatory markers in sickle cell disease patients taking folic acid supplementation

### Collaborative Projects

#### Ongoing

S. No.	Project	Collaborating Department/ Institution
1.	ICMR-PCOS TASK FORCE STUDY: Evaluation of Prevalence, Regional Phenotypic Variation, Comorbidities, Risk Factors and the Variations In Response to Different Therapeutic Modalities among Indian Women with Polycystic Ovary Syndrome; A Multicentre Study Across India	Department of OB-GYN AIIMS, Raipur
2.	Development of a Risk Stratification System for Clinical Management of Sickle Cell Disease Using Predictive Machine Learning Approaches.	DST-SERB India
3.	Association of Hypothyroidism with Obesity in Patients with PCOS.	Department of OB-GYN AIIMS, Raipur
4.	Role of AMH in the diagnosis of PCOS	Dept. of Obstetrics and Gynaecology AIIMS, Raipur
5.	Prevalence of autoantibodies and cytokines in patients of rheumatoid arthritis and its clinical significance in Indian RA cohort	Dept. of Medicine AIIMS, Raipur
6.	Effect of body fat percentage on nonalcoholic fatty liver disease and its relation with nerve conduction parameters in health care shift workers	Dept. of Physiology AIIMS, Raipur
7.	Estimation of serum osteopontin in primary osteogenic sarcoma	Dept. of Orthopaedics AIIMS, Raipur
8.	Prevalence and Metabolic syndrome in tribal and nontribal population of Patan block of Chhattisgarh state :a pilot study	Dept. of Physiology AIIMS, Raipur
9.	An Indian Multi-centric Phase IV study to assess the safety of Crizanlizumab with or without hydroxyurea therapy in sickle cell disease patients with vaso-occlusive crises. (CSEG101A2403)	Dept. of General Medicine Dept. of Pediatrics Dept. of Biochemistry AIIMS, Raipur
10.	Burden of Vaso-Occlusive pain crisis: A Cross-sectional Observational Study Among Patients with Sickle Cell Disease in India (B-VOCAL SCD) Interventional Study Protocol (Non-PASS) CSEG101AIN01	Dept. of Pediatrics and Dept. of Biochemistry AIIMS, Raipur



S. No.	Project	Collaborating Department/ Institution
11.	study of Emerging Biomarkers of Renal Injury in Acute Kidney Injury in Term neonates with Perinatal asphyxia – A Nested Case-Control Study	Dept. of Pediatrics, Dept. of Neonatology and Dept. of Biochemistry AIIMS, Raipur
12.	Effect of short-term slow deep breathing on electrophysiological and biochemical correlates of Neurocognition in Sickle Cell Disease	Dept. of Physiology AIIMS, Raipur
13.	Circadian rhythm of sleep-wakefulness & heart rate variability and its relation to polymorphism in Asthmatic patients	Dept. of Physiology AIIMS, Raipur

### Completed

S. No.	Project	Collaborating Department/ Institution
1.	Impact assessment of mHealth (mobile health) follow up of Severe Acute Malnourished (SAM) Children of Chhattisgarh state during COVID-19 Pandemic	Dept. of Pediatrics and Dept. of Biochemistry
2.	Correlation of Vitamin-D Levels With Markers of Bone Metabolism in COVID -19 Patients	Dept. of Orthopedics and Dept. of Biochemistry

## PUBLICATIONS

- Nanda R, Patel S, Ghosh A, KS Asha, Mohapatra Eli. (2022) A study of Apolipoprotein A1(ApoA1) And Interleukin-10(IL-10) In Diabetes With Foot Ulcers. *BioMedicine*. 2022;12(1):30-38. DOI: 10.37796/2211-8039.1279
- Nanda R, Nayak P, Patel S, Mohapatra E, Agrawal S. First-Trimester Reference Intervals for Thyroid Function Testing among Women Screened at a Tertiary Care Hospital in India. *J Lab Physicians*. DOI: 10.1055/s-0041-1736520
- Nanda R, Patel S, Nayak PK, Mohapatra E, Agrawala S. Thyroid Peroxidase Antibodies as a Marker of Iodine Status in Healthy Euthyroid Women in First Trimester of Pregnancy Visiting a Tertiary Care Hospital in Raipur, India. *JEMDS* 2021 June;10(25):1857-1861 DOI: 10.14260/jemds/2021/384
- Nanda R, Gupta P, Patel S, Shah S, Mohapatra E. Uncommon antinuclear antibody patterns as diagnostic indicators. *Clin Biochem*. 2021 Apr;90:28-33. doi: 10.1016/j.clinbiochem.2021.01.008. Epub 2021 Feb 2. PMID: 33539810
- Patel S, Nanda R, Hussain N, Mohapatra E, Patra PK. Methylenetetrahydrofolate reductase polymorphisms as genetic markers to predict homocysteinemia and clinical severity in sickle cell disease. *Biomarker Med*, 2021;15(5):337-345. DOI: 10.2217/bmm-2020-0613 PMID: 33666517
- Patel S, Priya R, Padhi P, Naik T, Nanda R, Mohapatra E, Agrawal S. Newborn Screening-A bolstering step towards quality health in neonates. *Ind J Neo Med Res*, 2021;9(1):44-50. DOI: 10.7860/IJNMR/2021/46844.2293
- Prasad S, Patel S, Behera AK, Sahu D, Shah S, Nanda R, Mohapatra E. Inflammatory and immune biomarkers in predicting the severity in COVID-19. *Adv Med Res*. 2021;33(13):1-13. <https://doi.org/10.9734/jammr/2021/v33i1330950>
- Rachita Nanda, Prishni Gupta, Suprava Patel, Seema Shah, Eli Mohapatra. Reply to Letter to Editor Diagnostic significance of uncommon antinuclear antibodies. *Clin Biochem*. 2021 Apr 18. Online ISSN 0009-9120, <https://doi.org/10.1016/j.clinbiochem.2021.04.015>. <https://www.sciencedirect.com/science/article/pii/S0009912021001181>

9. Patel S, Nanda R, Hussain N, Mohapatra E, Patra PK. Interactions of Combined Haplotypes of Methylenetetrahydrofolate Reductase on Clinical Events in Children with Sickle Cell Disorder. *J Evolution med Dent Sci.* 2021;10(25):1889-1894. DOI: 10.14260/jemds/2021/390
10. Patel S, Bhargava P, Jain V, Tucker OP, Khodiar PK, Patra PK. Autologous platelet derived growth factor and fibrin rich plasma in chronic non-healing ulcer. *Highlights on Medicine and Medical Science.* 2021 July; vol.12:142-154. <https://doi.org/10.9734/bpi/hmms/v12/2197E>
11. Patel S, Padhi P, Naik T, Nanda R\*, Mohapatra E and Agrawal S. Newborn Thyroid-Stimulating Hormone Dynamicity as per the Antenatal and Perinatal Factors. *Iran J Neonatol*, 2021; 12(3):58-67.
12. Verma N, Naik G, Patel S, Padhi P, Naik T and Nanda R. A detailed observational study of maternal and neonatal variables affecting the thyroid-stimulating hormone levels in neonates. *Egypt Pediatric Association Gaz*, 2021;69:36. <https://doi.org/10.1186/s43054-021-00080-0>.
13. Nanda R, Patel S, Wasnik P, Ramchandani R, Mohanty D, Mohapatra E. Distribution of Apolipoprotein A1 Polymorphism(G-75A and C+83T) in patients with Diabetic Foot Ulcers –A Parallel Group Hospital Based Observational Study. *J Clin Diag Res.* 2021;15(7):BC09-BC14
14. Prasad S, Patel S, Behera AK, Naik G, Shah S, Nanda R, Mohapatra E. Early biochemical markers in predicting the clinical outcome of COVID-19 patients admitted in tertiary care hospital in Chhattisgarh, India. *J Lab Physicians*; : 11, 2022. DOI <https://doi.org/10.1055/s-0042-1742631>
15. Patel S, Bagde N, Sinha HP, Joshi A. Observational study of Y chromosome microdeletion, EAA markers and non EAA markers in Chhattisgarh. *Indian J ObstetGynecol Res* 2021;8(3):1-4.
16. Patel S, Joshi A, Bagde N, Sinha H P. Frequency of Deletion of AZF Region of the Y Chromosome in Chhattisgarh. *International Journal of Genetics and Genomics.* 2021;9. 36-41. 10.11648/j.ijgg.20210902.12.
17. Gupta DL, et al. “Estrogen as a safe therapeutic adjunct in reducing the inflammatory storm in trauma haemorrhagic shock patients” *Shock* 2021 Oct 1;56(4):514-521. (PubMed, I.F-3.5
18. Shah S, . Community participation leads the road to epidemic free country. *J Family Med Prim Care* 2020; 9: 5389-90
19. Shah S, Akhade K, Ganguly S, Nanda R, Mohapatra E, Goel AK. Cutaneous manifestations associated with COVID-19 in children: A systematic review. *J Family Med Prim Care* 2021; 10:93-101
20. Shah S. Hyperglycemia: An independent accompaniment of COVID -19. *J Family Med Prim Care* 2021; 10:583
21. Shah, S., Jondhale, S., Sahoo, M.R. *et al.* A Novel Mutation in Cystic Fibrosis Presenting as Pseudo Bartter Syndrome: A Case Report. *Ind J Clin Biochem* (2021). <https://doi.org/10.1007/s12291-021-01010-y>
22. Association of Indices of Glucose Metabolism with Diabetic Foot Ulcers Nothing Sweet about This: Observations from a Hospital-Based CrossSectional Study Rachita Nanda\* , Seema Shah, Suprava Patel and Eli Mohapatra. *International Journal of Medical Research & Health Sciences*, 2021, 10(8): 44-49
23. Shah S. A Novel SCN8A mutation in a case of early-onset infantile epileptic encephalopathy. *BiomedicaBiochimica Acta* 92 S1(Special Issue) (1)
24. Shah S. Liver Failure in an Infant of Late-Onset Glutaric Aciduria Type II”: Case Report ,September 2021 *Indian Journal of Clinical Biochemistry*

**Edited book and monograph**

S. NO	Authors	Chapter	Book	Edition	City of Publication	Publisher	Year of Publication
1.	Dr. Eli Mohapatra, Dr. Rachita Nanda, Dr. Suprava Patel, Dr. Jessy Abraham	All chapters	Biochemistry Laboratory Manual	8th	Raipur	Dept. of Biochemistry	2022

**Chapter in Book**

S. No.	Author(s) of Chapter	Chapter Title	Name of the Editor	Name of the Book	Edition	City of Publication	Publisher	Year of Publication	First page- Last page
1.	Seema Shah	Neonatal Sepsis	Anoop Verma	PAI text book of Pediatrics	Ist	New Delhi	JAYPEE	2022	46-50

**PATIENT CARE**

	Samples Tested from OPD	Samples Tested from IPD	Samples Tested from Special Clinic	Samples Tested from Emergency
Total	849667	674282	13796	205402

**AWARDS, HONOURS, AND SIGNIFICANT EVENTS**

Prof. (Dr.) Eli Mohapatra was nominated as the vice-president of AMBI and President of ACCLMPCON. She was Chairperson for the CME- Chrono medicine: Relevance in COVID times on 18.09.2021 Organised by the Dept. of Physiology, AIIMS, Raipur. She was Chairperson for the CME- CME on Artificial Intelligence in Health Care on 04.07.2021 Organised by AIIMS, Raipur As part of NAMSCON2020. Also She was the Chairperson for the CME- CME on CME on COVID-19: Human resilience, Innovation & Hope

on 23.10.2021 Organised by Dept. of Microbiology, AIIMS, Raipur.

Dr. Seema Shah, was invited for the Web Interview- Doctor Ki Salah- Madhume & Thyroid - Samsyaen aur Nidan by Akashvani, Raipur on 16.02.2022.

**VISITING SCIENTIST**

Prof. D K Mitra  
Head of the Department of Transplant Immunology  
All India Institute of Medical Sciences  
New Delhi

# Department of Burns and Plastic Surgery

## Associate Professor and In-charge

Dr. Jiten Kumar Mishra

## Assistant Professors

Dr. Shamendra Anand Sahu

Dr. Moumita De

## HIGHLIGHTS:

Since the start of the department in the year 2017, the department has developed into a fully functional independent department in a very short period. Now the department is running its outpatient department with special clinics for cleft lip palate patients & Brachial plexuses injury patients, a dressing room and a minor procedure room apart from its routine OPDs.

The department has a fully functional and dedicated Plastic and reconstructive surgery OR in 'A' Block 4<sup>th</sup> floor OT Complex. The OR is well equipped with instruments like an operating Microscope, Vascular Doppler, Nerve stimulator, surgical loops, microsurgery instruments, tourniquet, and routine plastic surgery instruments.

The department is involved in the major reconstructive surgery of congenital deformities, congenital disabilities like cleft lip – cleft palate, post-trauma reconstructive surgeries, head neck onco-reconstruction, post-burn deformities correction other than routine plastic surgeries. The department is working hand in hand with other departments

like the Head neck & ENT department, Orthopedics department, General surgery department, CTVS Department and Obstetrics –Gynaecology Department for taking up challenging surgeries.

The department is successfully running special clinics for:

1. Cleft lip & Cleft Palate – every Monday
2. Brachial plexuses & Peripheral nerve injury – every Thursday

From January 2022 session, two academic MCh residents (1st Batch) has joined the department

## EDUCATION:

Teaching and training the M.Ch Students (Plastic & Reconstructive Surgery) residents of the department. Teaching and training of Postgraduate residents of General Surgery, Ophthalmology, Dermatology, Orthopedics and M.Ch residents of Head-Neck surgery posted in the department on a rotation basis. Teaching of the Pre trauma technician students pursuing 1 year PTT Course. Teaching of ITBP personnel's (Medics & Paramedics) taking training on first responder course.

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES

S. No.	Title	CME/Conference	Date	Organised By
1.	Scientific discussion on Brachial Plexus injury and rehabilitation	CME	15.07.2021	Department of Burns and Plastic Surgery

## LECTURE DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCE

Dr. Jiten Kumar Mishra

S. No.	Title	CME/Conference	Date	Organised By
1.	Foot and ankle defect reconstruction	CME on disorders of foot and ankle	21.08.2021	Department Of Orthopedics AIIMS Raipur

## ORAL PAPER/POSTER PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Dr. Jiten Kumar Mishra	Versatility of pedicled ALT flap for regional defect	21 <sup>st</sup> Annual conference of Association of Plastic reconstructive Aesthetic surgery of odisha	27.03.2022	Association of Plastic &reconstructive Aesthetic surgery,Odisha

## RESEARCH

### Funded Projects

Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	To study the effect of systemic blood pressure on the perfusion of free flaps in cases of head neck and extremity reconstruction using photoplathysmography	Dr. Shamendra Anand Sahu	AIIMS Raipur	1 year	2022-23	47, 500

### Collaborative Projects

Ongoing

S. No.	Project	Collaborating Department/ Institution
1.	Post operative non invasive monitoring device for microvascular free flap in microsurgical reconstruction in head & neck tumor	ENT-Head &Neck Surgery Department
2.	To study the effect or systemic blood pressure in the perfusion of free flap in cases of head – neck & extremity reconstruction Photoplethysmography	ENT-Head &Neck Surgery Department

## Chapter(s) in Books

S. No.	Author (s)	Chapter Title	Editor	Book	Edition	City of Publication	Publisher	Year of Publication	First page-Last page
1.	Dr. Jiten Kumar Mishra Dr. Shamendra Anand Sahu Dr. Moumita De	Reconstruction in head neck tumor	Jagdeep Thakur & Ripu daman Arora	Operative surgery for head & neck tumor	1 <sup>st</sup>	Boca Raton, Florida , USA	Taylor & Francis Group	2021	Chapter no .22
2.	Dr. Neelprabha Dr. Moumita De	Skin cancer	Jagdeep Thakur & Ripu daman Arora	Operative surgery for head & neck tumor	1 <sup>st</sup>	Boca Raton, Florida , USA	Taylor & Francis Group	2021	Chapter no .7

## PATIENT CARE

	OPD	IPD	Major OT	Minor OT	Referral Cases operated	Special Clinics
Total	3899	249	189	187	62	33

## PUBLICATIONS:

- Singhal M, Sabapathy SR, Gupta D, Mahapatra AK, Chauhan S, Tiwari R, Venkatramani H, Kedia S, Saha S, **Sahu SA**, Dash S, Sodhi M. First Successful Separation of Craniopagus Twins in India-Plastic Surgical Considerations. *Indian J Plast Surg.* 2022 Feb 25;55(1):36-44.
- Mishra JK, Sahu SA.** A Rare Anatomical Variation in the Pedicle of Anterolateral Thigh (ALT) Flap. *Indian J Plast Surg.* 2021 Apr;54(2):229-231
- Sahu SA, Mishra JK,** Kar BK, Samal S. Deep Fascia Condensation Mimicking Accessory Extensor Tendon Causing Snapping of Wrist: An Unusual Case. *eplasty.* March 2022
- Mishra JK, De M, Sahu SA,** Arora RD, Raghani MJ, Nagarkar NM. Management of a Late Presentation of Bear Mauling with a Complex Maxillofacial Defect in a Tertiary Care Hospital - A Case Report. *Ann Maxillofac Surg.* 2021 Jul-Dec;11(2):359-362. doi: 10.4103/ams.ams\_218\_21. Epub 2022 Feb 1. PMID: 35265517; PMCID: PMC8848690.
- De M,** Singhal M, Naalla R, Dave A. Identification of Prognostic Factors in Spaghetti Wrist Injuries. *J Hand Surg Asian Pac Vol.* 2021 Dec;26(4):588-598. doi: 10.1142/S2424835521500569. PMID: 34789095.
- Dave, Aniket & Singhal, Maneesh & Tiwari, Raja & Chauhan, Shashank & **De, Moumita.** (2021). Effectiveness of a microsurgery training program using a chicken wing model. *Journal of plastic surgery and hand surgery.* 1-7. 10.1080/2000656X.2021.1953043.
- De M,** Sagar S, Dave A, Kaul RP, Singhal M. Complicated Facial Lacerations: Challenges in the Repair and Management of Complications by a Facial Trauma Team. *Craniomaxillofacial*

Trauma & Reconstruction. February 2022. doi:10.1177/19433875211064512

8. **Sahu SA, Mishra JK, Kar BK, Manju R, De M.** Adamantinoma of tibia: excision and reconstruction with free vascularized fibula flap: a case report and review of literature. *J Surg Case Rep.* 2022 Apr 15;2022(4):rjac165. doi: 10.1093/jscr/rjac165. PMID: 35441002; PMCID: PMC9013241.
9. **De M, Dawar R.** The challenges and complications of re-implantation of the penis following amputation. *Ghana Medical Journal.* 2022;56(1):49-52.

#### Panelist for Panel discussion:-

1. As a panelist on the topic “Triage in practical case Scenarios” in the state level CME cum workshop on “Triage in Emergency’ (Adult and Pediatric) Programme on 13<sup>th</sup> November 2021.
2. Chaired a session in the national CME on Artificial intelligence in Healthcare on 4<sup>th</sup> July, 2021, AIIMS Raipur (As a part of NAMSCON 2020: under aegis of NAMS, India)

#### Special Clinic Started -

Brachial plexus injury launched on the occasion of World Plastic Surgery Day; 15th July 2021.



Inauguration of Special Clinic for Brachial Plexus and Peripheral Nerve Injury

# Department of Cardiology

## Associate Professor

Dr. Satyajit Singh

## Assistant Professors

Dr. Krishna Prasad Nevali (Till 20.09.2021)

Dr. Avinash Arke (Till 10.08.2021)

Dr. Surendra Kumar Naik

## Highlights

This year department started its cardiac structural intervention programme for congenital heart diseases and successfully performed device closure of patent ductus arteriosus (PDA) and balloon-in-balloon coarctoplasty and stenting for coarctation of aorta in cardiac catheterization lab. This year the department has become one of the few centres in the Government sector in South Asia which provides Cardiac Resynchronization Therapy (CRT/ Bi-ventricular pacemaker) and automatic Implantable cardio defibrillator (AICD) implantation. Cardiology Department of AIIMS Raipur added another feather in its cap when it became the first among new AIIMS to start PCSK-9 inhibitor therapy (monoclonal antibody

against PCSK-9) for familial dyslipidemia.

## Education

Department of Cardiology offers DM(Cardiology) course with annual intake of 2 candidates per year. Clinical case presentation, journal club, catheterization conference, departmental seminar, cardiology-nuclear medicine meet and cardiology-radiology meet are organized to impart knowledge and skills to the students. Apart from this, the academic junior residents pursuing post-graduation in Department of Pediatrics and Department of Internal Medicine were given basic echocardiographic training and were exposed to the management of critically ill cardiac patients in intensive coronary care units.

## LECTURES DELIVERED AT CME, NATIONAL & INTERNATIONAL CONFERENCES ( as Resource faculty ) :

### Dr. Satyajit Singh

S. No.	Title	CME/Conference	Date	Organized by
1.	ECG in ACS patients presenting in Trauma & Emergency Department	ECG in Emergency	27.08.2021	Department of T&E, AIIMS Raipur

## RESEARCH:

### Funded projects ( Ongoing )

S. No	Project	Principal Investigator	Funding Agency	Duration (years)	Start	Total funds sanctioned
1.	Effect of CYP2C19 and P2Y12 genetic polymorphism on platelet aggregation in patients on treatment with clopidogrel in Chattisgarh Population	Dr. Satyajit Singh ( Co-PI )	Chattisgarh Council of Science & Technology	02	03/21	Rs 5,00,000



**DEPARTMENTAL PROJECTS (ONGOING) – NON-FUNDED**

S. No.	Project
1.	Assessment of right ventricular systolic function by TAPSE and global left ventricular function by Tei Index by tissue doppler imaging in patients of hypertension with and without microalbuminuria
2.	Prevalence of left ventricular systolic dysfunction measured by global longitudinal strain (GLS) echocardiography in chronic kidney disease patients with preserved LVEF and its correlation to renal biochemical parameters
3.	Assessment of Left Ventricle Myocardial Performance Index (MPI/Tei index) by myocardial tissue doppler imaging (TDI) and its correlation with serum TSH levels and atherogenic index of plasma (AIP) in patients with subclinical hypothyroidism

**COLLABORATIVE PROJECTS (ONGOING)**

S. No.	Project	Collaborating Department
1.	Assessment of right ventricular ejection fraction by first pass radionuclide ventriculography and its comparison with echocardiography determined surrogate markers of right ventricular function in patients with dilated cardiomyopathy	Department of Nuclear Medicine
2.	Correlation of computed tomographic pulmonary angiography with echocardiographic indices in patients with suspected pulmonary embolism	Department of Radiodiagnosis
3.	A cross-sectional study of cardiac dysfunction in sickle cell disease patients	Department of Medicine
4.	Evaluation of cardiac diastolic function and global LV function using Myocardial performance index evaluated by echocardiography and myocardial tissue doppler in pregnant women with Pre-eclampsia and normotensive pregnancy – A comparative case control study	Department of Obstetrics & Gynaecology

**COLLABORATIVE PROJECTS (COMPLETED)**

S. No.	Project	Collaborating Department
1.	Role of FDG PET-CT in assessment of myocardial viability in patients with coronary artery disease associated with left ventricular dysfunction	Department of Nuclear Medicine

**PATIENT CARE:**

Total OPD consultations / IPD	15611 / 817
ECG done in Non-invasive Lab	11307
Echocardiography	5365
Transesophageal echocardiography	10
Exercise TMT	64
Holter	08
Emergency Pericardiocentesis	15
Coronary Angiography	472

Coronary Angioplasty+Stenting	138
Cath Study	07
Coarctoplasty + Stenting for Coarctation of aorta	01
Permanent pacemaker implantation ( PPI )	36
Temporary transvenous pacing	35
CRT ( Cardiac Resynchronization Therapy )	01
Implantable Cardio Defibrillator (ICD)	02
Pulse Generator Replacement (PGR)	02
PDA Device Closure	01
Percutaneous transmitral commissurotomy (PTMC) / BMV	02
Pulmonary Valve Balloon Dilatation (PVBD)	02

## AWARDS, HONOURS AND SIGNIFICANT EVENTS:

Dr. Satyajit Singh was appointed as a supervisory member of State Organ and Tissue Transplant Organisation, (SOTTO) Chattisgarh. He was invited as a regional coordinator for sudden cardiac arrest awareness by Revive Heart Foundation, Mumbai on March 20,2021 during the Hybrid meet of the organisation. He is the editorial associate of Indian Heart Journal (IHJ)- official publication of the

Cardiological Society of India. He participated as an expert on the new heart failure guidelines in the annual meeting of Indian Society for Heart and Lung Transplantation in collaboration with International Society for Heart and Lung Transplantation held on 27<sup>th</sup> and 28<sup>th</sup> November, 2021. He also participated as a panelist in the Hybrid CME on multidisciplinary management of Mucormycosis and dealt with questions pertaining to thrombosis and anticoagulation in Mucormycosis occurring in the setting of COVID-19.

# Department of Cardiovascular And Thoracic Surgery

## Additional Professor and In charge

Dr.Nitin Kumar Kashyap

## Assistant Professor

Dr.Preetam Sahani

Dr.G.Saurabh

Dr.Pranay Mehsare

## HIGHLIGHTS

Department of Cardiovascular and Thoracic Surgery is providing OPD, IPD as well as 24x7 days emergency services. The Department is performing all adult cardiac surgeries like Coronary artery bypass grafting, Valve replacement, Tetralogy of Fallot, Acynotic congenital heart disease, Aortic root enlargement. Thoracic surgeries -Decortication, Lung resections, chest wall and lung tumor resection. Vascular Surgeries- aneurysmal repair, bypass grafting, AV fistula construction, emergency embolectomy. We have started uniportal Video-Assisted Thoracoscopic Surgery for inflammatory as well as in Cancer cases.

The department has started dedicated Pediatric cardiac Surgeries from 2021. The Department has dedicated 11 bedded fully equipped CTVS ICU and 4 bedded step-down ICU with 25 bedded CTVS ward as well as one isolation room facility for patient. The Department has started high end fully equipped dedicated high end CTVS ICU facility in 4<sup>th</sup> floor C block.

## EDUCATION

Vascular anastomosis Skill workshop for Post graduate students on March 2022.

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES

S. No.	Title	CME/Conference	Date	Organised By
1.	CTVS Scientific Session CG chapter	Chhattisgarh Cardiothoracic surgeon and cardiac anesthetist association CME	02.03.2022	Department of CTVS, AIIMS Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

Dr.Nitin Kumar Kashyap

S.No.	Title	CME/Conference	Date	Organized by
1.	Management of Chest Trauma	Chhattisgarh Cardiothoracic surgeon and cardiac anesthetist association CME	14.01.2022	CTVS Association, Raipur

**Dr. Preetam Sahani**

S. No.	Title	CME/Conference	Date	Organized By
1.	Prevention and control of cardiovascular disease – Master trainer	National Program - Lecture	Jan 2022	State Health Department, Chhattisgarh
2.	Diagnosis and Primary management of Cardiac emergencies and Diseases and Basic CPR skills	Master Trainer	Nov 2021	State Health Department, Chhattisgarh
3.	Surgical aspect in management of heart diseases - Guest Speaker	World Heart Day 2021	29/09/2021	State Health Department, Chhattisgarh
4.	Basic for Vascular anastomosis skills for surgical resident	CME	Dec 2021	Johnson and Johnson

**Dr. G. Saurabh**

S. No.	Title	CME/Conference	Date	Organised By
1.	RA Mass in a child	Chhattisgarh Cardiothoracic surgeon and cardiac anesthetist association CME	02.03.2022	Department of CTVS, AIIMS Raipur
2.	Heart Transplant workshop - Panelist	Annual meeting- the digital experience- Conference	26/11/2021	Indian society of heart and lung transplant
3.	CPB in patient with sickle cell disease	Seminar	20/11/2021	AIIMS, Delhi

**Dr. Pranay**

S. No	Title	CME/ Conference	Date	Organised by
1.	Science of tissue management- sternum closure	CME	19/09/2021	Johnson and Johnson
2.	Management of Rib injury	Academic lecture	06/04/2021	Government medical college and Superspeciality Hospital, Nagpur
3.	Basics of Cardiopulmonary bypass	CME	30/05/2021	Government medical college and Superspeciality Hospital, Nagpur
4.	Management of vascular trauma	Seminar	11/05/2021	Government medical college and Superspeciality Hospital, Nagpur

**ORAL PAPERS/POSTERS PRESENTED**

S. No.	Authors	Title	Conference	Date	Organised By
1.	Dr.G.Saurabh	Thrombus formation in the heart following ballon atrial septostomy in the transposition of great arteries	Annual conference of IACTS 2021	2021	Indian association of Cardiothoracic surgery

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	A Comparative Study To Assess the Efficiency of Digital Drainage Systems With Conventional Drainage in the Management of Cardiac Surgery	Dr. Nitin Kashyap	AIIMS Raipur	1 year	2022	5 lacs
2.	To Study the Efficacy of Uniportal Video-Assisted Thoracoscopic Lung Biopsy in the Management of Interstitial Lung Disease Funded by AIIMS Raipur	Dr. Klein Dantis	AIIMS Raipur	1 year	2021	5 Lacs

#### Completed

S. No	Project
1.	A country-level assessment of current status of emergency and injury care at secondary and tertiary care centers in India” funded by NITI Aayog, New Delhi

### Departmental Projects – Non-Funded Projects

#### Ongoing

S. No.	Project
1.	Clinical Experience With the Miltonia Valve: Performance of New Bileaflet Mechanical Prosthesis in Mitral Valve Replacement Surgery

## PUBLICATIONS

- Kashyap N**, Ahmad D, Magattapalli,K. Brief overview of Surgical aspect of arterio-Venous Fistula for dialysis access. Asian Cardiovasc Thorac Ann. 2021 Jul7;2184923211029496
- Dantis K, Gupta A, **Kashyap N** et al. Pulmonary sclerosing pneumocytoma masquerading adenocarcinoma with co-existing BRAF V600E and PTEN mutation.Cancer treat Res Commun.2021;28:100429
- K,Gupta V, **Kashyap N** et al. SARS-CoV-2Sequel:Pulmonary Mucormycosis with a mycotic aneurysm in a transplant recipient .Tuberc Respir Dis (Seol).2021Oct;84(4):335-337
- Kashyap N**, Magattapalli K, Dantis K et al. A maze of pearl in Chest 2021.Ind jour of thora and cardio vas surg.37(3).360-1
- Sigh S, Thakur C, Kumar M, Sethi S, **Kashyap N**. A large left atrial myxoma presenting as positional pre-syncope.Clin Med Img Lib 2021
- Ingle A S, **Kashyap N**, Trivedi S, et al. (March 09, 2022) Assessment of Body Fat Percentage Using B-Mode Ultrasound Technique versus Skinfold

- Caliper in Obese Healthy Volunteers. Cureus 14(3): e22993. DOI 10.7759/cureus.22993
7. Verma M, **Gaind S**, Khurana R, Kumar S. Mycotic aneurysms of pulmonary artery secondary to pulmonary valve endocarditis in a child. J Card Surg. 2021; 1-2
8. Chowdhury UK , George N,Sankhyan LK, **Saurabh G**, Sharma S,Goja S, Pandey N. (2021) An Alternative Technique of Intraoperative Identification of Multiple Muscular Ventricular Septal Defects. J. Clinical Cardiology and Cardiovascular Interventions, 2021 Nov 4(17);1-4.

## PATIENT CARE

	OPD	IPD	Major OT	Minor OT
<b>Total</b>	2766	454	222	24

# Department of Clinical Hematology

## Assistant Professor

Dr. Prasad Dange

## HIGHLIGHTS

Running Hematology OPD/IPD/Referrals and involved in Sickle clinic in association with General Medicine

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Prasad Dange

S. No.	Title	CME/Conference	Date	Organised By
1.	Pain Assessment	Foundation Training Programme in Pain and Palliative Care for Healthcare workers	22.03.2022	AIIMS Raipur, under National Health Mission

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/Institution
1	Epidemiological and clinical spectrum of Pancytopenia	General Medicine

## PUBLICATIONS

1. Chauhan R, Singh J, Sharma C, Dange P, Chopra A, Mahapatra M, Pati H. (2021) The utility of a single tube 10 colour flow cytometry for quantitative and qualitative analysis in MDS. Leuk Res. 107: 106651.
2. Dange P, Tyagi S, Juneja R, Seth T, Saxena R. (2021) Study of bone marrow lymphocytes in AML. J Lab Physicians. Doi: 10.1055/s-0041-1733304

## Chapter(s) in Books

S. No.	Author (s)	Chapter Title	Editor	Book	Edition	City of Publication	Publisher	Year of Publication
1.	Juneja R, Dange P, Arora R	Diagnosis of amyloidosis. From History to current tools	JS Harrison	Amyloidosis- History and Perspectives	First	London	Intach Open	2022

## PATIENT CARE

	OPD	IPD
Total	1697	225

# Department of Community & Family Medicine

## Professor and Head

Prof. Dr. Manisha Ruikar

## Professor

Prof. Dr. Abhiruchi Galhotra

## Additional Professors

Dr. Gouri Kumari Padhy

Dr. Anjali Pal

Dr. Anjan Kumar Giri

## Assistant Professors

Dr. Arvind Kumar Shukla

Dr. Ashish Wasudeo Khobragade

Dr. Amit Kumar Mishra

## HIGHLIGHTS

CFM Department runs the Covid-19 Vaccination Centre of AIIMS Raipur since 16<sup>th</sup> January 2021 for various categories of beneficiaries. During 1<sup>st</sup> April 2021 to 31<sup>st</sup> March 2022, 19561 beneficiaries received the first dose and 29087 beneficiaries received the second dose of Covid-19 vaccine at the Vaccination Centre. Precaution dose was given to 1978 beneficiaries and 102 children were vaccinated with Covid-19 vaccine.

Organized the first Online Research Methodology Program (BRMP-I) for Faculty Members of AIIMS Raipur from 7<sup>th</sup> December 2021 to 10<sup>th</sup> December 2021 under the aegis of Institute Research Cell, AIIMS Raipur.

Poshan Week was observed in the last week of September 2021 at Urban Health Training Centre (UHTC), Kaling Nagar Anganwadi and Bada Ram Nagar Anganwadi. Interactive Health Education using audio-visual aids was imparted along with demonstration of nutritious recipes to women, adolescents and children. On this occasion, in presence of all the CFM faculties; Poshan Abhiyan

was launched to be continued till December 2021.

Post-Covid, Special Clinics such as ANC and NCD, were restarted in November and December 2021 respectively at UHTC. Also Immunization Clinic and ARV Clinic were NEWLY started in October and December 2021 respectively at UHTC.

To observe World Diabetes Day on 14<sup>th</sup> November 2021, beneficiaries in Urban Field Practice Area (UFPA) were screened for Diabetes Mellitus and health educative session was conducted for them at UHTC.

To observe World Deworming Day on 10<sup>th</sup> February 2022, Albendazole syrup was distributed to the beneficiaries in UFPA.

To observe World Tuberculosis Day on 24<sup>th</sup> March 2022, role play was performed by CFM Interns and health educative session was conducted by CFM JRs at UFPA.

## EDUCATION

Different participatory methods of teaching like field visit, family study, case presentation, role play,



preparation of health educative material, group health educative activity for slum dwellers, group discussion, group exercise, quiz, seminar, tutorial etc. are used for undergraduate teaching.

For postgraduate teaching; journal club, seminar, public health update, book review, clinico-social case presentation, book reading session, statistics lecture, group discussion, group exercise, thesis review are periodically conducted.

## Academic Development

All faculty members, senior residents and junior residents consistently update their academic knowledge by participating in various academic proceedings [like MEDUCON 2021, IPHACON 2021, IAPSMCON-2022, ISMSCON-2021, RASTA-2021, CARCON 2021, Implementation research with a focus on infectious diseases of poverty (WHO), Integrating OMICS with newborn metabolic disorders, Training of assessor for State Effective Vaccine Management Assessment, Analytical techniques for statistical analysis in mental health, Quasi-experimental studies-Design and analysis, Systematic review and meta-analysis, Visualization & statistical discovery using JMP, Beyond the pandemic: Time to move, Expertise discussion on adolescent nutrition, Nutrition survey

methodology, Public health: More than ever, Now!; COVID-19: Human resilience, innovation & hope, A primer to social epidemiology, Transforming global health by integrating medical, social and behavioral interventions; Breakthrough in data analysis, Operations research, Leadership skills in public health, Economic evaluation of national health programs, Health policy making in India: experiences from National Health Policy 2017, Clinical Trial Registry (CTR) – India, Qualitative methods in health research using QDA Miner Lite, Policies, practices and innovations in surveillance and case management for Malaria elimination, Recent advances in prevention & control of Hepatitis B & C etc.], by undergoing different academic courses and by being a reviewer of scientific journals.

Dr. Reshma Prasad, Junior Resident was awarded Post Graduate diploma in Public Health Nutrition by the Indian Institute of Public health-Delhi, Public Health Foundation of India.

CFM Junior Residents enthusiastically participated in many competitions at the National level like 'Mai' movie key message competition, slogan competition, PSM quiz, TB quiz, debate competition as well as in Institutional quiz on infection control practices, hearing etc.

## CMEs/ Workshops/ Symposia/ National and International Conferences Organised by the Department

S. No.	Workshop	Date	Organised by
1.	Online Basic Research Methodology Program (BRMP-I) for Faculty Members of AIIMS Raipur	07- 10.12.2021	Research Orientation Program Subcommittee of IRC, AIIMS Raipur

## Lectures Delivered at CMEs, National and International conferences

Prof. (Dr.) Manisha Ruikar

Sr. No.	Title	CME/conference	Date	Organised By
1.	Measures of Disease Frequency	Online Basic Research Methodology Program (BRMP-I) for Faculty Members of AIIMS Raipur	07.12.2021	Research Orientation Program Sub-Committee, Institute Research Cell, AIIMS Raipur
2.	Descriptive Study Designs		08.12.2021	
3.	Designing Data Collection Tool/CRF		09.12.2021	
4.	How to Write Research Proposal		10.12.2021	

**Prof. Dr. Abhiruchi Galhotra**

Sr. No.	Title	CME/conference	Date	Organised By
1.	Smoke Free City (Panelist)	Smoke Free Workshop	12.10.2021	SIHFW, Raipur under NTCP

**Dr. Gouri Kumari Padhy**

Sr. No.	Title	CME/conference	Date	Organised By
1.	Prevention of Sickle Cell Disease	CME on Sickle Cell Day	19.06.2021	Department of Pediatrics, AIIMS Raipur
2.	Non Pharmacological Management of Dementia	Online Course on Dementia Care	June 2021	ARDSI, Kerala Branch

**Dr. Anjan Kumar Giri**

Sr. No.	Title	CME/conference	Date	Organised By
1.	Formulation of Research Question, Hypothesis & Objectives	Online Basic Research Methodology Program (BRMP-I) for Faculty Members of AIIMS Raipur	07.12.2021	Research Orientation Program Sub-Committee, Institute Research Cell, AIIMS Raipur

**Dr. Arvind Kumar Shukla**

Sr. No.	Title	CME/conference	Date	Organised By
1.	Types of Data, Levels of Measurements Types of Variables, Functional Relationships	Online Basic Research Methodology Program (BRMP-I) for Faculty Members of AIIMS Raipur	09.12.2021	Research Orientation Program Sub-Committee, Institute Research Cell, AIIMS Raipur
2.	Sample Size for Various Study Designs			

**Dr. Ashish Wasudeo Khobragade**

Sr. No.	Title	CME/conference	Date	Organised By
1.	Error, Bias & Confounding	Online Basic Research Methodology Program (BRMP-I) for Faculty Members of AIIMS Raipur	09.12.2021	Research Orientation Program Sub-Committee, Institute Research Cell, AIIMS Raipur

**Dr. Amit Kumar Mishra**

Sr. No.	Title	CME/conference	Date	Organised By
1.	Experimental Study Designs	Online Basic Research Methodology Program (BRMP-I) for Faculty Members of AIIMS Raipur	09.12.2021	Research Orientation Program Sub-Committee, Institute Research Cell, AIIMS Raipur

## Oral papers /Posters Presented

Sr. No.	Authors	Title	Conference	Date	Organised By
1.	<b>Arvind K. Shukla</b> , Abhiruchi Galhotra, Madhu Balan V G	Level of Satisfaction of Patients Regarding Availability of Water, Sanitation and Hygiene in Healthcare Facilities: A Cross-Sectional Study in a District of Central India	ISMSCON 2021	09-11.12.2021	Department of PSM, RIMS, Ranchi
2.	Gouri Padhy	Needs and Expectations from Mentorship Programme in Medical College	IPHACON 2021	24.09.2021	IPHA, JIPMER, Puducherry
3.	<b>Abhishikta Bose</b> , Gouri Padhy	Prevalence and Determinants of Non-Adherence to Medications in Patients with Chronic Diseases	IPHACON 2021	24.09.2021	IPHA, JIPMER, Puducherry
4.	<b>Arvind K. Shukla</b> , Anjali Pal	Knowledge and Practice of Folic Acid Supplementation among Pregnant women: A Cross Sectional Study in a District of Central India	RASTA 2021	15 - 17.12.2021	Department of Statistics, Institute of Science, BHU, Varanasi
5.	<b>Nistha Rutam Dash</b> , Anjali Pal, Arvind Shukla	Study of Unmet Need for Family Planning in Married Women of Age Group 18-49 Years	IPHACON 2021	23 - 26.09.2021	IPHA, JIPMER, Puducherry
6.	<b>Shenoy M Swathi</b> , Santra A, Giri AK	Rabies Elimination Policy Guidelines – Where Do We Stand?	CARCON 2021	29.01.2022	Department of CFM, AIIMS Gorakhpur
7.	<b>Nithesh B</b> , Priya KP, Giri AK	Need to Code the Occupation of Deceased in the Medical Certification of Cause of Death	IAPSMCON 2022	03 - 05.03.2022	GMC and IGGMC, Nagpur
8.	<b>Muthathal S</b> , Malhotra Sumit, Kant Shashi, Goswami Kiran, Kaloiya Shanker Gauri, Vanamail P.	Psychological Well-being of Rural Adolescent Girls in a Community of North India	IPHACON 2021	23-26.09.2021	IPHA, JIPMER, Puducherry
9.	Abhishek Kumar Shastri, <b>Muthathal S</b> , Surya Balakrishnan, Prakash B.	Quality of Life and Functional Independence Among Stroke Survivors Attending a Tertiary Care Hospital: A Cross-Sectional Study	Public Health International Conference on Mental Health-2021	18-19.11.2021	Department of Community Medicine, Sree Balaji Medical College and Hospital, BIHER

## RESEARCH

### Funded Projects

#### Ongoing

Sr. No.	Title	PI	Funded by	Duration	Start year	Fund
1.	Community behavior and its Determinants in Relation to Malaria Prevention and Control in Chhattisgarh	Prof. Dr. Manisha Ruikar	ICMR	2 Years	2021	52,86,120/-

Sr. No.	Title	PI	Funded by	Duration	Start year	Fund
2.	MINERVA (Mortality in India Established through Verbal Autopsies) Network – A Joint Initiative of Registrar General of India and AIIMS, New Delhi	Prof. Dr. Manisha Ruikar	Govt. of India	Indefinite	2018	2,55,150/- (Second release of fund) Activity based long term release of funds for years to come
3.	Effectiveness of a Self-Sustaining Model of Behaviour Change Communication (BCC) Interventions Delivered through School going Students to their Parents on Prevention of Non-Communicable Diseases - A Study in the Urban Field Practice Area of AIIMS, Raipur	Dr. Anjan Kumar Giri	AIIMS Raipur	1 year	2019	5,00,000/-

## Departmental Projects (Including thesis/dissertations)

### Ongoing

Sr. No.	Project
1.	Outpatient Department Footfall and Disease Distribution among Beneficiaries Visiting Urban Health Training Centre of AIIMS, Raipur- A Retrospective Observational Study
2.	Prevalence of COVID-19 post Vaccination and Symptom Profiling amongst Health Care Workers- A Cross-Sectional Study
3.	Effect of Health Education Intervention on Reducing Sedentary Screen Time in Children under 5 years: Cluster Randomized Control Trial
4.	Sleep Hygiene among Medical Students and Doctors in a Medical College in Chhattisgarh, India
5.	Out of Pocket Expenditure on Health Care among People Residing in Urban Slum Dwellers in a City of Chhattisgarh India
6.	Impact of COVID-19 on Menstrual Hygiene among Adolescent Girl Residing in an Urban Slum Area of Raipur, Chhattisgarh- A Cross-Sectional Study
7.	Incidence of Adverse Outcomes and Risk Factors for Mortality among Mucormycosis Patients in India: A Multi-Centric Ambispective Cohort Study, 2021-2022
8.	A Study to Assess the Attitude of Adults Towards COVID-19 Vaccination in India: An Online Cross-Sectional Study
9.	Prevalence and Determinants of Morbidity among Elderly in An Urban Slum of Raipur city – A Community based Cross Sectional Study
10.	Assessment of Nutritional Status of 6-23 Months Old Children Residing in an Urban Area of Raipur City
11.	Study of Unmet Need for Family Planning in Married Women of Age Group (18-49 years) in Urban Field Practice Area, AIIMS, Raipur
12.	A Study to Assess Difference in Medication Adherence with Use of a Newly Designed Medicine Calendar in Patients with Chronic Diseases: A Non Randomized before and after Trial without Control
13.	Prevalence of Health Risk behavior and Associated Life Skills among 15-19 Years of Adolescents in Urban Field Practice Area of AIIMS Raipur
14.	Estimation of out of Pocket Expenditure for Healthcare among under-Five Children of an Urban Slum in Raipur City

Sr. No.	Project
15.	Nutritional Assessment of Adolescent Females of Age 15-19 Years in an Urban Slum of Raipur City
16.	A Study to Determine the Prevalence and Determinants of Maternal Depression in an Urban Slum of Raipur City
17.	Assessment of Functioning of Health and Wellness Centres in the Rural Field Practice Area of Medical Institution at Raipur
18.	Assessment of Nutritional Status and Role of Parents in Rehabilitation of under-Five Children during Home based Management after Discharge from Nutritional Rehabilitation Centre of Raipur District
19.	Study of Cardiovascular Risk Assessment among Population using WHO ISH Risk Chart in an Urban Area of Raipur
20.	Assessment of Health Promoting Status of Schools in Raipur City
21.	Factors Influencing Non-Adherence to Multi-Drug Therapy and Effect of Electronic Message based-Health Education in Improving Adherence among the Patients with Hansen's Disease, AIIMS Raipur

### Completed

Sr. No.	Project
1.	Situational analysis of Water, Sanitation and Hygiene in Healthcare facilities (HCFs) of Raipur District (CG)
2.	Smartphone usage Prevalence, Patterns and Proneness for Dependence among Secondary and Higher Secondary School going Adolescents in Raipur City
3.	Mental Health Status of Food Handlers Serving in a Dedicated COVID Hospital: A Cross Sectional Study in Raipur
4.	Screening for Hypertension and Diabetes among adults residing at Urban Field Practice Area of AIIMS Raipur
5.	Epidemiology of Depression, Anxiety and Stress in Industrial Workers of Raipur

### Collaborative Projects

#### Ongoing

Sr. No.	Project	Collaborating Department/ Institution
1.	Community Behavior and its Determinants in Relation to Malaria Prevention and Control in Chhattisgarh (Multicentric Project) (Principal Investigator from CFM Department)	ICMR NIT, Raipur
2.	MINErVA (Mortality in India Established through Verbal Autopsies) Network – A Joint Initiative of Registrar General of India and AIIMS, New Delhi (Multicentric project) (Principal investigator from CFM Department)	AIIMS, New Delhi Directorate of Census Operations, Raipur, Chhattisgarh Directorate of Economics and Statistics, New Raipur, Chhattisgarh
3.	To Evaluate the Presence of Cross-Reactive Antibodies against the Spike Protein Variants (B.1.617) of SARS-CoV-2 in the Vaccinated People and Non-Vaccinated People who have Recovered from Natural Infection (Co-Investigator from CFM Department)	Department of Biochemistry, AIIMS Raipur
4.	Pan India Epidemiological, Virological and Genomic Surveillance for Human Influenza and COVID-19 through DHR-ICMR VRDL Network (Co-Investigator from CFM Department)	Department of Microbiology, AIIMS Raipur

Sr. No.	Project	Collaborating Department/ Institution
5.	A Clinical & Epidemiological profile of Patients with Chronic Kidney Disease of unknown Etiology attending AIIMS, Raipur, CG (Co-Investigator from CFM Department)	Department of Nephrology, AIIMS Raipur
6.	Implementation of NCDIR Electronic Mortality Software (NCDIR e-Mor)- strengthen Medical Certification of Cause of Death in AIIMS Raipur (Multi Centric Project) (Co-Investigator from CFM Department)	MRD, AIIMS Raipur
7.	A Feasibility Study for setting up Registry for Assessing the Determinants of Dialysis outcomes in India (Co-Investigator from CFM Department)	Department of Nephrology AIIMS Raipur
8.	Incidence of Adverse Outcomes and Risk Factors for Mortality among Mucormycosis Patients in India: A Multi-Centric Ambispective Cohort Study, 2021-2022 (ICMR NIE Project)(Co-Investigator from CFM Department)	Department of ENT, Head and Neck Surgery AIIMS Raipur
9.	Assessment of Nutritional Status and Role of Parents in Rehabilitation of under-Five Children during Home-Based Management after Discharge from Nutritional Rehabilitation Centres (NRCs) of Raipur District (Principal investigator from CFM Department)	Department of Paediatrics AIIMS Raipur
10.	Factors Influencing Non-adherence to multi-Drug Therapy and Effect of Electronic Message based-Health Education in Improving Adherence among the Patients with Hansen's Disease, AIIMS Raipur. (Principal Investigator from CFM Department)	Department of Dermatology AIIMS Raipur

### Completed

Sr. No.	Project	Collaborating Department/ Institution
1.	Correlation Study of Endothelial Function and Biomarkers in Patients of Sickle Cell Anemia at Chhattisgarh (Co-Investigator from CFM Department)	Department of Physiology AIIMS Raipur
2.	Determinants of Mortality due to COVID-19 in India (Co-Investigator from CFM Department)	Department of Pulmonary Medicine AIIMS Raipur
3.	Assessment of Transmission Dynamics and Epidemiological Determinants of COVID 19 in a Tertiary Care Teaching Hospital of India through Analysis of Contact Tracing Investigations (Principal Investigator from CFM Department)	Department of Microbiology AIIMS Raipur

## PUBLICATIONS

### Papers published in journals

1. Khede MK, Parija PP, **Ruikar MM**, Bhinjar SK. Determinants of adherence to antiretroviral therapy among people living with HIV/AIDS in Chhattisgarh, India. Int J Community Med Public Health 2022; 9(1):282-287
2. **Sharma H, Ruikar M.** Kangaroo mother care (KMC) for procedural pain in infants: A meta-analysis from the current evidence of randomized control trials and cross-over trials. J Family Med Prim Care 2022;11(4):1250-1256
3. Arora R, Jati M, Nagarkar NM, **Galhotra A**, Agrawal S, Mehta R, Naik T. Experience, challenges and outcome of implementing universal new born

- hearing screening in a medical college hospital set up. *Indian J otolaryngol Head Neck Surg* May2021; DOI: <https://doi.org/10.1007/s12070-021-02633-6>
4. Mathur P, Kulothungan V, Leburu S, Krishnan A, Chaturvedi H, Salve H, **et al.** Baseline risk factor prevalence among adolescents aged 15–17 years old: findings from National Non-communicable Disease Monitoring Survey (NNMS) of India. *BMJ Open* (2021); 11(6):e044066. DOI: <http://dx.doi.org/10.1136/bmjopen-2020-044066>
  5. Krishnan A, Mathur P, Kulothungan V, Salve H, Leburu S, Amarchand R, **et al.** Preparedness of primary and secondary health facilities in India to address major noncommunicable diseases: results of a National Noncommunicable Disease Monitoring Survey (NNMS). *BMC Health Services Research* 2021;21: 757. DOI: 10.1186/s12913-021-06530-0
  6. Pradhan ST, Chandrakar R, **et al.** Assessment of the impact of COVID-19 on drug store management in a tertiary care teaching hospital of Central India. *Cureus* 2021;13(11): e19723. DOI 10.7759/cureus.19723
  7. Agrawal S, Dayama S, **Galhotra A.** Pharmacovigilance in India: Do not take a chill pill. *International J of Current Research & Review* 2022;14(2); 93-96. DOI: <http://dx.doi.org/10.31782/IJCRR.2022.14215>
  8. Pal R, **Shukla A, Galhotra A,** Gaikwad U. Situational analysis of WASH facilities in maternity units of a district of Central India. *International J of Current Research & Review* 2022; 14(2); 1-7. DOI: <http://dx.doi.org/10.31782/IJCRR.2022.14207>
  9. Rathore V, Pal R, **Galhotra A,** Nayak S, Snehalata, Jha V, Nagarkar NM. Community perception of chronic kidney disease in Supebeda, Chhattisgarh. *International J of Current Research & Review* 2022; 14(2); 23-28; DOI: <http://dx.doi.org/10.31782/IJCRR.2022.1421>
  10. **Priya K, Padhy GK,** Kumar M. Care of caregivers – who is responsible? *Indian J Comm Health.* 2021;33(2):418-421. <https://doi.org/10.47203/IJCH.2021.v33i02.033>
  11. **Ekta K, Anjali P, Ashish K,** Kumar PS. Vast gap in iodization from production to plate - Hurdles in achieving universal salt iodization in India. *Journal of Family Medicine and Primary Care* 2022;11(3):847-851 doi: 10.4103/jfmpc.jfmpc\_999\_21
  12. **Pal A,** Panigrahi SK, Majumdar S. Comparative assessment of factors affecting anxiety levels among adults attending online meditation sessions during the COVID-19 pandemic: A cross-sectional study. *J Edu Health Promot* 2022, 11:84 DOI: 10.4103/jehp.jehp\_398\_21
  13. Jayasankar P, Manjunatha N, Rao GN, Gururaj G, Varghese M, Benegal V, NMHS India National Collaborator Group. Epidemiology of common mental disorders: Results from 'National Mental Health Survey' of India, 2016. *Indian J Psychiatry* 2022;64:13-9.
  14. Chhabra N, Sachdev D, **Shukla AK.** Knowledge, attitude and practice regarding topical steroids in dermatology outpatients: A cross-sectional study from a tertiary care hospital in Raipur, Chhattisgarh. *Indian Journal of Dermatology, Venereology and Leprology* 2021;87(3):429-432
  15. Punthir A, **Shukla AK,** Goel AD, Punthir P, Gupta MK, Parashar P, Varshney AM. Exploring unsafe sexual practices among truck drivers at Meerut District, India: a cross-sectional study. *African Health Sciences* 2021;21(2):547-556
  16. **Khobragade AW,** Kadam DD. Efficacy of tetravalent dengue vaccine: A systematic review and meta-analysis. *Indian J Community Med.* 2021 ;46(2):191-194. doi: 10.4103/ijcm.IJCM\_608\_20. Epub 2021 May 29. PMID: 34321724; PMCID: PMC8281852.
  17. **Khobragade AW,** Kadam DD. Spatial mapping and socio-demographic determinants of COVID-19 mortality in India. *Journal of Family Medicine and Primary Care* 2021;10(11):4200-4204 doi: 10.4103/jfmpc.jfmpc\_903\_21
  18. **Khobragade AW,** Kadam DD. Forecasting of Covid-19 cases in India by time series analysis

- using autoregressive integrated moving average. *Int J Cur Res Rev. 2nd Wave of COVID-19: Role of Social Awareness, Health and Technology Sector.* 2021; 178-181.
19. Vaishnavi B, **Mishra AK**. Health-seeking behaviour of patients with diabetes mellitus: A community-based cross-sectional study in an urban area of Pondicherry. *J Curr Res Sci Med* 2021;7:33-8.
  20. Dhanushia G, Sahu P, Sanjana EF, **Mishra AK**. Awareness on eye donation among medical and nonmedical students: A cross-sectional comparative study. *J Curr Res Sci Med* 2021;7:108-113.
  21. Wadwekar B, **Mishra AK**, Sahu P, Sanjana EF, Manikandan M. Burden of ocular trauma and its effect on vision: A community-based cross-sectional study in the coastal population of South India. *J Curr Res Sci Med* 2021;7:97-101.
  22. Mohanty L, Prabhu M, **Mishra AK**, Purty AJ, Kanungo R, Ghosh G et al. Safety and immunogenicity of a single dose, live-attenuated 'tetraivalent dengue vaccine' in healthy Indian adults; a randomized, double-blind, placebo controlled phase I/II trial. *Vaccine: X* 2022;10:100142.
  23. **Mohta A**, Malhotra S, Gupta SK, Kalaivani M, Patra BN, Nongkynrih B. Depression among adolescents in a rural area of Haryana, India: A community-based study using Patient Health Questionnaire-9. *Cureus.* 2021;13(9):e18388. DOI 10.7759/cureus.18388
  24. Puranik AK, Maity S, Meena SP, **Santra A**, Lodha M, Badkur M. Quality of life of patients with major amputations in tertiary care center of Western Rajasthan: A prospective observational study in 2019-2020. *Cureus.* 13(12):e204 19
  25. Jagadeesan S, **Muthathal S**, **Santra A**. Geriatric depression and its predictors in the National Capital Territory (NCT) of India – A quantitative study. *Tropical Doctor.* 2021; 1-5
  26. Jaiswal A, Shukla N, Singh SS, Shrivastava R, **Santra A**, Jaiswal A et al. Fighting against the pandemic or threatening the environment? Unforeseen challenges during COVID-19 pandemic. *International Journal of Community Medicine.* 2021 September;50(Supplement 1): 1-2 (Abstract published)
  27. **Priya PK**, Parijs PP, Kujur A. WHO recommendation and India's practice on tetanus vaccination. How much is too much? *Tropical doctor.* 2021 Apr 28: 00494755211010874.
  28. **Subramanian M**, Malhotra, Kant S, Goswami K, Perumal V, Kaloija G. Prevalence of anemia among adolescent girls residing in rural Haryana: A community-based cross-sectional study. *Cureus* 2022; 14 (1):e21091. DOI 10.7759/cureus.21091
  29. Kaur R, Kant S, **Subramanian M**, Kamble BD, Malhotra S, Halder P. Effectiveness of intravenous iron sucrose therapy in routine antenatal care for the treatment of moderate to severe anemia among pregnant women attending a secondary care hospital in North India: A retrospective analysis. *Cureus.* 2022; 14(3): e23603. DOI 10.7759/cureus.23603

## PATIENT CARE

CFM Department daily runs Immunization Clinic, Maternal & Child Health Clinic and Yellow Fever Vaccination Centre of AIIMS Raipur on every working Wednesday.

During 01.04.2021 to 31.03.2022, total 8139 beneficiaries (under five, adolescent, pregnant woman) and 218 travelers were vaccinated. Total 715 doses of Hepatitis B vaccine were administered to students and staffs of AIIMS, Raipur.

During 01.04.2021 to 31.03.2022, total OPD attendance at Urban Health Training Centre of AIIMS Raipur located at Community Hall, Bhavani Nagar, Raipur was 4649.



## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### AWARDS and HONOURS

#### Prof. (Dr.) Manisha Ruikar

1. Nominated as a member of Central Health Team to be deployed in the districts reporting majority cases of COVID-19; as per directives by MoHFW, GoI in April 2021.
2. Invited to attend meeting of standing selection committee as subject expert for recruitment of faculty AIIMS, Mangalagiri on 28<sup>th</sup> July 2021.
3. Chaired scientific oral session in IPHACON 2021 organized by JIPMER, Puducherry on 23<sup>rd</sup> September 2021.

#### Dr. Gouri Kumari Padhy

1. Member of Covid monitoring team –
  - A. Evaluation of covid centers at Rajnandgaon- April 2021
  - B. Three districts of Chhattisgarh -July 2021
2. Selected as top ten best presentation at the National level for World Health Day power point presentation competition for faculties – April 2021.
3. Chaired scientific oral session in IPHACON 2021 organized by JIPMER, Puducherry on 23<sup>rd</sup> September 2021.
4. Coordinator of National competition on Alzheimer and Older Persons organized by IAPSM and IMA in September-October 2021.

#### Dr. Muthathal S

Won the 1<sup>st</sup> prize in e-Poster presentation under Mental Health Theme in 65<sup>th</sup> Annual National Conference of Indian Public Health Association-2021 (23<sup>rd</sup> to 26<sup>th</sup> September 2021).

#### Dr. Veena G Dev & Dr. Sylvia George

Both these CFM JRs constituted a team, which was selected as one amongst the best five teams

out of 37 teams participated across the India; in the Final round of Quiz Competition held on 25<sup>th</sup> February 2022 at 49<sup>th</sup> National Conference of IAPSM, Nagpur.

#### Dr. Jyoti Pradhan

'Best Performer of the Day' in the HICC Workshop held on 17<sup>th</sup> December 2021 at AIIMS Raipur.

## SIGNIFICANT EVENT

### POSHAN ABHIYAN in Urban Field Practice Area during September to December 2021

**POSHAN ABHIYAN** was conducted by the Department of Community and Family Medicine at Urban Field Practice Area during September to December 2021 covering beneficiaries of all 17 Anganwadi Centres in UFPA to create awareness about healthy and hygienic nutritional practices amongst them.

Activities in the **POSHAN ABHIYAN** were conducted by a Team of CFM Senior Residents, Junior Residents and Interns. The beneficiaries in each session were adolescent girls, pregnant women, lactating mothers and mothers of under-five children. 25-30 beneficiaries attended each session.

In each session, after explaining objective of **POSHAN ABHIYAN**, power-point presentation was made on 'Seven groups of food' and 'Basic sanitary practices in cooking food'. To make the session more interesting, a video was shown on 'Effects of inadequate nutrition' followed by recitation of selected slogans by all the participants. Charts and Food Plates were prepared to explain nutritious content of each food. Knowledge and attitude of the participants was assessed in the concluding question-answers and they were informed about the healthy & hygienic nutritional practices.

Dr. Ashish Khobragade, Faculty-in-Charge of UHTC and his Team took efforts to make this **POSHAN ABHIYAN** a success; under the guidance and support of Prof. Dr. Manisha Ruikar, HoD CFM.

# Department of Dentistry

## Professor & Head of the Department

Dr. Virat Galhotra

## Additional Professor

Dr. Nakul Uppal

Dr. Santhosh Rao

Dr. Manish J. Raghani

## HIGHLIGHTS:

Department of Dentistry provides wide spectrum of patient care services ranging from routine essential general and advanced multi-specialty dental services to complex maxillofacial surgical procedures. The Dental treatment procedures includes dental implants, pedodontics, prophylactic, preventive, restorative, endodontic, prosthetic, orthodontic and minor outpatient surgery procedures. Four dental chairs are functional for delivering oral health care, and a full-fledged state-of-the-art setup is being commissioned.

Specialized services include Pediatric dental care and Oral and Maxillofacial surgical procedures. Pedodontics services are now provided for the entire gamut of specialized dentistry specific to pediatric patients. Maxillofacial Surgical team attends to Facial trauma, TMJ ankylosis, congenital anomalies like clefts, oral malignancy including microvascular reconstruction. The only unit in this part of the country to provide services like Total TMJ reconstruction, Orthognathic Surgery, Zygomatic implants. We have filed for IPR in TM joint designs.

The Department worked proactively in managing Mucormycosis during the second wave of COVID-19 pandemic. Apart from the primary care, we have

gone on to rehabilitate the unfortunate patients who underwent extensive resections of their jaws. We have our own designed patient specific implants for rehabilitation of these patients, for which we filed an IPR. Apart from this PSI we have rehabilitated patients using zygomatic implants also.

## EDUCATION

Lecture classes conducted for MBBS students comprising oral and dental topics with clinical relevance to a medical graduate. Dr. Nakul Uppal and Dr. Santhosh Rao took lectures for M.B.B.S. II Professional and I Professional on Research methodology. Initiated new academic activity DENTAL STUDY CLUB for multi-disciplinary dental case workup. Online distribution and collation of study material and testing was introduced for the PG students. Additional to their thesis, postgraduates are encouraged to conduct short term research and so they can present and publish their original research. A weekly academic schedule of seminars, journal clubs, case presentations and relevant summaries was implemented by the PG trainees with sessions moderated by the faculty. Academics, including classes by faculty for PGs, are conducted on all working days. Classes for the nursing students address oral health nursing considerations.

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCE

S. No.	Title	CME/Conference	Date	Organised By
1.	Challenging Horizons in Maxillofacial Surgery	National Hybrid CME	27 <sup>th</sup> July 2021	Department of Dentistry, AIIMS Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Virat Galhotra

S. No.	Title	CME/Conference	Date	Organised By
1.	Tobacco Control– Role of Dental Professional	CME on World No Tobacco Day	31 <sup>st</sup> May 2021	Lady Hardinge Medical College, New Delhi
2.	Endodontic Challenges, prevention, and its management in permanent molar	42 <sup>nd</sup> National ISPPD Conference	25 <sup>th</sup> -27 <sup>th</sup> November 2021	Indian Society of Pedodontics and Preventive Dentistry
3.	Advanced Clinical Training Workshop	Ankuram-2021 Workshop	18 <sup>th</sup> -19 <sup>th</sup> December 2021	D.Y Patil Dental School

### Dr. Santhosh Rao

S. No.	Title	CME/Conference	Date	Organised By
1.	Hypersensitivity	Online course Management of Medical Emergencies in Dental Practice in SWAYAM learning portal.	September 2021	NPTEL (National Program on Technology Enhanced Learning), Govt of India
2.	Mutual Expectation for best patient care – as expert in Panel Discussion	JSS OOOE Symposium	23 <sup>rd</sup> Sep 2021	JSS Dental College
3.	Facial Deformity Correction - as expert in Panel Discussion	CG MAXCON 2021 6th Annual State Conference of CG state chapter of AOMSI	31 <sup>st</sup> Oct 2021	Chhattisgarh chapter of AOMSI
4.	Maxillofacial Trauma - as expert in Panel Discussion	AOMSI Virtual Master class 2022	12 <sup>th</sup> March 2022	Association of Oral & Maxillofacial Surgeons of India
5.	Research Methodology - as expert in Panel Discussion	24th National Mid-Term Conference and Postgraduate convention	1 <sup>st</sup> Aug 2021	Association of Oral & Maxillofacial Surgeons of India
6.	Tobacco and Oral Cancer – A Silent Pandemic	CME on World No Tobacco Day	31 <sup>st</sup> May 2021	Faculty of Allied Health Sciences, JECRC University, India

S. No.	Title	CME/Conference	Date	Organised By
7.	COVID Associated Mucormycosis, Management of Post-COVID patients in Dentistry	CDE Indian Dental Association	17 <sup>th</sup> June 2021	Indian Dental Association, AP State Branch
8.	Management of Mucormycosis – Maxillofacial Surgeon's Perspective	Challenging Horizons in Maxillofacial Surgery, National Hybrid CME	27 <sup>th</sup> July 2021	Department of Dentistry, AIIMS Raipur
9.	Adjunct Surgical Procedures in Facial Esthetic Surgery	Conference on Facial Reconstructive and Esthetic Surgery, New Delhi	21 <sup>st</sup> - 22 <sup>nd</sup> August 2021	RST Facial Esthetics and Cosmetology
10.	Imaging in Maxillofacial Trauma – Then & Now	45 <sup>th</sup> Annual National Conference of AOMSI, Mangalore	2 <sup>nd</sup> – 4 <sup>th</sup> Dec 2021	Association of Oral & Maxillofacial Surgeons of India

### Dr. Manish J Raghani

S. No.	Title	CME/Conference	Date	Organised By
1.	Pan facial Fractures	24th National Mid-Term Conference and Postgraduate convention	30 <sup>th</sup> July 2021	Association of Oral and Maxillofacial Surgeons of India
2.	Surgical Management of Covid associated Mucormycosis	Hybrid CME on Multidisciplinary Management of Mucormycosis	28 <sup>th</sup> August 2021	Department of ENT, Head & Neck Surgery at AIIMS Raipur
3.	Oral Cancer Screening	Online Training Lecture for Medical Officers and RMA	6 <sup>th</sup> September 2021	National Program for Prevention and Control of Cancer, Diabetes, Cardiovascular Diseases, Stroke under NHM, MOHFW, Govt of India
4.	Mandibular Deformities	CG MAXCON 2021 6th Annual State Conference of CG state chapter of AOMSI	31 <sup>st</sup> Oct 2021	Chhattisgarh chapter of AOMSI
5.	Oral Hygiene Care	Invited Talk	30 <sup>th</sup> January 2022	Chhattisgarh Satsang Group

## ORAL PAPERS/POSTERS PRESENTED

### Dr. Nakul Uppal

S. No.	Title	CME/Conference	Date	Organised By
1.	Visual workflow tools to predict recurrence after resection: Novel prognostication using Gantt charts and Kanban boards for maxillofacial surgery	45 <sup>th</sup> Annual National Conference of AOMSI, Mangalore	2 <sup>nd</sup> – 4 <sup>th</sup> Dec 2021	Association of Oral & Maxillofacial Surgeons of India

S. No.	Title	CME/Conference	Date	Organised By
2.	Mucormycosis in dental patients after Covid-19 recovery: pre-operative, intra-operative and post-operative aspects of work-up, management and follow-up	24th National Mid-Term Conference and Postgraduate convention	1 <sup>st</sup> Aug 2021	Association of Oral & Maxillofacial Surgeons of India

### Dr. Santhosh Rao

S. No.	Title	CME/Conference	Date	Organised By
1.	Zygomatic Implants our experience at AIIMS Raipur	CG MAXCON 2021 6th Annual State Conference of CG state chapter of AOMSI	31 <sup>st</sup> Oct 2021	Chhattisgarh chapter of AOMSI
2.	Concomitant total temporomandibular joint replacement and Orthognathic surgery using indigenous patient specific implants in TMJ Ankylosis using Computer assisted surgical simulation (CASS)”	45 <sup>th</sup> Annual National Conference of AOMSI, Mangalore	2 <sup>nd</sup> – 4 <sup>th</sup> Dec 2021	Association of Oral & Maxillofacial Surgeons of India

### Dr. Manish J. Raghani

S. No.	Title	CME/Conference	Date	Organised By
1.	Mandibular distraction osteogenesis preceding Interpositional Arthroplasty - A novel protocol in Management of TM Joint Ankylosis”	45 <sup>th</sup> Annual National Conference of AOMSI, Mangalore	2 <sup>nd</sup> – 4 <sup>th</sup> Dec 2021	Association of Oral & Maxillofacial Surgeons of India

### Resident and Postgraduate Student presentations

S. No.	Presenter	Title	CME/Conference	Date	Organised By
1.	Dr. Niveda Jith K.V. & Dr. Nakul Uppal	Tuberculous osteomyelitis of zygomatic bone: A rare entity.	CG MAXCON 2021 6th Annual State Conference of CG state chapter of AOMSI	30 <sup>th</sup> October 2021	Chhattisgarh chapter of AOMSI
2.	Dr. Niveda Jith K.V. & Dr. Nakul Uppal	Post-Covid mucormycosis: Our experience in AIIMS, Raipur.	24th National Mid-Term Conference of Association of Oral & Maxillofacial Surgeons of India “MIDCOMS 2021” (Virtual)	31 <sup>st</sup> July 2021	Association of Oral & Maxillofacial Surgeons of India
3.	Dr. Niveda Jith K.V. & Dr. Nakul Uppal Dr. Manish Raghani	Unusual presentation of tuberculous osteomyelitis of facial bones: A rare entity	45th Annual National Conference of Association of Oral & Maxillofacial Surgeons of India at Mangalore	3rd December 2021.	Association of Oral & Maxillofacial Surgeons of India
4.	Dr. Niveda Jith K.V. Dr. Nakul Uppal	Recurrence among operated cases of post covid mucormycosis: Our experience	CG MAXCON 2021 6th Annual State Conference of CG state chapter of AOMSI	31 <sup>st</sup> October 2021	Chhattisgarh chapter of AOMSI

S. No.	Presenter	Title	CME/Conference	Date	Organised By
5.	Dr. Chakshu Bajaj & <b>Dr. Manish Raghani</b>	Changing concepts of InfectionControl practicesfollowed in Dental practice during covid times	CME on “COVID-19 impact on Infection Control practices amongst Health Care Workers”	21 <sup>st</sup> April 2021	AIIMS, Raipur.
6.	Dr. Chakshu Bajaj & <b>Dr. Manish Raghani</b>	A rare case of Ewing’s Sarcoma of Maxilla managed with multimodality approachto achieve optimal outcome	24th National Mid-Term Conference of Association of Oral & MaxillofacialSurgeons of India “MIDCOMS 2021” (Virtual)	29 <sup>th</sup> July 2021	Association of Oral & Maxillofacial Surgeons of India
7.	Dr. Chakshu Bajaj & <b>Dr. Manish Raghani</b>	Double Mandibular Access Osteotomy at unusual location for an access to parapharyngeal tumour gives outstanding access and extraordinary outcome	CG MAXCON 2021 6th Annual State Conference of CG state chapter of AOMSI	30th October 2021.	Chhattisgarh chapter of AOMSI
8.	Dr. Chakshu Bajaj & <b>Dr. Manish Raghani</b>	Case series on rare entity Ewing’s Sarcoma in Maxillofacial region managed with two different approaches- Multimodality approach vs Surgical approach	CG MAXCON 2021 6th Annual State Conference of CG state chapter of AOMSI	31st October 2021	Chhattisgarh chapter of AOMSI
9.	Dr. Chakshu Bajaj & <b>Dr. Manish Raghani</b>	Mucormycosis cases operated at our centre using Conservatively Radical approach, looking at patient’s perspective – AIIMS Raipur experience	45 <sup>th</sup> Annual National Conference of Association of Oral & Maxillofacial Surgeons of India at Managalore	3 <sup>rd</sup> December 2021.	Association of Oral & Maxillofacial Surgeons of India
10.	Dr. Subham S Agarwal & <b>Dr. Santhosh Rao</b>	Evaluation of recovery rate of facial nerve function in mandibular condyle fractures using electromyography- pilot study	24 <sup>th</sup> National Mid-Term Conference of Association of Oral & MaxillofacialSurgeons of India “MIDCOMS 2021” (Virtual)	29 <sup>th</sup> July 2021	Association of Oral & Maxillofacial Surgeons of India
11.	Dr. Subham S Agarwal & <b>Dr. Santhosh Rao</b>	Use of virtual surgical planning and patient specific implants (PSI) in maxillofacial rehabilitation: AIIMS Raipur experience (Prize paper winner)	CG MAXCON 2021 6th Annual State Conference of CG state chapter of AOMSI	31 <sup>st</sup> October 2021	Chhattisgarh chapter of AOMSI
12.	Dr. Subham S Agarwal & <b>Dr. Santhosh Rao</b>	Evaluation of recovery rate of facial nerve function in mandibular condyle fractures using electromyography (poster)	CG MAXCON 2021 6th Annual State Conference of CG state chapter of AOMSI	30 <sup>th</sup> October 2021	Chhattisgarh chapter of AOMSI
13.	Dr. Subham S Agarwal & <b>Dr. Santhosh Rao</b>	Concomitant total temporomandibular joint replacement and orthognathic surgery using patient specific implants in TMJ ankylosis- (free paper)	45 <sup>th</sup> Annual National Conference of Association of Oral & Maxillofacial Surgeons of India at Mangalore	3 <sup>rd</sup> December 2021.	Association of Oral & Maxillofacial Surgeons of India

S. No.	Presenter	Title	CME/Conference	Date	Organised By
14.	Dr. Frijo Xavier & <b>Dr. Santhosh Rao</b>	Transcranial orbital reconstruction using patient specific implant prosthesis in a patient with craniofacial fibrous dysplasia	24 <sup>th</sup> National Mid-Term Conference of Association of Oral & Maxillofacial Surgeons of India "MIDCOMS 2021" (Virtual)	29 <sup>th</sup> July 2021	Association of Oral & Maxillofacial Surgeons of India
15.	Dr. Frijo Xavier & <b>Dr. Santhosh Rao</b>	Use of virtual surgical planning and patient specific implants in maxillofacial rehabilitation: AIIMS Raipur experience	45 <sup>th</sup> Annual National Conference of Association of Oral & Maxillofacial Surgeons of India at Mangalore	3 <sup>rd</sup> December 2021.	Association of Oral & Maxillofacial Surgeons of India
16.	Dr. Frijo Xavier & <b>Dr. Santhosh Rao</b>	Transcranial orbital reconstruction using patient specific implant prosthesis in a patient with craniofacial fibrous dysplasia	CG MAXCON 2021 6 <sup>th</sup> Annual State Conference of CG state chapter of AOMSI	30 <sup>th</sup> October 2021	Chhattisgarh chapter of AOMSI
17.	Dr. Preetha Anand & <b>Dr. Manish Raghan</b>	Covid-19 impact and infection control during the Pandemic – The Dentist Perspective	CME on "Covid-19 impact on Infection Control practices amongst Health Care Workers" at AIIMS, Raipur	21 <sup>st</sup> April 2021	
18.	Dr. Preetha Anand & <b>Dr. Manish Raghan</b>	An unusual presentation of Rhinocerebral Mucormycosis	24 <sup>th</sup> National Mid-Term Conference of Association of Oral & Maxillofacial Surgeons of India "MIDCOMS 2021" (Virtual)	29 <sup>th</sup> July 2021	Association of Oral & Maxillofacial Surgeons of India
19.	Dr. Preetha Anand & <b>Dr. Manish Raghan</b>	Lingual Nerve Schwannoma – A case report	CG MAXCON 2021 6 <sup>th</sup> Annual State Conference of CG state chapter of AOMSI	30 <sup>th</sup> October 2021	Chhattisgarh chapter of AOMSI
20.	Dr. Preetha Anand & <b>Dr. Manish Raghan</b>	Challenges in Management and Rehabilitation of Mucormycosis	CG MAXCON 2021 6 <sup>th</sup> Annual State Conference of CG state chapter of AOMSI	31 <sup>st</sup> October 2021	Chhattisgarh chapter of AOMSI
21.	Dr. Preetha Anand & <b>Dr. Manish Raghan</b>	Unusual presentation of tuberculous osteomyelitis of facial bones	45 <sup>th</sup> Annual National Conference of Association of Oral & Maxillofacial Surgeons of India at Mangalore	2 <sup>nd</sup> December 2021.	Association of Oral & Maxillofacial Surgeons of India
22.	Dr. Preetha Anand & <b>Dr. Manish Raghan</b>	A rare case of Osteomyelitis of Maxilla secondary to osteopetrosis in brothers	45 <sup>th</sup> Annual National Conference of Association of Oral & Maxillofacial Surgeons of India at Mangalore	3 <sup>rd</sup> December 2021.	Association of Oral & Maxillofacial Surgeons of India
23.	Dr. Parimala Ambati & <b>Dr. Virat Galhotra</b>	Nasoalveolar molding : glowing up smiles	PEDODISHA 2021 42 <sup>nd</sup> ISPPD Conference	27 <sup>th</sup> November 2021	Indian Society of pedodontics and preventive Dentistry
24.	Dr. Rittik Chakraborty & <b>Dr. Nakul Uppal</b>	Excision of ranula preceded by instillation of hydrocolloid matrial	CG MAXCON 2021 6 <sup>th</sup> Annual State Conference of CG state chapter of AOMSI	30 <sup>th</sup> October 2021	Chhattisgarh chapter of AOMSI

## RESEARCH

### Funded Projects

#### Ongoing:

S. No.	Project	Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	Rate of Tooth Movement in Injectable PRP as Compared to Micro-Osteoperforation in Orthodontic Patients an Open Label Randomized Control Trial	Dr. Manish Raghani	Funded by AIIMS Raipur under Intra Mural Grant	12 Months	2021- 2022	5 lakhs
2.	Reinfection with Severe Acute Respiratory Syndrome Coronavirus-2 (SARS CoV-2) among healthcare workers in India	Dr. Santhosh Rao as Co-Investigator	Funded By ICMR	15 Month	2021 - 2023	10 Lakhs

#### Completed Project:

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	Evaluate the functional, esthetic and quality of life outcome in patient with Temporomandibular joint Ankylosis undergoing Concomitant Orthognathic surgery with Joint Reconstruction using vascularized second metatarsal graft: A Pilot Study	Dr. Santhosh Rao	AIIMS Raipur	2 Years	2019 - 2021	5 Lakhs
2.	Prospective evaluation of functional and radiological treatment results of mandibular condylar head (Diacaptular) and/or Neck fractures using Open Reduction and Internal Fixation and Closed reduction.	Dr. Manish Raghani	AIIMS Raipur	1 Year	2018 -2019	5 Lakhs

## Departmental Projects

### Non-Funded Projects

#### Ongoing

S. No.	Project
1.	Site based comparative analysis of sample collection through direct biopsy and nasal swab collection for early diagnosis of post-COVID rhinomaxillary fungal infection using KoH mounting. A Retrospective Cohort Study.
2.	Evaluation of the Effect of Prosthodontic Rehabilitation on Quality of Life and Psychological Distress in Maxillectomy Patients after Post-Covid Mucormycosis - a Prospective clinical Study.
3.	Evaluation of the time taken for surgical removal of impacted disto-angular mandibular third molar using modified tooth sectioning technique compared to conventional technique- A Randomized Controlled Clinical Trial.



**Completed**

S. No.	Project
1.	Clinical profile of Post Covid Mucormycosis in relation to the oral manifestations.
2.	Psychological Distress Fear and Anxiety amongst Dental practitioners in India during COVID -19 pandemic: Nationwide Online survey

**Student STS Projects**

S. No.	Faculty	Title
1.	Dr. Nakul Uppal	Medical undergraduates' Knowledge, Attitudes and Practices in Dental Self-care: an Analytical Cross-sectional study

**Thesis/Dissertations****Ongoing**

S. No.	Resident	Title
1.	Dr. Niveda Jith K.V Oral & Maxillofacial Surgery	Application of Radionuclide Scan in patients with TMJ Arthritis: A Prospective Observational Study
2.	Dr. Chakshu Bajaj Oral & Maxillofacial Surgery	Spectrum of Maxillofacial Surgical problems presenting to, AIIMS Raipur: A Cross-sectional, descriptive, observational study.
3.	Dr. Subham Agarwal Oral & Maxillofacial Surgery	Comparative assessment of facial nerve function in transmassetric anterior parotid approach and trans-parotid approach for open reduction and internal fixation of Mandibular condylar fractures –A RCT
4.	Dr. Frijo Xavier Oral & Maxillofacial Surgery	Assessment of Functional Neurosensory Recovery of Mental Nerve, following its skeletonization in patients undergoing Intraoral Open Reduction and Internal Fixation for Mandibular Fractures – A Prospective Cohort Study
5.	Dr. Preetha Anand Oral & Maxillofacial Surgery	Sutured versus suture less anterior releasing incision of triangular flap following surgical removal of impacted mandibular third molars: A single blinded randomized controlled trial
6.	Dr. Rittik Chakraborty Oral & Maxillofacial Surgery	Efficacy of cold saline irrigation in reduction of post-operative pain, swelling and trismus of impacted mandibular third molar surgery
7.	Dr. Parimala Ambati Paediatrics and Preventive Dentistry	Oral and Dental changes in Pediatric patients with malignancy receiving chemotherapy

**Completed**

S. No.	Resident	Title
1.	Dr. Samridhi Burman Oral & Maxillofacial Surgery	Comparison of hybrid arch bar versus conventional arch bar for temporary maxillomandibular fixation during treatment of jaw fractures: a randomized controlled trial
2.	Dr. Lekheshwar Yadav Forensic Medicine & Toxicology	Study of sexual dimorphism in Mandibular canines using mandibular canine index in patients attending Dental OPD at AIIMS Raipur

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/ Institution
1.	Reinfection with Severe Acute Respiratory Syndrome Coronavirus-2 (SARS CoV-2) among healthcare workers in India	General Medicine General Surgery

## PUBLICATIONS:

- Goel P, **Galhotra V**, Makkar S, Mohan J, Bala N, Kaur T. An In Vitro Study Comparing the Antimicrobial Efficacy of 0.2% Chitosan, 3% Sodium Hypochlorite, 2% Chlorhexidine against *Enterococcus faecalis*, Alone and in Conjunction with Diode Laser. *Int J Clin Pediatr Dent* 2022; 15 (1):109-114.22.
- Galhotra V, Rao S**, Goel P. Talons cusp in a primary maxillary central incisor: A Report of a rare odontogenic anomaly. *J Indian Soc Pedodontics Prev Dent.* 2022;40(1):90-3.
- Uppal N**, Hafeez A, Nasimuddin HMA, Xavier F, Gupta AK. Post-traumatic tuberculosis of Zygoma – An uncommon presentation. *J Stomatol Oral Maxillofac Surg.* 2021;S2468-7855(21)00277-9.
- Rao S**, Pandey S, Konuri VK, Khandelwal E. Vascularized Second Metatarsal Joint Transfer with Concomitant Orthognathic Surgery for Reconstruction of the Temporomandibular Joint: Our Pilot Experience. *Journal of Maxillofacial and Oral Surgery.* 2022;21(1):58-63.
- Rao S**, Rao S. The Clinical Characteristics and Surgical Treatment of Glossopharyngeal Neuralgia With Pain Radiating to the Innervated Area of the Trigeminal Nerve. *J Oral Maxillofac Surg.* 2021;79(5):954.
- Mishra JK, De M, Sahu SA, Arora RD, **Raghani MJ**, Nagarkar NM. Management of a Late Presentation of Bear Mauling with a Complex Maxillofacial Defect in a Tertiary Care Hospital - A Case Report. *Ann Maxillofac Surg.* 2021 Jul-Dec;11(2):359-362.

## PATIENT CARE

Dentistry department focuses on providing comprehensive treatment and catering towards dental needs of general population. On outpatient basis, we perform dental procedures like root canal treatment, dental extraction, restoration of decayed teeth. Oral prophylaxis for patients undergoing total hip replacements and cardiac surgeries is provided. We specialize in providing rehabilitation of dentate and non-dentate segment using dental implants, zygoma implants, patient specific implants and also maxillofacial prosthesis. Our department has recognized to follow advancements in the field and have been associated with virtual planning and surgical simulation for compromised cases including maxillectomy defects in post COVID- Mucormycosis.

Dentistry has evolved in managing paediatric patients with severe early childhood caries by effective therapeutic measures under general anaesthesia and has been instrumental in providing preventive measures and imparting education to nursing mothers. The patient from every age group is recipient of quality treatment here at AIIMS- Raipur. The surgical team in Oral and Maxillofacial surgery has managed cases of congenital defects like cleft lip and palate, orthomorphic corrections of jaw deformities, pathologies like carcinoma of oral cavity and other benign odontogenic and non-odontogenic cysts and tumours. Apart from extirpative surgery our team is skilled to perform reconstructive surgeries with local and distant flaps. Maxillofacial trauma and jaw fractures has been the majority of cases and is backed up with well-equipped trauma center. We respect the principles of repair within golden hour and our residents are available to treat and repair any traumatic injuries of face. Apart from orthodontic alignment of adult, presurgical alignment of

collapsed maxillary segments, nasolaveolar moulding in complete cleft cases, obturator needs for feeding in neonates are carried out on regular basis.

Patients habituated with tobacco are identified and adequately counselled in Dental OPD for quitting. This special population are recognized and followed regularly to prevent development of cancerous lesions and provide early treatment whenever necessary. Premalignant lesions and conditions are diagnosed and managed conservatively with intralesional injections to improve quality of life. Dentistry department is emerging and will continue to strive in providing quality care to patients.

## PATEINTS CARE

OPD	IPD	Major OT	Minor Surgery	Procedures	Implants
14196	528	435	595	15400	189

## AWARDS, HONOURS AND EVENTS

- Dr. Subham Agarwal and Dr. Preetha Anand Post graduate residents in Oral & Maxillofacial Surgery won the best paper presentation in CG MAXCON
- 2021 - 6th Annual State Conference of CG state chapter of AOMSI on 31<sup>st</sup> October 2021.
- Dr. Parimala Ambati Post graduate resident in Paediatrics and Preventive Dentistry won best poster at PEDODISHA 2021 42nd ISPPD Conference on 27 November 2021.
- Dr. Santhosh Rao was Nominated by AIIMS Raipur for country specific training in Oncology by Japan International Cooperation Agency (JICA) under Kagawa University, Japan
- IPR Filed during the 2021- 2022
  - i. Custom TMJ Condyle “AN IMPLANT” Patent application no 350556-001 by Dr. Santhosh Rao
  - ii. Custom TMJ fossa “ AN IMPLANT” Patent application no 350557-001 by Dr. Santhosh Rao
  - iii. Custom Periosteal Implant for Maxillary Reconstruction Patent application no 355476-001 by Dr. Santhosh Rao & Dr. Virat Galhotra
- Celebrated World Oral Health Day, on 21-03-2022 at the Department with demonstration at the main dome of the hospital area.

# Department of Dermatology

## Associate Professors

Dr. Satyaki Ganguly (Head)

Dr. Namrata Chhabra Sharma

## Assistant Professor

Dr. Neel Prabha

## HIGHLIGHTS

Post-graduate students Dr. Susmita Banra won the ICMR post graduate thesis grant. Post graduate students Dr. Ritul Choudhary and Dr. Anju George were placed first in the combined state round of IADVL-GSK Quiz for the states of Odisha and Chhattisgarh. Dr. Anju George, Dr. Ritul Choudhary and Dr. Jemshi Rahim won the first, second and third prizes respectively for award paper presentations in CUTICON CG 2021 on 19.12.2021. Dr. Anju George and Dr. Jemshi Rahim won appreciation awards for paper presentation in MID DERMACON 2021 at Mangalore from

28<sup>th</sup> to 30<sup>th</sup> October 2021.

## EDUCATION

The Department conducted an E-poster competition on the occasion of the World Vitiligo day on 25<sup>th</sup> June, 2021 and awarded prizes for three best posters. The first post graduate examination was conducted on 28<sup>th</sup> July, 2021 and department's first post graduate candidate successfully cleared the examination.

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Satyaki Ganguly

S. No.	Title	CME/Conference	Date	Organised By
1.	Recent advances in investigations and management of lepra reactions	Recent trends on Leprosy 2020	12.08.2021	RLTRI, Raipur
2.	Disorders of Nail	CME on Foot	21.08.2021	Dept. of Orthoedics, AIIMS Raipur
3.	Integrating biologics in clinical practice	eMID- CUTICON CG 2021	05.09.2021	IADVL-Chhattisgarh branch
4.	Impact of COVID on the management of inflammatory/ autoimmune skin diseases	MID DERMACON 2021	29.10.2021	IADVL- Karnataka branch
5.	How to manage complicated cases in psoriasis	Basics-4 Dermatology Symposium	31.10.2021	IADVL- Telangana branch
6.	COVID-19 and psoriasis	IADVL ASCENT E-Workshop	14.11.2021	IADVL
7.	Psoriasis management in COVID 19 pandemic	eCUTICON-KN	19.12.2021	IADVL- Karnataka branch
8.	Difficult to manage psoriasis patients	CUTICON- CG 2021	19.12.2021	IADVL- Chhattisgarh branch

**Dr. Namrata Chhabra Sharma**

S. No.	Title	CME/Conference	Date	Organised By
1.	Prophylaxis in Leprosy”	RESIMED KN DERM(web)	15.01.2022	IADVL, Karnataka Branch
2.	Relapse or recurrences in leprosy, diagnosis and management	IADVL Online training module on “Leprosy-current challenges”	23.11 .2021	IADVL
3.	Naevoid dermatoses	8 <sup>th</sup> PGCON 2021	25.09.2021	IADVL
4.	Panelist on topic “Chronic telogen effluvium, evidence and experiences”	MID-CUTICON Delhi 2021	11.07.2021	IADVL-Delhi State Branch
5.	Dermatology Potpourri: Interesting Cases	CME on “Basic and Recent advances in Dermatology”	05.04.2021	Shri Shankara Institute of Medical Sciences, Bhilai
6.	Hand hygiene	HICC workshop on “Infection Control Practices” for PG-JR	15.12.2021 & 17.12.2021	HICC, AIIMS Raipur

**Dr. Neel Prabha**

S. No.	Title	CME/Conference	Date	Organised By
1.	Varied clinical presentation of cutaneous rhinosporidiosis: An overview and our experience	eMID- CUTICON CG 2021	05.09.2021	IADVL- Chhattisgarh branch
2.	Black fungus of skin: Is it real?	CUTICON CG 2021	18.12.2021 to 19.12.2021	IADVL- Chhattisgarh branch

**ORAL PAPERS/POSTERS PRESENTED**

S. No.	Authors	Title	Conference	Date	Organised By
1.	Dr. Namrata Chhabra Sharma	A cross-sectional study to assess the role of dermoscopy in analysis of periorbital melanosis	16 <sup>th</sup> Spring Symposium of EADV	06.05.2021 & 07.05.2021	EADV

**RESEARCH****Funded Projects****Ongoing**

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	HLA association in leprosy patients from an endemic area of central India :A case- control study	Dr. Neel Prabha	AIIMS, Raipur	1 year 8 months	2021-2022	5 lakhs

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
2.	To study the effectiveness and safety of Prednisolone and Colchicine in comparison with Prednisolone alone in the treatment of moderate and severe Erythema Nodosum Leprosum: An open label randomized controlled trial.	Dr. Namrata Chhabra Sharma	IADVL	2 years	2021-2023	76,000
3.	A multicentric randomized controlled trial (RCT) to compare the efficacy and safety of WHO MDT MBR (multi-bacillary regimen) with daily Rifampicin versus WHO MDT MBR (multi-bacillary regimen) with placebo in highly bacillated Multibacillary Leprosy patients	Dr. Namrata Chhabra Sharma	IADVL	2 years	2022-2024	6.99, 500

### Departmental Projects – Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations

#### Ongoing

S. No.	Project
1.	Patch testing and quality of life among foot eczema patients in a tertiary care institute of Central India
2.	Bacterial skin infection in pemphigus vulgaris and its correlation with the disease severity: A hospital-based cross-sectional study
3.	Comparison of the efficacy of topical methotrexate 1% gel versus topical betamethasone dipropionate 0.05% lotion in the treatment of localized scalp alopecia areata in a tertiary care institute of Central India: A Randomized control trial
4.	Clinico-epidemiological profile and the risk factors associated with the severity of pediatric atopic dermatitis-A cross sectional study
5.	A cross sectional study of dermatological manifestations in chronic kidney disease patients in a tertiary care institute of Central Ind A cross sectional study of dermatological manifestations in chronic kidney disease patients in a tertiary care institute of Central India

#### Completed

S. No.	Project
1.	Serum Levels of Interleukin 17 and 25 hydroxyvitamin D in nonsegmental vitiligo patients: A case Control study
2.	Comparison of Serum Levels of Interleukin 17 And Interleukin 9 in Leprosy Patients with and without Lepra Reaction
3.	Efficacy and Safety of Intralesional Candida Albicans Antigen Versus Intralesional Mumps Measles Rubella Vaccine in the Treatment of Multiple Cutaneous Warts: A Double Blinded Randomized Controlled Trial
4.	Characteristics and Risk Factors for Chronic Kidney Disease in Patients with Hansen's disease
5.	Impact of corona pandemic on chronically-ill dermatological patients: an outpatient based cross-sectional study
6.	Knowledge, attitude and perception regarding leprosy in newly diagnosed patients of Hansen's disease: a hospital based study

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/ Institution
1.	Expression of Interleukin 37 and NLRP3 Inflammasome in the skin lesions of Leprosy: An immunohistochemical evaluation	Dept. of Pathology, AIIMS Raipur

### Completed

S. No.	Project	Collaborating Department/ Institution
1.	Diagnostic utility of PCR in detection of clinical cases and carriers of leprosy: A cross sectional study at a tertiary care teaching hospital in central India	Dept. of Microbiology, AIIMS Raipur

## PUBLICATIONS

- Ahmed G, Khare S, **Prabha N.** (2021) Phthiriasis palpebrarum and outpatient-based education: scooping beyond treatment. *Egypt J Dermatol Venerol* 41:53-4.
- Ahmed G, **Prabha N, Ganguly S.** (2021) Familial steatocystoma multiplex generalisata suppurativa: Oral rifampicin and clindamycin combination worth a trial. *Indian J Dermatol* 66:553-5.
- Chhabra N,** Sharma H, Hussain N. (2022) POEMS Syndrome: Skin Lesions Bringing the Jigsaw Puzzle Together. *Skinmed* 20:66-68.
- Bhardwaj A, Gupta SK, Narang T, Suneetha S, Pradhan S, Agarwal P, Suvirya S, Gupta A, **Chhabra N,** Rao AG, Ashwini PK, Jandhyala S, Rathod S, Rao PN, Dogra S. (2021) Updates on Management of Leprosy in the Context of COVID-19 Pandemic: Recommendations by IADVL SIG Leprosy. *Indian Dermatol Online J* 12(Suppl 1):S24-S30.
- Chhabra N.** (2021) *Povidone-iodine in dermatology: A reappraisal. CosmoDerma* 1:51.
- Khatoon S, Negi SS, **Chhabra N,** Bhargava A, Das P, Singh P, Sharma S. (2022) Diagnostic utility of PCR in detection of clinical cases and carriers of leprosy: A cross sectional study at a tertiary care teaching hospital in central India. *Indian J Med Microbiol* 40:105-108.
- Chhabra N,** Sharma H. (2021) Pearls for Dermatology Residency. *Indian Dermatol Online J* 12:762-764.
- Chhabra N.** (2021) Periocular fixed drug eruption presenting as periorbital hypermelanosis: Clinical diagnosis aided by dermoscopy. *Indian J Paediatr Dermatol* 22:172-3.
- Parthasaradhi A, **Ganguly S,** Kar BR, Thomas J, Neema S, Tahiliani S, et al. (2022) Coronavirus disease 2019 vaccination in patients with psoriasis: A position statement from India by SIG psoriasis (IADVL Academy). *Indian J Dermatol Venereol Leprol* 21:1-6.
- Singh A, Bharadwaj SJ, Chirayath AG, **Ganguly S.** (2022) Development of severe pemphigus vulgaris following ChAdOx1 nCoV-19 vaccination and review of literature. *J Cosmet Dermatol* doi: 10.1111/jocd.14945. [Epub ahead of print].
- Ahmed G, George C A, **Ganguly S.** (2022) Post-COVID-19 biologically false-positive VDRL: A report. *Int J STD AIDS* 33:525-526.
- Ahmed G, **Ganguly S,** Choudhary R, George CA. (2022) Progressive Symmetric Erythrokeratoderma with Overlying Psoriasis as Wolf's Isotopic Phenomenon: A Case Report. *Indian Dermatol Online J* 13:272-274.
- Singh A, Choudhary R, **Ganguly S.** (2022) Podophyllin in Dermatology: Revisiting a Historical Drug. *Indian Dermatol Online J* 13:167-171.

14. Rajagopalan M, Chatterjee M, De A, Dogra S, **Ganguly S**, Kar BR, et al. (2021) Systemic Management of Psoriasis Patients in Indian Scenario: An Expert Consensus. Indian Dermatol Online J 12:674-682.
15. Sahu T, Verma HK, **Ganguly S**, Sinha M, Sinha R. (2021) Common, But Neglected: A Comprehensive Review of Leg Ulcers in Sickle Cell Disease. Adv Skin Wound Care 34:423-431.

### Chapter(s) in Books

S. No.	Author(s)	Chapter Title	Editor	Book	Edition	City of Publication	Publisher	Year of Publication	First page-Last page
1.	Dr. Neel Prabha	Skin cancer	Jagdeep Arora, Ripu Daman Arora	Operative Surgery for Head and Neck Tumours	First	Boca Raton	CRC Press Taylor & Francis Group	2022	1-262
2.	Dr. Neel Prabha	Clinical Presentation: Dermatological Spectrum	Nitin M. Nagarkar & Rupa Mehta	Rhinosporidiosis	First	Singapore.	Springer Nature	2022	1-101
3.	Dr. Satyaki Ganguly	Other metabolic disorders	Koushik Lahiri and Abhishek De	Postgraduate Dermatology	First	New Delhi	Jaypee Brothers Medical Publishers	2021	565-570

### PATIENT CARE

	OPD	IPD	Minor OT	Tests	Special Clinics	Phototherapy
Total	29323	244	2746	1601	53	106

### AWARDS, HONOURS AND SIGNIFICANT EVENTS

Dr. Satyaki Ganguly was a panelist for panel discussions 'Managing difficult psoriasis' in DERMACON 2022(Virtual conference)- 4th February 2022, 'Difficult psoriasis' in 'IADVL ASCENT E-Workshop' – 14th November 2021, 'WHO Roadmap for NTDs 2021-2030: Scope and challenges in skin NTDs integrated control.' and 'Negotiating our practice during the pandemic' in MID DERMACON 2021 at Mangalore, Karnataka- 30th October 2021,

and 'Management of Psoriasis in COVID-19 era' in Virtual CME 'Psoriasis updates'- 29<sup>th</sup> August 2021. He was a moderator for panel discussion 'Interesting cases which pose difficulty in diagnosis/treatment' in CME (Virtual CME) on Neglected Tropical diseases'- 21st August 2021. Dr. Namrata Chhabra Sharma was a panelist for panel discussions 'Newer treatments options in leprosy' in DERMACON 2022(Virtual conference) - 4th February 2022. Dr. Neel Prabha was selected as an assistant editor for textbook titled "Practical Manual of Leprosy' by IADVL.



# Department of Endocrinology & Metabolism

## Assistant Professor

Dr. Amritava Ghosh (In-Charge)

## HIGHLIGHTS

DEXA System was inaugurated in the department by Prof. (Dr.) Nitin M Nagarkar, Director, AIIMS, Raipur on World Osteoporosis Day on 20th October, 2021. The Department in association with Department of General Medicine organized "ENDOMED, AIIMS,

Raipur, World Diabetes Day Celebration- 2021 Hybrid CME on Diabetes and Postgraduate Quiz" on 13th - 14th November, 2021. The department started the special clinics on neuroendocrinology and pituitary clinic, growth and development clinic, diabetes in pregnancy clinic.

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES

S. No.	Title	CME/Conference	Date	Organised By
1.	ENDOMED, AIIMS, Raipur, World Diabetes Day Celebration- 2021 Hybrid CME on Diabetes and Postgraduate Quiz	World Diabetes Day awareness program, CME, and postgraduate quiz	13th - 14th November, 2021	Department of Endocrinology & Metabolism in association with Department of General Medicine, AIIMS, Raipur

## LECTURE DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCE

### Dr. Amritava Ghosh

S. No.	Title	CME/Conference	Date	Organised By
1.	Diabetes Management in COVID-19 Patients	Webinar on Comorbidity Management for COVID-19 Patients	24.04.2021	World Health Organization, India Govt. of Chhattisgarh National Health Mission
2.	Diabetes Mellitus Management in COVID-19	Clinical Excellence Programme, Interactive Webinar Series on COVID-19 Management	15.06.2021	AIIMS, Raipur; SIHFW
3.	Diet, Micronutrients and Thyroid Health	4E Webinar(Electronic Endocrine Enrichment by Experts)	03.12.2021	Endocrine Society of Bengal
4.	Diabetes and Hypothyroidism	4 <sup>th</sup> CG State RSSDI	26.03.2022	RSSDI Chhattisgarh Chapter

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	Role of Infrared Thermometry in the Management of Diabetic Foot Osteomyelitis	Dr. Amritava Ghosh	AIIMS, Raipur	2½	2022-2024	Rs. 5,00,000

## Departmental Projects – Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations

### Ongoing

S. No.	Project
1	A Pilot Study Evaluating Techniques of Ultrasonography Guided Percutaneous Ethanol Injection in Treatment of Cystic and Predominantly Cystic Thyroid Nodules
2	A Retrospective Study on the Clinical Profile of People with Diabetes Mellitus Hospitalized with Covid-19
3	Glycemic Control Among People with Diabetes Mellitus Hospitalized for Mucormycosis
4	Role of Statins as Adjuvant Therapy in the Management of Mucormycosis

### Collaborative Projects

#### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Intensive Glycemic Control for Diabetic Foot Ulcer Healing: A Multicentric Randomized Controlled Study (IN-GLOBE study)	Department of Endocrinology & Metabolism; Post Graduate Institute of Medical Education & Research, Chandigarh
2.	Evaluation of Efficacy and Safety of Hydroxychloroquine when Used as an Add-on Therapy in Type 2 Diabetes Patients Uncontrolled on Metformin Monotherapy: A Randomized Double-blind, Placebo-controlled Study	Department of General Medicine, All India Institute of Medical Sciences, Raipur
3.	Association Between p53 Codon 72 Polymorphism and Diabetic Polyneuropathy in Type 2 Diabetes Mellitus: A Pilot Study	Department of Physiology, All India Institute of Medical Sciences, Raipur
4.	Study of BRAF V600E mutations in a cohort of thyroid lesions using immunohistochemistry (IHC) and polymerase chain reaction (PCR)	Department of Pathology & Lab Medicine, All India Institute of Medical Sciences, Raipur
5.	Evaluation of Maternal and Fetal Outcomes in Women Diagnosed with GDM or Normoglycaemia using IADPSG Criteria, Among Women Diagnosed with Normoglycaemia by DIPSI Criteria: Prospective Multi-centre Observational Cohort Study	Department of Obstetrics & Gynaecology, All India Institute of Medical Sciences, Raipur
6.	Correlation of Dual Energy X-ray Absorptiometry with Markers of Bone Metabolism in Femur Fractures	Department of Orthopaedics, All India Institute of Medical Sciences, Raipur
7.	A Cross Sectional Observational Study of the Prevalence of Dry Eye Among Type 1 and Type 2 Diabetic Patients	Department of Ophthalmology, All India Institute of Medical Sciences, Raipur
8.	Use of Ambulatory Glucose Profile in Effective Monitoring and Control of Gestational Diabetes Mellitus	Department of General Medicine, All India Institute of Medical Sciences, Raipur
9.	Comparison of Retinal Nerve Fibre Layer and Ganglion Cell Complex Thickness in Type 1 and Type 2 Diabetes Mellitus Patients with Equal Duration of Disease: A Cross Sectional Comparative Observational Study	Department of Ophthalmology, All India Institute of Medical Sciences, Raipur

S. No.	Project	Collaborating Department/Institution
10.	Metformin versus Insulin therapy for Glycaemic Control in Pregnant Women with GDM: An Open Label Randomized Control Trial	Department of Obstetrics & Gynaecology, All India Institute of Medical Sciences, Raipur
11.	Prevalence of Neuropathy in Graves' Disease	Department of General Medicine, All India Institute of Medical Sciences, Raipur
12.	Clinical Correlates of Insulin Resistance in Patients of First-episode Schizophrenia and their First Degree Relatives – A Cross-Sectional Study	Department of Psychiatry, All India Institute of Medical Sciences, Raipur
13.	Effect of Vitamin D3 Supplementation on Glycaemic Control and Cardiovascular Risk in Type 2 Diabetes Mellitus Patients with Vitamin D Insufficiency: A Randomized Open-labelled Parallel Group Two Arm Study	Department of Pharmacology, All India Institute of Medical Sciences, Raipur
14.	Assessment of Left Ventricle Myocardial Performance Index (MPI / Tei Index) by Myocardial Tissue Doppler Imaging (TDI) and its Correlation with Serum TSH Levels and Atherogenic Index of Plasma (AIP) in Patients of Subclinical Hypothyroidism	Department of Cardiology, All India Institute of Medical Sciences, Raipur
15.	Clinical Profile of Hypopituitarism in a Tertiary Care Centre in Central India	Department of General Medicine, All India Institute of Medical Sciences, Raipur

### Completed

S. No.	Project	Collaborating Department/Institution
1.	Cyto-histomorphological correlation in a cohort of thyroid samples with study of IHC expression of BRAF in them	Department of Pathology & Lab Medicine, All India Institute of Medical Sciences, Raipur

## PUBLICATIONS

- Nanda R, Patel S, **Ghosh A**, Asha KS, Mohapatra E. (2022) A study of Apolipoprotein A1 (ApoA1) And Interleukin-10 (IL-10) In Diabetes With Foot Ulcers. Biomedicine (Taipei). 12(1):30-38.

### Chapter in Book:

S. No.	Author(s)	Chapter Title	Editor	Book	Edition	City of Publication	Publisher	Year of Publication	First page-Last page
1.	Amritava Ghosh, Shalini Jaggi, Mithun Bhartia, Bikash Bhattacharjee	Section 3: Comorbidities	Sujoy Ghosh	RSSDI Yearbook of Diabetes 2020	1st	New Delhi	Jaypee Brothers Medical Publishers	2021	44-55

## PATIENT CARE

	OPD	IPD	Tests	Special Clinics	Or any other facility
Total	7892	50	267	588	TeleOPD- 1169

## **AWARDS, HONOURS AND SIGNIFICANT EVENTS**

Dr. Amritava Ghosh was panelist for panel discussions 'Medical Management of CAM' in Hybrid CME "Multidisciplinary Management of

Mucormycosis" on 28.08.2021 and 'Access to Diabetes Care- Role of Institutes of National Importance in India' in ENDOMED, AIIMS, Raipur, World Diabetes Day Celebration- 2021 Hybrid CME on Diabetes and Postgraduate Quiz on 14.11.2021.

# Department of ENT–Head & Neck Surgery

## Professor and Head

Prof. (Dr.) Nitin M. Nagarkar

## Additional Professors

Dr. Rupa Mehta  
Dr. Ripu Daman Arora

## Associate Professor

Dr. Satish S Satpute

## Assistant Professor

Dr. Sharmistha Chakravarty

## HIGHLIGHTS

The Department of Otolaryngology-Head & Neck Surgery at AIIMS Raipur serves to provide comprehensive, personalized care for local and national patients with various ENT and Head & Neck disorders. From routine ear infections to complex head and neck cancers. The Department is fully committed to providing quality services at every level of patient care. The Department is fully equipped with the latest technology which includes Advanced Endoscopic and Microscopic instruments, Coblation, Laser services, well equipped modular Operation theatres and a fully functional Audiology and Speech language pathology unit. Head and Neck Cancers, Thyroid and parathyroid disease, Endoscopic nasal and skull base surgery and all types of vascular tumours (Angiofibroma, Hemangioma and Lymphangioma), Cochlear implant Surgery, Functional endoscopic

surgeries, tympanomastoidectomy, stapedotomy and surgery for salivary gland neoplasms are performed routinely with a multidisciplinary team. During the 2<sup>nd</sup> Covid wave an abrupt surge of COVID-associated Mucormycosis patients were seen. The department successfully managed 250 patients of Covid Associated Mucormycosis.

## EDUCATION

The department is involved in teaching MBBS, MS (ENT), M. Ch. Head & Neck Surgery and Oncology & BASLP Students.

At present 3 M. Ch. Head and Neck Surgery and Oncology Residents, 11 M.S. E.N.T, residents along with 9 BASLP (audiology Section) are getting structured training in the department.

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES

S. No.	Title	CME/ Conference	Date	Organized By
1.	Hands on Cochlear Implant Cadaveric Workshop cum CME	CME	04.12.2021	Department of ENT AIIMS Raipur
2.	Multidisciplinary Management of Mucormycosis CME	CME	28.08.2021	Department of ENT AIIMS Raipur

S. No.	Title	CME/ Conference	Date	Organized By
3.	World Hearing Day 3 <sup>rd</sup> March 2022 Camp for Tribal Children A. Skit & Poster Competition to raise awareness in ENT, Eye, Obstetrics & Gynaecology, paediatrics OPD B. Online session with engineering students on safe hearing C. Quiz competition on hearing for all AIIMS faculty and residents	Hearing Awareness Week	27.06.2022 to 03.03.2022	Department of ENT AIIMS Raipur



ENT Camp at Raipur on World Hearing Day

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES & LIST OF ORATIONS/ORAL PAPERS/ POSTERS PRESENTED

Prof. (Dr.) Nitin M Nagarkar

### ORATION:

- Dr. Ajit Singh Saini Oration:** Topic : “Hearing Impairment: Journey from Newborn to Early Childhood Hearing Screening- Role of Modern Diagnosis” during the 28<sup>th</sup> Annual Conference of Association of Medical Biochemists of India at All India Institute of Medical Sciences (AIIMS) Raipur, 04.12.2021.

S. No.	Title	CME/Conference	Date	Organised by
1.	Do's & Don'ts during COVID 19	Awareness Programme on COVID 19	30.04.2021	Virtual CPE Meeting (VCM) by Central India Regional Council of The Institute of Chartered Accountants of India
2.	COVID19 situation	Virtual Awareness Programme on COVID 19 situation	01.05.2021	Sankalp Foundation, Raipur
3.	Attended National Webinar on Fatty Liver Disease (NAFLD): Population – Level Strategies for Prevention as Key note Speaker	Jointly organized by Department of General Medicine, AIIMS Raipur and ILBS, New Delhi,	25.05.2021	Department of General Medicine, AIIMS Raipur and ILBS, New Delhi
4.	COVID Associated Mucormycosis: Surgical Management	Webinar organized by AIIMS Nagpur	12.06.2021	AIIMS Nagpur
5.	Attended National CME on Artificial Intelligence in Health Care, as a part of NAMSCON 2020; Chaired a Panel discussion on “Need of Artificial Intelligence in Health Care Sector”	Organized by AIIMS Raipur	04.07.2021	AIIMS Raipur
6.	Life Skills during the Pandemic: The New Normal	National Workshop organized by Govt. Nagarjuna P.G. College of Science, Raipur	13.07.2021	Govt. Nagarjuna P.G. College of Science, Raipur
7.	Mucormycosis and its Management- the present Perspective	Hybrid CME on “Maxillofacial Surgery” Organised by department of Dentistry, AIIMS Raipur	27.07.2021	AIIMS Raipur
8.	CAM our Experience and Organizing Chairman of “Multidisciplinary Management of Mucormycosis”	Organized by Department of ENT-Head & Neck Surgery, AIIMS Raipur,	28.08.2021	AIIMS Raipur
9.	Delivered Keynote Address as a Chief Speaker on the Topic “Strategic Roles and Societal Collaboration in Health Care”	Attended Inter Province Health Assembly of India, organised by JMJ <u>Provincialate</u> , Raipur (Virtual)	26.09.2021	JMJ <u>Provincialate</u> , Raipur (Virtual)

S. No.	Title	CME/Conference	Date	Organised by
10.	Organ Donation	CME on Organ Donation Day, jointly organized by Department of Nephrology, Urology and School of Public Health, AIIMS Raipur	27.11.2021	AIIMS Raipur
11.	Role of Surgery in Post Covid Mucormycosis: An Experience	CME and Pulmonary Medicine Update organized by Department of Pulmonary Medicine, AIIMS Raipur,	18.12.2021	AIIMS Raipur
12.	“Chronic Kidney Disease (CKD)” Health, AIIMS Raipur	CME for the World Kidney Day organized by Department of Nephrology in collaboration with School of Public Health, AIIMS Raipur	10.03.2022	AIIMS Raipur
13.	Attended “Case Discussion: Carcinoma Larynx (Advanced)”, Department of ENT, as an Examiner and Moderator	Department of ENT, Mahamana Pandit Madan Mohan Malaviya Cancer Centre, Varanasi, (A Unit of Tata Memorial Hospital, Mumbai)	10.03.2022	Department of ENT, Mahamana Pandit Madan Mohan Malaviya Cancer Centre, Varanasi
14.	Challenges of Healthcare IT in Developing and Implementing EHR in the 21 <sup>st</sup> Century	CME on MEDRECON 2022, 21 <sup>st</sup> Annual National Medical Records Conference, AIIMS Raipur	11.03.2022	AIIMS Raipur
15.	Brain Injury Rehabilitation: Necessity and Relevance	CME 2022 -Brain Injury Rehabilitation: Recent Advances, Organised by Department of Physical Medical and Rehabilitation, AIIMS Raipur	12.03.2022	AIIMS Raipur
16.	Attended National Invited Lecture Series, as a Chairperson on the Topic: Compartment Resection for T4B Oral Cavity Cancer Involving Masticator Space	Association of Otolaryngologists of India (Delhi State)	26.03.2022	Association of Otolaryngologists of India

### Dr. Rupa Mehta

S. No.	Title	CME/Conference	Date	Organised by
1.	Covid Associated Mucormycosis – A Deadly Presentation	Multidisciplinary Management of Mucormycosis CME	28.08.2021	AIIMS Raipur
3.	Tracing the Evolution of Robotics in Medicine – from Science Fiction to Reality	National CME on Artificial Intelligence in Health Care	04.07.2021	AIIMS Raipur
4.	Noise Induced Hearing Loss for NIT students as a part of Hearing awareness activities	World Hearing Day	03.03.2022	AIIMS Raipur
5.	Presented talk on Basics of Cochlear Implantation	Hands on Cochlear Implant Cadaveric Workshop cum CME	04.12.2021	AIIMS Raipur



**Dr. Ripu Daman Arora**

S. No.	Title	CME/Conference	Date	Organised by
1.	Medical Management of COVID associated Mucormycosis	Multidisciplinary Management of Mucormycosis	28.08.2021	AIIMS, Raipur
2.	Tips and Tricks of Stapes Surgery	19 <sup>th</sup> Annual Conference of AOI(HP) Chapter cum CME	20.10.2021	IGMC, Shimla
3.	Structure and function of Ear	World Hearing Day	03.03.2022	AIIMS, Raipur
4.	Cochlear Implant (Quiz)	Hands on Cochlear Implant Cadaveric Workshop cum CME	04.12.2021	AIIMS, Raipur
5.	Common Ear problems and its Management	State Training programme for Medical Officers in ENT care at HWCs	22.09.2021	NSHRC, Delhi
6.	Myths and Facts about Subannular Tympanoplasty	Annual conference of Indian Journal of Otology	27.02.2022	Hotel The Park New Delhi

**Dr. Sharmistha Chakravarty**

S. No.	Title	CME/Conference	Date	Organised by
1.	Retrosternal Goiter, A Plunging Challenge: Our Institutional Experience at A Tertiary Referral Center of Central India	AOICON 2022	09.01.2022	The Association of Otolaryngologists of India Ranchi Jharkhand
2.	Basics of Hearing Tests and Ear Hygiene	World Hearing Day (Awareness drive for Noise Induced Hearing Loss)	16.03.2021	AIIMS Raipur

**Presentation by Residents**

S. No.	Authors	Title	Conference	Date	Organized By
1.	Dr. Megha Chandragupthan, Rupa Mehta, Nitin M Nagarkar	Unusual Sites and Disseminated Presentations of Rhinosporidiosis	Annual Conference of Society of Otolaryngologists of India	Jan 2022	Association of otolaryngologist of India Ranchi Jharkhand
2.	Amit Banjare, Arora R, Nagarkar NM	COVID Associated Mucormycosis in A Case of Wegeners Granulomatosis	Annual Conference of Society of Otolaryngologists of India	Jan 2022	Association of otolaryngologist of India Ranchi Jharkhand

**RESEARCH****Funded Projects****Ongoing**

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year
1.	Hospital Based Cancer Registry at AIIMS Raipur	Prof. (Dr.) Nitin M. Nagarkar	Non-funded Indian Council for Medical Research (ICMR), NCDIR, Bengaluru		Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year
2.	“Implementation of NCDIR Electronic Mortality Software (NCDIR e-Mor) - strengthen Medical Certification of Cause of Death in AIIMS Raipur”	Prof. (Dr.) Nitin M. Nagarkar	ICMR, National Centre for Disease Informatics and Research (NCDIR), Bengaluru	Five years	Ongoing
3.	Postoperative non invasive monitoring device for micro-vascular free flaps in microsurgical reconstruction in head and neck tumors	Prof. (Dr.) Nitin M. Nagarkar	DST under Ministry of Science and Technology Gol, New Delhi		Ongoing
4.	Intramural funded- Evaluation of Amyloid Precursor Protein m-RNA expression in tissue and saliva of HNSCC patients	Dr. Rupa Mehta (PI)	AIIMS Raipur	Three years	2020
5.	Non-funded- Incidence, Pattern and Degree of hearing loss following Acute CNS Infection (Meningitis and Meningoencephalitis) in children (neonate - 15years)	Dr. Rupa Mehta (PI)	AIIMS Raipur	Three years	2020
6.	Evaluation of Prevalence of HPV in Head and Neck Malignancies	Dr. Ripu Daman Arora	AIIMS Raipur	Three years	2019
7.	Audiological Profile in Post-Covid Mucormycosis Patients	Dr. Ripu Daman Arora	Non Funded	One years	2021
8.	Prevalence of Neurological Diseases in Covid-19 patients, at AIIMS, Raipur	Dr. Ripu Daman Arora	Non funded	One years	2021
9.	Incidence of Adverse Outcomes and Risk Factors for Mortality among Mucormycosis Patients in India : A Multi Centric Ambispective Cohort Study	Dr. Satish Satpute	ICMR (Extramural)	One years	2021-2022
10.	Evaluation of Prevalence of Hearing Impairment among Primary School Children in Rural Areas of Chhattisgarh, India	Dr. Satish Satpute	AIIMS Raipur Funded 500000/-	Two years	2020-2022

### Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year
1.	A Phase II, Open Label, Randomized Controlled Trial to Assess the Safety and Efficacy of Convalescent Plasma to Limit COVID-19 Associated Complications in Moderate Disease	Prof. (Dr.) Nitin M. Nagarkar	Funded by ICMR, New Delhi	Six months	2021
2.	Determinants of Mortality due to COVID in India	Prof. (Dr.) Nitin M. Nagarkar	AIIMS New Delhi and AIIMS Raipur	One year	2021
3.	Retrospective Review of Clinical and Histopathological Parameters of Oral Cavity Carcinoma Patients Operated at AIIMS Raipur (2015-2020)	Dr. Rupa Mehta (PI)	Non funded	One year	2021

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year
4.	Study of Clinico-Epidemiological profile of patients with Mucormycosis post COVID-19 infection: A Hospital Based Cross Sectional Study	Dr. Rupa Mehta (PI)	Non funded	Six months	2021
5.	Clinical presentation of COVID 19 in central India: A Hospital based cross sectional study	Dr.Ripu Daman Arora	Non Funded	One	2021-2022
6.	Prevalance of new onset of anosmia and its diagnostic significance in Covid 19	Dr.Ripu Daman Arora	Non Funded	One	2021-2021
7.	Spectrum of neurological manifestations in cases of Rhino-Orbital-Cerebral Mucormycosis	Dr. Sharmistha Chakravarty (PI)	Non Funded	One	2021
8.	Glycemic control among people with Diabetes mellitus hospitalized for mucormycosis.	Dr. Sharmistha Chakravarty (Co-PI)	Non Funded	One	2021
9.	Role of statins as adjuvant therapy in the management of mucormycosis	Dr. Sharmistha Chakravarty (Co-PI)	Non funded	One	2021

## Collaborative Projects

### Completed

S. No.	Project	Collaborating Department/Institution
1.	Advantages of endoscopic over conventional approach for teaching by dissection of Nose-PNS and anterior skull base anatomy	Anatomy
2.	Clinico-Mycological study of post covid mucormycosis reported to tertiary care hospital in the state of Chhattisgarh	Microbiology

## PUBLICATIONS:

- Ripu Daman Arora, Monalisa Jati, Nitin M Nagarkar, Abhiruchi Galhotra, Sarita Agrawal, Rupa Mehta, Tripty Naik. Experience, Challenges and Outcome of Implementing Universal New Born Hearing Screening in a Medical College Hospital Set Up. Indian Journal of Otolaryngology and Head & Neck Surgery, (page-01-06), May-2021
- Ripu Daman Arora, Monalisa Jati, Nitin M Nagarkar. Ototoxicity of Artemisinin-Based Combination Therapy: A Case Presentation. Indian Journal of Otolaryngology and Head & Neck Surgery, (page-01-03), June- 2021
- Kuldeep Sharma, Pragya Agarwala, Deepa Gandhi, Anuniti Mathias, Priyanka Singh, Somya Sharma, Sanjay Singh Negi, Anudita Bhargava, Padma Das, Ujjwala Gaikwad, Archana Wankhede, Ajoy Behra, Nitin M Nagarkar. Comparative analysis of various clinical specimens in detection of SARS-CoV-2 using RT-PCR in new and follow up cases of COVID-19 infection: Quest for the best choice. Plos one Journal, (June- 2021) Volume 03, Issue-16 (Pages: e0253355)
- Rupa Mehta, Nitin M Nagarkar, SS Satish, Ripu Daman Arora, Jyoti Ranjan Das. Parathyroid Adenoma--From Surgical to Biochemical Cure. Journal of Evolution of Medical and Dental Sciences. (June-2021) Volume 10, Issue-23 (Pages: 1809-1815)
- Mrittika Sen, Santosh G Honavar, Rolika Bansal, Sabyasachi Sengupta, Nitin M Nagarkar. Epidemiology, clinical profile, management, and

- outcome of COVID-19-associated rhino-orbital-cerebral mucormycosis in 2826 patients in India – Collaborative OPAI-IJO Study on Mucormycosis in COVID-19 (COSMIC), Report 1. Indian Journal of Ophthalmology (July-2021) Volume 69, Issue-07 (Pages: 1670-1692)
6. Rupa Mehta, Karthik Nagaraja Rao, Nitin M Nagarkar, Akash Aggarwal. Free Flap Reconstruction and Its Management in Sickle Cell Trait: Lessons Learned from a Case. Indian Journal of Surgical Oncology. (Sept-2021) (Pages: 1-6)
  7. Rupa Mehta, Nitin M Nagarkar, Atul Jindal, Karthik Nagaraja Rao, SB Nidhin, Ripu Daman Arora, Anil Sharma, Archana Wankhede, Satish Satpute, Sharmistha Chakravarty, NK Agrawal, Pankaj Kannauje, Ajoy Behera, Pugazhenthana Thangaraju. Multidisciplinary management of COVID-associated mucormycosis syndemic in India. Indian Journal of Surgery. (Sept-2021) (Pages: 1-9)
  8. Rupa Mehta, Nitin M Nagarkar, Krishna Sasanka KSBS, Sree Sudha TY, Ripu Daman Arora, Aakash Aggarwal. Facial Nerve Palsy in COVID-19-Associated Mucormycosis Patients: A Case Series. Cureus Journal. (Nov-2021) (Volume: 13)
  9. Karthik Nagaraja Rao, Satish Satpute, Nitin M Nagarkar, Ambesh Singh. Revision Thyroid Surgery. Indian Journal of Surgical Oncology. (Nov-2021) (Pages: 1-9)
  10. Sairah Mathew, Ripu Daman Arora, Neel Prabha, Payal Kamble, Satish Suresh Satpute, Nitin M Nagarkar. Retroanalytical Study of Epidemiological Factors of Rhinosporidiosis, International Archives of Otorhinolaryngology- (December-2021) (Pages: 504-508)
  11. Monalisa Jati, Ruuzeno Koutsu, Nitin M Nagarkar. Rhino-Cerebral Mucormycosis with Otologic Involvement, Indian Journal of Otolaryngology and Head & Neck Surgery, Springer India- (08.01.2022) (Pages: 1-4)
  12. Pushpendra Singh, Kuldeep Sharma, Priyanka Singh, Anudita Bhargava, Sanjay Singh Negi, Pratibha Sharma, Mayuri Bhise, Manish Kumar Tripathi, Atul Jindal, Nitin M Nagarkar. Genomic characterization unravelling the causative role of SARS-CoV-2 Delta variant of lineage B.1.617.2 in 2<sup>nd</sup> wave of COVID-19 pandemic in Chhattisgarh, India, Microbial Pathogenesis Journal, Elsevier- (2022) (Pages: 105404)
  13. Vinay Rathore, Rahul Pal, Abhiruchi Galhotra, Saurabh Nayak, Snehalata, Vivekanand Jha, Nitin M Nagarkar. Community Perception of Chronic Kidney Disease in Supebeda, Chhattisgarh, International Journal of Current Research and Review - (January 2022) (Volume-14, Issue-02) (Pages: 23)
  14. Ripu Daman Arora, Nitin M Nagarkar, KSBS Krishna Sasanka, Pugazhenthana Thangaraju, Rupa Mehta, Satish S Satpute, Sharmistha Chakravarty, Archana Keche, Aakash Aggarwal, Sree Sudha TY. Epidemic in pandemic: Fungal sinusitis in COVID-19, Journal of Family Medicine and Primary Care- (1/2/2022) (Pages: 807-811)
  15. Rupa Mehta, Sharmistha Chakravarty, Nitin M Nagarkar, Ashish K Gupta, Amit Banjare. Mammary Analogue Secretory Carcinoma of Submandibular gland, Iranian Journal of Otorhinolaryngology- (23/2/2022)
  16. Ripu D Arora, Neha Thakur, Payal Kamble, Monalisa Jati, Nitin M Nagarkar, Jagdeep S Thakur. Circumferential subannular tympanoplasty: surgical and hearing outcome in 224 ears with subtotal perforation, Acta Oto-Laryngologica Journal - (1/3/2022) (Pages 1-5)
  17. Archana Keche, Nitin M Nagarkar, Swati Salila\*, Ripu Daman Arora, Rupa Mehta and Richa Tigga Multiple and Appropriate Sampling Proved as Key for Early Diagnosis of COVID Associated Mucormycosis ACTA SCIENTIFIC OTOLARYNGOLOGY (ASOL) (ISSN: 2582-5550) Volume 4 Issue 2 January 20, 2022
  18. Mehta R., Nagarkar Nitin M., Singh, Ambesh, Das, JyotiRanjan The Rate of Submandibular Gland Involvement and Its Preservation in Oral Squamous Cell Carcinoma Indian Journal of Surgery (IF0.656), PubDate: 2022-01-12, DOI: 10.1007/s12262-021-03216-z

19. Rupa Mehta, Shashank Nema, Nitin M Nagarkar. Balance Profiling in Adults - Our Experience at Tertiary Care Teaching Hospital of Central India. *Acta Scientifica Otolaryngology* Volume 4 Issue 4 Pages 34-38
20. Chakravarty S, Nagarkar NM, Mehta R, Arora RD. Congenital Infiltrative Lipomatosis of Face. *Int J Clin Med Imaging* Feb 2022, 9:814. DOI: 10.4172/2376-0249.1000814
21. Arora, R.D., Jati, M., Nagarkar, N.M. *et al.* Experience, Challenges and Outcome of Implementing Universal New Born Hearing Screening in a Medical College Hospital Set Up. *Indian J Otolaryngol Head Neck Surg* (2021). <https://doi.org/10.1007/s12070-021-02633-6>
22. Mishra JK, De M, Sahu SA, Arora RD, Raghani MJ, Nagarkar NM. Management of a late presentation of bear mauling with a complex maxillofacial defect in a tertiary care hospital-A case report. *Annals of maxillofacial surgery*. 2021 Jul;11(2):359.
23. Deshmukh A, Rao KN, Arora RD, Nagarkar NM, Singh A, Shetty OS. Molecular Insights into Oral Malignancy. *Indian Journal of Surgical Oncology*. 2021 Sep 11:1-4.
24. Babu MJ, Neema PK, Karim HM, Dey S, Arora R. Effect of Two Different Tranexamic Acid Doses on Blood Loss in Head and Neck Cancer Surgery: A Randomized, Double-Blind, Controlled Study. *Cureus*. 2021 Dec 5;13(12).
25. Shukla A, Tikka SK, Singh LK, Arora R, Singh S, Mahant S, Das JR, Verma S. Impact of cancer diagnosis on use of smokeless tobacco: A descriptive study of patient-relative dyads. *Indian Journal of Psychiatry*. 2022 Mar;64(2):192.

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### Registration Number: L-104009/2021

Title: COSANAR -(Corona Scale On Anosmia AIIMS Raipur)

Dr. Nitin M. Nagarkar

Dr. Ripu Daman Arora

Dr. KSBS Krishna Sasanka

Dr. Pugazhenthana T

### Registration Number: L-105766/2021

Title: ISCA-R -(Indian Smell Test in COVID by AIIMS Raipur)

Dr. Ripu Daman Arora, Department of ENT

Dr. KSBS Krishna Sasanka, Department of ENT

Dr. Pugazhenthana T, Department of Pharmacology

Dr. Nitin M. Nagarkar

## Chapter(s) in Books

S. No.	Author (s)	Chapter Title	Editor	Book	Edition	City of Publication	Publisher	Year of Publication	First page-Last page
1.	Rupa Mehta, Nidhin SB, Nitin M. Nagarkar	Clinical Presentation: ENT Spectrum, pp 33-45 Rhinosporidiosis	Dr. Nitin M Nagarkar Dr. Rupa Mehta	Rhinosporidiosis	First	Singapore	Springer,	March 2021	33-45
2.	Sharmistha Chakraborty, Rupa Mehta, Nitin M. Nagarkar	Rhinosporidiosis	Dr. Nitin M Nagarkar Dr. Rupa Mehta	Rhinosporidiosis	First	Singapore	Springer,	March 2021	1-6

S. No.	Author (s)	Chapter Title	Editor	Book	Edition	City of Publication	Publisher	Year of Publication	First page-Last page
3.	Satish Satpute, Rupa Mehta, Nitin M. Nagarkar	Investigations and Diagnosis, pp 73–76 Rhinosporidiosis	Dr. Nitin M Nagarkar Dr. Rupa Mehta	Rhinosporidiosis	First	Singapore	Springer,	March 2021	73-76
4.	Rupa Mehta, Ambesh Singh & Nitin M. Nagarkar	Research Topics in Rhinosporidiosis, pp 99–101 Rhinosporidiosis	Dr. Nitin M Nagarkar Dr. Rupa Mehta	Rhinosporidiosis	First	Singapore	Springer,	March 2021	99-101
5.	Arora RD, Nagarkar NM, Chandran M	Treatment of Rhinosporidiosis. In Rhinosporidiosis 2022	Dr. Nitin M Nagarkar Dr. Rupa Mehta	Rhinosporidiosis	First	Singapore	Springer,	2022	77-81
6.	Nagarkar, Nitin & Arora, Ripudaman. (2021).	Salivary Glands Tumour Surgery	Dr. Ripu Daman Arora Dr. Jagdeep Thakur	Operative Surgery for Head and Neck Tumors	First	London	Taylor and Francis group	2021	74-82
7.	Satish Satpute, Rupa Mehta, Nitin M. Nagarkar	Investigations and Diagnosis, pp 73–76 Rhinosporidiosis	Dr. Nitin M Nagarkar Dr. Rupa Mehta	Rhinosporidiosis	First	Singapore	Springer,	March 2021	73-76
8.	Arora, Ripudaman & Thakur, Jagdeep. (2021). 10.1201/9780367430139-20 in CRC Press; 2022	Parapharyngeal Tumour Surgery	Dr. Ripu Daman Arora Dr. Jagdeep Thakur	Operative Surgery for Head and Neck Tumors.	1st	London	Taylor and Francis group	2021	202-209
9.	Subinsha, A & Arora, Ripudaman	Parathyroid Surgery	Dr. Ripu Daman Arora Dr. Jagdeep Thakur	Operative Surgery for Head and Neck Tumors.	1st	London	Taylor and Francis group	2021	188-191
10.	Thakur, Jagdeep & Arora, Ripudaman & Sharma, Dinesh.	Surgical Tools	Dr. Ripu Daman Arora Dr. Jagdeep Thakur	Operative Surgery for Head and Neck Tumors.	1st	London	Taylor and Francis group	2021	31-36
11.	Nagarkar, Nitin & Arora, Ripudaman. (2021).	Salivary Glands Tumour Surgery	Dr. Ripu Daman Arora Dr. Jagdeep Thakur	Operative Surgery for Head and Neck Tumors.	1st	London	Taylor and Francis group	2021	74-82

## Edited Book(s) and Monograph(s) Book(s)

### Edited book

1. **Nagarkar NM, Mehta R**, Editors. Rhinosporidiosis, Springer Publication 2022
2. Thakur J, **Arora RD**, editors. Operative Surgery for Head and Neck Tumors. CRC Press; 2022

## PATIENT CARE

	OPD	IPD	Major OT	Minor OT	Tests	Speech therapy	Special Clinics
Total	26966	931	914	106	8592	366	721

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Prof. (Dr.) Nitin M. Nagarkar

1. **Dr. Ajit Singh Saini Oration:** Topic: "Hearing Impairment: Journey from Newborn to Early Childhood Hearing Screening- Role of Modern Diagnosis" during the 28<sup>th</sup> Annual Conference of Association of Medical Biochemists of India at All India Institute of Medical Sciences (AIIMS) Raipur, 04.12.2021

### Dr. Rupa Mehta

1. Awarded MNAMS (Member of National Academy of Medical Science)
2. Co-editor book of Rhinosporidiosis Published by Springer publication

3. Moderated Panel Discussion on Surgical Management of Mucormycosis at Multidisciplinary Management of Mucormycosis CME on 28.08.2021 Organised by AIIMS, Raipur.
4. Conducted Interdepartmental Quiz Competition for all Departmental Residents and Faculty Members on World Hearing Day on 03.03.2021 Organised by AIIMS, Raipur.

### Dr. Ripu Daman Arora

1. Edited a book on Operative Surgery for Head and Neck Tumors by Tylor and Francis
2. Delivered prestigious Dr. L.H. Hiranandani oration on Topic "Tips and Tricks of Stapes Surgery" at 19<sup>th</sup> annual conference of AOI (HP) 20<sup>th</sup> October 2021

# Department of Forensic Medicine & Toxicology

## Professor & Head

Dr. Krishnadutt Chavali

## Additional Professor

Dr. Deepak D'Souza

## Assistant Professors

Dr. Pankaj Ghormade

Dr. Swapnil Akha

## HIGHLIGHTS

DM course in Medical and Forensic Toxicology is a first course of its kind in the country. The response to the advertisement for filling up the seat in both the sessions was very encouraging. Two candidates – one during the July 2021 session and the other during the January 2022 session joined the course.

Three more police station areas – Azad Chowk, Purani Basti and DD Nagar are included in the jurisdiction of the institute for the purpose of medicolegal postmortem examinations. At the same time, the institute has been permitted to examine clinical forensic cases brought by the police from all the six police station areas allotted to it. The number of postmortem examinations and clinical forensic cases is expected to more than double due to the inclusion of these police station areas.

Both Dr. Deepak D'Souza and Dr. Swapnil Akhade successfully completed the Postgraduate Diploma course in Forensic Anthropology & Odontology from Yenepoya University, Mangalore. The department used the available tools of Information Technology for effective management of COVID-19 dead bodies during the pandemic.

## EDUCATION

The Academic Committee of the institute has permitted starting of DM course in Medical and Forensic Toxicology in the department. Two candidates took admission in the year under consideration.

Annual intake of MD students is 2 – one in each session. Two candidates joined the course. No MD or DM seat has been left vacant in the year.

The department is approved for taking two PhD scholars per year.

Since the introduction of the new curriculum for the MBBS course, the department started teaching the subject to the first batch of students (2019 batch) in their 5<sup>th</sup> term (3<sup>rd</sup> Professional year).

Students of Pre Hospital Trauma Technician course completed the course in the subject and successfully cleared their examinations. The department has also been taking classes on relevant topics for the students of MSc Nursing, BSc Nursing and MPH courses. The faculty members of the department conducted formal and informal training on “Recording COVID-19 deaths in MCCD” and “Medicolegal management and handling COVID19 dead bodies” during the pandemic.



## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Krishnadutt Chavali

S. No.	Title	CME/Conference	Date	Organised By
1.	Dead Body Disposal in COVID-19	Clinical Excellence Programme	8 <sup>th</sup> to 18 <sup>th</sup> June 2021	SIHFW, Chhattisgarh and AIIMS Raipur
2.	Medicolegal Aspects of Trauma	Training Schedule for ITBP Medical Doctors & Paramedical Staff	16 <sup>th</sup> to 30 <sup>th</sup> August 2021	AIIMS, Raipur
3.	Forensic Histopathology - Role in Sudden Death.	SIMLA 2021	5 <sup>th</sup> & 6 <sup>th</sup> October 2021	AIIMS, Bibinagar

### Dr. Swapnil Akhade

S. No.	Title	CME/Conference	Date	Organised By
1.	Potency examination current scenario & Challenges faced by police & Judiciary.	XXII Annual state Conference of Medicolegal Association of Maharashtra	10 <sup>th</sup> & 11 <sup>th</sup> April 2021	T.N. Medical College & B.Y.L Nair Ch. Hospital Mumbai.
2.	Medical Certification of cause of Death in COVID related deaths	National CME on “ legalities in Medical practice during COVID Pandemic”	19 <sup>th</sup> May 2021	AIIMS , Nagpur
3.	How to record cause of death & strengthening of MCCD at AIIMS, Raipur	MEDRECON-2022 “Importance of Medical Records/Health information for Achieving Better Health”	11 <sup>th</sup> & 12 <sup>th</sup> March 2022	AIIMS, Raipur

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1	Ghormade PS, Akhade S	Assessment of Severity of Injury by using Trauma Scores	SIMLA 2021	05-06.10.2021	AIIMS Bibinagar

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	Medical Evaluation of Hymen in Correlation to Genital Infections in Females without a History of Sexual Intercourse.	Dr. Swapnil Akhade	AIIMS, Raipur (Intra-Mural Project)	03 years	2020 - 2023	3,80,000.

## Departmental Projects (Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations)

### Ongoing

S. No.	Project
1.	Comparison of Burden of Injury at a Tertiary Care Centre Of National Importance: Pre-COVID and COVID Era
2.	Study of Sexual Dimorphism based on Osteometric Parameters of Foramen Magnum and Foramen Ovale in Dead Bodies brought for Autopsy to AIIMS Raipur
3.	Use of TRISS as a Predictor of Patient Outcome in Cases of Trauma, presented in Trauma & Emergency Department of a Tertiary Care Institute at Raipur
4.	Ageing of Brain Contusion by Histopathological Examination – An Autopsy Based Study
5.	Study of Substance Abuse among Drivers Injured in Vehicular Crashes Reporting at a Tertiary Care Hospital in Central India
6.	Estimation of Age and Determination of Sex of an Individual from Non-Metric and Metric Analysis of Sternum using Computed Tomography Scan of the Chest
7.	Prevalence, Morphology and Significance of Myocardial Bridging on Coronary Arteries - a Prospective Forensic Autopsy Study from Tertiary Care Centre of Central India
8.	Setting up of a Forensic Anthropology Unit in a Medical College in India

### Completed

S. No.	Project
1.	Analysis of Injury Characteristics in Victims of Interpersonal Violence: Clinical Forensic Medicine Unit Perspective at Tertiary Care Center
2.	Prediction of Outcome in Patients of Trauma using TRISS presented at Trauma & Emergency Department of AIIMS Raipur: a Pilot Study

## PUBLICATIONS

- Dheeraj AK, Giri S, **Medhi RJ, Ghormade PS.** (2021) Forged Death Certificate Unearthed the Racket of Criminal Abortions for Feticide. International Journal of Current Advanced Research. 2021;10(10):25312-314.
- Sharma B, Dash SK, **Ghormade PS.** Death following accidental compression of neck by safety harness: A case of fall from height. Indian Journal of Forensic and Community Medicine. 2021; 8(4):258-261.
- Sharma B, **Ghormade PS,** Sahu BK. Mass fatality following lightning stroke: Analysis of six cases. Int J of Allied Med Sci and Clin Res. 2021; 9(2):405-9.
- Medhi R, Ghormade PS, Akhade SP,** Sahu BK, Hussain N. Congenital Diaphragmatic Hernia: A Case Report, An Autopsy-Based Diagnosis in Sudden Neonatal Death. J For Med Sci Law. 2021;30(2):76-80.
- Akhade SP,** Dash SK, Akhade KS. The knowledge assessment and reducing the errors of medical certificate of cause of death with sensitization training of physicians: A quality improvement intervention study. J Educ Health Promot. 2022 Jan 31;11:19. doi: 10.4103/jehp.jehp\_502\_21.
- Medhi R, Akhade S,** Nagpure KB, **Chavali K.** Lead Toxicity Following a Novel Method of Consumption as a Tea Preparation Using Vermillion for Arthralgia: A Case Report. Asia Pac J Med Toxicol 2021; 10(4):151-153.

7. **Akhade S.** Book Review - "Injuries - Forensic and Medicolegal Aspects, 1<sup>st</sup> Edition, by Anil Aggrawal, Anil Aggrawal's Internet Journal of Forensic Medicine and Toxicology; 22(2), July-December 2021.

## PATIENT CARE

Medicolegal cases handled	Medicolegal autopsies performed	Embalming of autopsied bodies	COVID bodies handed over
2386	335	16	774

The department provides round the clock medicolegal services in various cases like examination of child abuse, physical assaults, sexual assault survivor examination, examination of accused in POCSO cases and age estimation under the Clinical Forensic Medicine unit.

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

**Dr. Krishnadutt Chavali:** Contributed as Jury Member for the e-Poster Presentation (Professional Category) at the 8<sup>th</sup> International eConference on Forensic Medicine & Toxicology conducted by International Association of Scientists and Researchers, on 28<sup>th</sup> & 29<sup>th</sup> August 2021. Participated as a resource person in the panel discussion on "How Forensic Medicine & Toxicology in India is dealing with COVID-19" in the webinar on COVID-19 Pandemic in India: A Forensic Perspective, held on 21<sup>st</sup> August 2021. Chaired a session in the CME on Artificial Intelligence in Health Care as part of NAMSCON 2020 held at AIIMS Raipur on 4<sup>th</sup> July 2021. He successfully completed the Ethics Review of Health Research e-Certificate course conducted by NIE-ICMR. He successfully completed the Basic Course in Biomedical Research online certification course conducted by NIE-ICMR. He was appointed Coordinator for setting up of the question

paper (Objective Type) for Medical Officer in Health & Medical Education Department, 2022 for the Jammu Kashmir Public Service Commission. He was invited as Subject Expert for the interviews for the post of Assistant Professor, Forensic Medicine, by the Chhattisgarh Public Service Commission. He participated in and contributed to the 2nd Search Conference on Enhancing India's Forensic Human Identification Capacity in Mass Fatality Incidents organized by the International Centre for Humanitarian Forensics (ICHF), a joint initiative of the National Forensic Sciences University (NFSU) and the International Committee of the Red Cross (ICRC), from 3-4 March 2022 at NFSU, Goa. He delivered a TEDx talk on "Toxicology in the Medical Curriculum" on 27.11.2021 organised by Bhartiya Vidya Bhawan.

**Dr. Deepak D'Souza:** He was the Jury for scientific sessions in the SIMLA conference organized by AIIMS Bibinagar. He co-chaired a session in the 21<sup>st</sup> Annual National Medical Record Conference held at AIIMS Raipur on 11<sup>th</sup> & 12<sup>th</sup> March 2022. He successfully completed the Post Graduate Diploma in Forensic Anthropology and Odontology (PGDFAO) course conducted by Yenepoya (deemed to be) University.

**Dr. Pankaj Ghormade:** He guided MBBS student Ms. Nidhi Jamra for her ICMR-STC project resulting in ICMR approving her proposal and sanctioning the research grant.

**Dr. Swapnil Akhade:** He is part of the project on Implementation of NCDIR E-Mor software to strengthen Medical Certification of Cause of Death at AIIMS, Raipur, a joint collaboration of the Hospital Administration and School of Public Health. He successfully completed the Post Graduate Diploma in Forensic Anthropology and Odontology (PGDFAO) course conducted by Yenepoya (deemed to be) University. He co-chaired a session in the 21<sup>st</sup> Annual National Medical Record Conference held at AIIMS Raipur on 11<sup>th</sup> & 12<sup>th</sup> March 2022.

# Department of General Medicine

## Professor & Head

Prof.(Dr.) Vinay R. Pandit

## Additional Professor

Dr.Md. Sabah Siddiqui

## Associate Professor

Dr. Preetam N. Wasnik

## Assistant Professors

Dr. Keshao B. Nagpure (till 24.09.2021)

Dr. Pankaj Kumar Kannauje

Dr. Jhasaketan Meher

Dr. Pranita

Dr. Rohini Rokkam

Dr. Ajit Kumar

## HIGHLIGHTS

The Department of Medicine is fully functional and providing services at OPD, Male medicine ward, female medicine ward, Trauma & Emergency and MICU (Medical Intensive care unit). The Department has well-equipped ten-bed medical ICU (MICU) for critically ill patients. This facility was inaugurated on 01.07.2021. The Department provides 24 × 7 services in the Trauma and Emergency Department (Medical Emergency unit, ground floor, 1st floor). The Medicine Department also admits and manages critically ill patients of allied super specialities. Department also caters to a 20-bedded HDU which was used as COVID ICU for management of seriously ill COVID cases. The department runs speciality OPD in the afternoon 02.00 PM-05.00 PM which are Diabetic foot clinic every Tuesday, Rheumatology clinic every Wednesday, Geriatric clinic and Sickle cell clinic every Thursday. International Day of older person was celebrated on 01.10.2021 with the inauguration of Geriatric Division. Department also provided human resources and has a lead role in managing the COVID pandemic. Daily telemedicine service was provided during the pandemic and post-pandemic period. Department has started DM Clinical Infectious Disease with an annual intake of two candidates, Post Graduation (MD General Medicine) seats have been increased to 12 per annum. PhD

course under medicine has been approved with annual intake of two candidates.

## EDUCATION

Apart from undergraduate lectures and bed side clinic, the department has conducted regular seminars, regular and interesting case presentations, and journal clubs throughout the calendar year involving interns, postgraduate, DM candidates, and faculty. Monthly mortality meet is being conducted in the Department regularly. Induction training of newly joined PG students is done in every academic batch. Department is also teaching Neurology to BASLP students, Nursing colleges and other paramedical courses. During the COVID pandemic, MBBS training was done in virtual mode, and clinical case scenarios were discussed in virtual mode. Department has conducted the DNB General Medicine practical examination on 13<sup>th</sup> April, 2021. Medical officers of Chhattisgarh were also trained on non-communicable diseases – Diabetes, Hypertension and its co-morbidities. Postgraduate students have also presented academic cases and thesis as oral presentation and posters at national (IRACON, HAEMATOCON, APICON) and state-level conferences. They have also participated in quiz competitions in CME/ conferences and have won laurels to the Department.

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES

S. No.	Title	CME/Conference	Date	Organised By
1.	Management of Hepatitis B	Hybrid CME - Viral Hepatitis	24.09.2021	Dept. of General Medicine in association with National health mission (NHM) & National Viral Hepatitis control programme (NVHCP) Raipur, Chhattisgarh
2.	Hybrid CME – ENDOMED	World Diabetes Day awareness program, CME, and postgraduate quiz	13 -14.11.2021	Dept. of General Medicine in association with Dept of Endocrinology

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

Prof. (Dr.) Vinay R. Pandit

S. No.	Title	CME/Conference	Date	Organized By
1.	Management of Hepatitis B	National CME on Viral Hepatitis, AIIMS, Raipur	24.09.2021	Department of General Medicine and National Health Mission and NVHCP Raipur C.G.
2.	Role of Medical Colleges in Prevention and Control of NAFLD	Online national webinar on Non-Alcoholic Fatty Liver Disease (NAFLD)	25.05.2021	Department of General Medicine, AIIMS Raipur and ILBS New Delhi
3.	YOGA in Diabetes Management	CME on International Yoga Day, AIIMS Raipur	21.06.2021	Department of Yoga and Physiology AIIMS Raipur
4.	Stroke- Introduction and Prevalence	Stoke Management Workshop, Raipur.	12.11.2022	Department of General Medicine in association with Department of Health and Family Welfare, Raipur, CG
5.	Insight on COVID -19 Through Spectrum of Chronomedicine	International Symposium on “Chronomedicine: Relevance in COVID time”	18.09.2021	Department of Physiology AIIMS Raipur

Dr. Md. Sabah Siddiqui

S. No.	Title	CME/Conference	Date	Organised By
1.	Prevention and Vaccination of Viral Hepatitis	National CME on Viral Hepatitis, AIIMS, Raipur	24.09.2021	Department of General Medicine and National Health Mission and NVHCP Raipur C.G.
2.	Acute Kidney Injury: a Physician Viewpoint	CME on World Kidney Day 2022	10.03.2022	Dept. of Nephrology AIIMS, Raipur
3.	CGMS Data: What Does It Tell us?	4 <sup>th</sup> CG State RSSDI Chhattisgarh	26-27.03.2022	RSSDI, CG State

**Dr. Preetam N. Wasnik**

S. No.	Title	CME/Conference	Date	Organized By
1.	Viral Hepatitis: Clinical Feature	National CME on Viral Hepatitis, AIIMS, Raipur	24.09.2021	Department of General Medicine and National Health Mission and NVHCP Raipur C.G.

**Pankaj Kumar Kannauje**

S. No.	Title	CME/Conference	Date	Organized By
1.	Clinical Management of Hep-B and Hep-C	National CME on Viral Hepatitis, AIIMS, Raipur	24.09.2021	Department of General Medicine and National Health Mission and NVHCP Raipur C.G.

**Dr. Jhasaketan Meher**

S. No.	Title	CME/Conference	Date	Organized By
1.	Anti-Viral in COVID 19	Clinical excellence program on COVID-19, AIIMS, Raipur	14.06.2021	Regional centre of excellence covid 19 training program
2.	Viral Hepatitis- Epidemiology	National CME on Viral Hepatitis, AIIMS, Raipur	24.09.2021	Department of General Medicine and National Health Mission and NVHCP Raipur C.G.

**Dr. Pranita**

S. No.	Title	CME/Conference	Date	Organized By
1.	Management of Diabetes in COVID 19	CME on World Diabetes Day and Quiz, AIIMS, Raipur	13-14.11.2021	Department of General Medicine in association with Dept of Endocrinology AIIMS Raipur.
2.	Medical Management of mucormycosis	Multidisciplinary Management of Mucormycosis at AIIMS, Raipur	28.08.2021	Dept. of ENT AIIMS Raipur.

**Dr. Rohini Rokkam**

S. No.	Title	CME/Conference	Date	Organized By
1.	100 Years of Insulin	CME on World Diabetes Day and Quiz, AIIMS, Raipur	13-14.11.2021	Department of General Medicine in association with Dept of Endocrinology AIIMS Raipur.

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organized By
1.	Meher J., Siddique M.S, Nagpure K., Rokkam R., Nayak M.K., Biswal S.	Bone marrow eosinophilia causing Pancytopenia in Pulmonary Tuberculosis: A curious case	ATS 2021 (Virtual)	14-19.05.2021	American Thoracic Society
2.	Aswanth S P, Meher J., Siddique M.S., Pandit V. R.	A rare case of Toxin Induced hemolytic anemia	62th HAEMATOCON 2021	10-13.11.2021	Indian society of Haematology and blood transfusion
3.	V.Anil S. Nagpure K., Meher J.,	A Case Of Neuroparalytic Envenomation With Hypothermia And Osborne Wave	API update 2021 C.G. chapter	17.11.2021	API C.G.
4.	Kawale S, Meher J., Siddique M.S., Pandit V. R.	Co-presentation of AIDP with Lupus Nephritis-An intriguing case	State API Update 2021	17.11.2021	API C.G.
5.	Prem R, Meher J., Siddique M.S., Pandit V. R.	Proliferative Glomerulonephritis With Monoclonal Igg DEPOSIT:A CASE OF MGRS	State API Update 2021	17.11.2021	API C.G.
6.	Biswal S, Meher J., Siddique M.S., Pandit V. R. Rokkam R, Kawale S.	Prepulseless phase of Takayasu arteritis: A challenge to physician	IRACON 2021 36th annual conference Indian Rheumatology Association	04-12.12.2021	Indian Rheumatology Association

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	HTA of National Stroke Care Registry Programme- Development of Hospital Based Stroke Registries (HBSR) in different regions of India	Prof. (Dr.) Vinay R. Pandit	ICMR – NCDIR	5 Years	2021-2026	25 lakhs
2.	The standard treatment protocol for diabetes mellitus for CG state: medical officers and CHO training	Prof. (Dr.) Vinay R. Pandit	NPCDCS SIHFW CG state	2 years	2021-2022	62700/-
3.	The standard treatment protocol for hypertension and Stroke: Medical officers and CHO training	Prof. (Dr.) Vinay R. Pandit	NPCDCS SIHFW CG state	2 years	2021-2022	62700/-
4.	A Randomized, Double-blind, Parallel Arm, Dose Optimization Study to Assess Efficacy and Safety of Hydroxychloroquine in Type 2 Diabetes Patients Uncontrolled on Metformin and Sulfonylurea Combination	Dr. Md. Sabah Siddiqui	IPCA Laboratories Pvt. Ltd.	06 Months	2022	325952/-

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
5.	Study of correlation between serum copper, serum zinc, copper-zinc ratio and disease severity scores in sickle cell disease patients.	Dr. Preetam Wasnik	Intramural Funded	One Year	2021-2022	4,72,000/-
6.	An Indian Multi-centric Phase IV study to assess the safety of Crizanlizumab with or without hydroxyurea therapy in sickle cell disease patients with vaso-occlusive crises.	Dr. Pankaj Kumar Kannauje	Novartis Health care	2 years	2021-2023	57 Lakhs
7.	Re-infection with severe acute respiratory syndrome coronavirus-2 (SARS cov-2) among healthcare workers in India	Dr. Pankaj Kumar Kannauje	ICMR	15 Months	2021-2022	10 Lakhs
8.	To study Relative Adrenal Insufficiency in Patients with Chronic Liver Disease (CLD) at Tertiary care Hospital (AIIMS) of Central India: A Prospective interventional (diagnostic), open label study	Dr. Pankaj Kumar Kannauje	Intramural	2 years	2020-2022	40000/-
9.	Prevalence of Autoantibodies and Cytokines in patients of Rheumatoid arthritis and its clinical significance in Indian RA cohort	Dr. Jhasaketan Meher	Intramural	1 year	2021-2022	5,00,000/-

### Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	A Prospective, Multicentric, Randomized, Active-Controlled, Observer-blind, Phase-II Study seamlessly followed by a Phase III study to evaluate the Safety, Tolerability and Immunogenicity of the candidate GEMCOVAC-19 (COVID-19 vaccine) in healthy subjects	Dr. Md. Sabah Siddiqui	Gennova Biopharmaceuticals Limited	06 Months	2021-22	55,18,750/-

### Departmental Projects (Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations)

#### Ongoing

S. No.	Project
1.	Hospitalization Events among Adolescents and Adults with Sickle Cell Disease in AIIMS Raipur.
2.	To study Clinico-etiological profile and severity predictors in Acute Undifferentiated Fever (AUF) at Tertiary care Hospital (AIIMS) of Central India: A Prospective observational study
3.	To study Clinico-etiological profile, severity indicators and outcome in patients with chronic liver disease (CLD) at Tertiary care Hospital (AIIMS) of Central India: A Retrospective Observational study



S. No.	Project
4.	Evaluation of clinical factors affecting corrected count increment on 1-hour and 24-hour after platelet transfusion
5.	Evaluation of efficacy and safety of first line drugs used in the treatment of peripheral neuropathy among elderly population - a randomized, double-blind active comparator pilot study
6.	A Cross sectional Observational study on Clinical characteristics and treatment pattern of Atrial fibrillation patients in a Tertiary care Hospital in Central India.
7.	Spectrum of cardiac events in acute ischemic stroke-a cross sectional study in a tertiary care centre.
8.	Clinical and laboratory profile of patients with lupus nephritis - study from Central India.
9.	Clinical and Epidemiological study of poisoning cases at emergency Department of tertiary care centre.
10.	Clinical and microbiological profile of spectrum of infection in diabetic patients admitted under medicine department in a tertiary care hospital.
11.	Clinical profile antimicrobial sensitivity patterns and in hospital outcomes of the patients with sepsis admitted under medicine department in tertiary care centre.
12.	Etiological study of adults with acute febrile encephalopathy presenting to a tertiary care centre in central India.
13.	Cardiac Autonomic neuropathy (CAN) in newly diagnosed type 2 diabetes mellitus.
14.	Mean Platelet Volume (MPV) and Mean Platelet Volume to Lymphocyte Ratio (MPVLR) in Acute Coronary Syndrome (ACS): A case control study.
15.	Use of Ambulatory Glucose profile (AGP) in monitoring and improved control of Gestational Diabetes Mellitus (GDM).
16.	Mean platelet volume (MPV), platelet Distribution width (PDW) and plateletcrit in Rheumatoid arthritis
17.	Cross sectional study of cardiac dysfunction in sickle cell disease
18.	Clinical profile of patients with Atrial fibrillation attending tertiary care hospital in central India - a Cross sectional study
19.	Clinical and microbiological profile of spectrum of infections in diabetic patients admitted in medicine department in tertiary care centre"
20.	Neutrophil lymphocytes ratio as a predictor of microvascular complications in patients with type 2 DM
21.	Prevalence of peripheral neuropathy in patients of hyperthyroidism: A cross-sectional study
22.	Cardiac manifestations in acute ischemic stroke
23.	Mild cognitive impairment in patients with Type 2 Diabetes Mellitus and its correlation with serum HbA1c levels and Carotid Artery Haemodynamics- A Cross sectional study in tertiary care hospital
24.	Assessing protein energy wasting (PEW) in idiopathic adult-onset nephrotic syndrome (AONS) patients using bioimpedance spectroscopy (BIS)
25.	Micro-albuminuria in rheumatoid arthritis and correlation with disease activity
26.	Clinical presentation and epidemiology of cases presenting with Pancytopenia in a tertiary care centre in central India.
27.	Prevalence of foot ankle arthritis in Rheumatoid arthritis and it's association with clinical phenotypes and clinical indices in AIIMS Raipur
28.	A Cross sectional study on electrocardiographic changes in adults with Sickle cell anemia and its relationship with Disease severity at AIIMS Raipur
29.	Profile of cardiovascular autonomic neuropathy in pre-diabetic patients
30.	Clinical profile of patients with Hypopituitarism in a tertiary care centre in Central India

S. No.	Project
31.	To assess the knowledge, Attitude and practice of diabetic patients towards foot care and to study the clinic-epidemiological profile of diabetic foot disease.
32.	A Cross sectional study on spectrum of renal involvement among Sickle cell anemia patients at AIIMS Raipur”
33.	Clinical Radiological Profile of Acute Ischemic Stroke with Special Emphasis on Pre Hospital Factors Affecting Thrombolytic Therapy in a Tertiary care Centre in central India
34.	Fatty liver in Rheumatoid arthritis
35.	To study the correlation of hyponatremia with disease activity in SLE

### Completed

S. No.	Project
1.	Clinical profile of adult and adolescent patients with severe anaemia presenting to a tertiary centre in central India: an observational study
2.	Study of associations between the serum sodium level and complications of cirrhosis of liver in tertiary care centre

### Collaborative Projects

#### Ongoing

S. No.	Project	Collaborating Department/ Institution
1.	Non-invasive detection and grading of anemia based on smart phone photography both in fingernail bed and palpebral conjunctiva.	IIIT, Raipur
2.	National Covid Clinical Registry	Surgery
3.	Efficacy of sulfonylurea's in patients with polymorphism in KCNJ11-ABCC8 genetic locus: A prospective cohort study in Chhattisgarh Type 2 Diabetic Mellitus patients	Pharmacology
4.	Effect of CYP2C19 and P2Y12 genetic polymorphisms on platelet aggregation in patients on treatment with clopidogrel in Chhattisgarh Population	Pharmacology
5.	B-VOCAL SCD - Burden of Vaso-Occlusive pain crisis: A Cross sectional observational study among patients with sickle cell disease in India	pediatrics

#### Completed

S. No.	Project	Collaborating Department/ Institution
1.	Severity predictor among Covid mortality patients	Surgery
2.	First and Second COVID-19 pandemic waves: A comparative analysis in hospitalized patients at AIIMS, Raipur	Microbiology

## PUBLICATIONS

1. Kannauje P K, Pandit V, Wasnik P N, et al. (2021) Gaucher's Disease in an Adult Female: A Rare Entity. *Cureus* 13(8): e17318.
2. Kannauje P.K, Pandit V R, Wasnik P N, et al. (2021) Wilson's Disease: Diagnosis in Novel Way. *Cureus* 13(10): e18650.
3. Nanda R, Patel S, Wasnik P, Ramchandani R, Mohanty D, Mohapatra E. (2021) Distribution of Apolipoprotein A1 Polymorphism (G-75A and C+83T) in Patients with Diabetic Foot Ulcers- A Parallel Group Hospital Based Observational Study. *J Clin of Diagn Res*, 15(7):BC09-BC14.
4. **Meher J., Siddiqui M., Nagpure K., Rokkam R., Nayak MK., Biswal S.** (2021) Bone marrow eosinophilia causing pancytopenia in pulmonary tuberculosis: A curious case. *American Journal of Respiratory and Critical Care Medicine*, 203(9), A1378.
5. **Ashwanth SP, Meher J., Siddiqui M., Pandit VR.** (2021) A Rare Case of Toxin- Induced Hemolytic Anemia. *Indian J Hematol Blood Transfusion*, 37(Suppl 1):S1–S172.
6. **Kumar A, Pranita.** (2022) "AIDP: Another aspect of COVID 19". *European Journal of Molecular & Clinical Medicine*, 9(3), 736-738.
7. **Kumar A, Pranita.** (2022) Telemedicine: Need of hour; Effectiveness of telemedicine or m health in management of patients during the pandemic of COVID-19. *European Journal of Molecular & Clinical Medicine*, 2022; 9(3): 490-492.
8. Kumar M, Dhar N, Tiwari A, **Siddiqui M S** (2021). Comparison of patterns of infarction in TB and cryptococcal meningitis. *Transactions of The Royal Society of Tropical Medicine and Hygiene*, 115(10), 1160–1167.
9. Sehgal I S, Guleria R, Singh S, **Siddiqui M S**, Agarwal R (2021). A randomised trial of Mycobacterium win critically ill patients with COVID-19: ARMY-1. *ERJ Open Research*, 7(2), 00059–02021.

## Chapter(s) in Books

S. No.	Author (s)	Chapter Title	Editor	Book	Edition	City of Publication	Publisher	Year of Publication	First page- Last page
1	P Thangaraju, <b>P Kannauje</b> , MP Gurunthal-ingam	Adverse Drug Reactions of NSAIDs	P Thangaraju	A Pharmacological guide to Non-steroidal Anti Inflammatory Medications, Pharmacology research, safety testing & Regulation,	1	New york	NOVA science publisher	2021	41-70
2	P Thangaraju, <b>P Kannauje</b> , MP Gurunthal-ingam	NSAID and the AGED	P Thangaraju	A Pharmacological guide to Non-steroidal Anti Inflammatory Medications, Pharmacology research, safety testing & Regulation,	1	New york	NOVA science publisher	2021	157-172

## PATIENT CARE

	OPD	IPD	Major OT	Minor OT	Special Clinics
Total	36109	2888	Nil	Nil	1848

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Prof. (Dr.) Vinay R. Pandit

1. Successfully completed one-year infectious disease course- **Fellowship in Global Infectious Disease (FGID) from Christian Medical College (CMC) Vellore**. Fellowship was awarded at convocation held 20<sup>th</sup> December 2021.
2. Invited member of expert group for **revision of DM Infectious Disease (ID) competency-based guidelines and preparation of Minimum Standard Requirement (MSR) from National Medical Council (NMC)**, November 2021
3. Invited member of expert group for **revision of MD in General Medicine competency-based guidelines and preparation of Minimum Standard Requirement (MSR) from National Medical Council (NMC)**, November 2021
4. Organized National Board of Examinations (NBE) **final practical examinations of General Medicine, at AIIMS Raipur**, as chief coordinator and internal examiner on **13<sup>th</sup> April 2021**.
5. **Nodal officer and master trainer for National Viral Hepatitis Control Programme (NVHCP) for CG state**.
6. Organizing chairperson for **online national webinar on Non-Alcoholic Fatty Liver Disease (NAFLD)** : "Population level strategies for prevention" Jointly organized between AIIMS Raipur and Institute of Liver and Biliary Sciences, New Delhi (ILBS) on 25-05-2021.
7. **Nodal officer and master trainer for Non-Alcoholic Fatty Liver Disease (NAFLD) for CG state**.
8. **Master trainer for training for medical officers on stroke protocol under NPCDCS,**
9. **Master trainer for training medical officers on "Hypertension, Comorbidities, and standard treatment protocol" under NPCDCS** Department of Health and Family Welfare, Raipur, CG. Trained four batches:
10. **Master trainer for training medical officers on "Viral Hepatitis: Three days' Work Shop under NVHCP, SIHFW Raipur .**
11. **Master trainer for training medical officers on "NAFLD training under SIHFW Raipur.**
12. **Master trainer for training medical officers on "Work shop on Stroke under SIHFW Raipur.**
13. **Hypertension, Comorbidities, and standard treatment protocol", under SIHFW Raipur (Virtual).**
14. Participated and **chaired session at Critical Care Ultrasound in Clinical Practice (CCUSC) CME and workshop on 06-11-2021**. Chaired session on "Ultrasound physics, knobology, image acquisition and optimization"
15. Participated and chaired session at **28<sup>th</sup> National Annual Conference of Medical Biochemists (AMBICON) at AIIMS Raipur, 2<sup>nd</sup> – 5<sup>th</sup> December 2021**. Chaired session on theme- Endocrinology and Metabolism- NAFLD, Acanthosis nigricans, insulin secretion"
16. Participated and chaired session in **National Hybrid CME "COVID -19: Human Resilience, Innovation and Hope" organized by Department of Microbiology AIIMS Raipur on 23-10-2021**. Chaired session on "SARS-CoV-2 Strain Circulating During Second Wave: Pilot Study by AIIMS Raipur"
17. Participated in **Hybrid CME on "Multidisciplinary Management of Mucormycosis" on 28 – 08-2021 at AIIMS Raipur** and chaired session on "Management of Mucormycosis"

18. Participated and chaired a session in **National symposium on pulmonary medicine** “Pulmonary Medicine Update 2021” on 18-10-2021 at AIIMS Raipur. **Chaired the scientific session on “Obstructive Airway Disease”**
  19. Invited as **expert for setting OSCE for National Board of Examinations (NBE)** in Emergency Medicine and General Medicine.
  20. General medicine thesis evaluator for NBE, INIs and other universities.
  21. Participated as Panelist “Access to Diabetes Care- Role of Institutes of National Importance in India” **13<sup>th</sup> -14<sup>th</sup> November-2021 organized by** Department of General Medicine in association with Dept of Endocrinology AIIMS Raipur.
  22. Participated as Panelist at Annual State Conference “Medicine Update 2021-New Armamentarium in Diabetes Management – Beyond Metformin” **19<sup>th</sup> December-2021 organized by** Department of General Medicine Pt JNM Medical College, Raipur.
8. **Master trainer for** training in “Diabetes Part-1 and Diabetes and comorbidities” **under** SHRC C.G.
  9. **Master trainer for** training in “NCD ToT MO & RMA” **under** SHRC C.G.
  10. **Master trainer for training medical officers on** “Cardiovascular Diseases Screening and management” **under** NCD Cell Raipur.
  11. **Master trainer for training on** “State TOT in Expanded Service Packages- Emergency Care– for Medical Officers Online Training Using Zoom Platform (4 days)” **NHSRC, NHM & MoHFW.**
  12. Participated as Panelist at Annual State Conference “Medicine Update 2021-New Armamentarium in Diabetes Management – Beyond Metformin” **19<sup>th</sup> December-2021 organized by** Department of General Medicine Pt JNM Medical College, Raipur.

#### Dr. Md. Sabah Siddiqui

1. Completed basic course in biomedical Research Session March to June 2021.
2. Online Training obtained on “Workshop on Multivariate analysis & Graphics with R software” **organized by** Science Tech Institute, Lucknow.
3. **Master trainer for training** “50 CHO’s on STP” **under** SHRC C.G.
4. **Master trainer for** “RMA Training of 44 RMA” **under** SHRC C.G.
5. **Master trainer for** “Offline ETAT Training of 110 Medical Officer” **under** SHRC C.G.
6. **Master trainer for** “Online ETAT Training of 117 Staff Nurses” **under** SHRC C.G.
7. **Master trainer for** “Video Recording of

Management of Hypertension, Treatment of Hypertension, Screening of Hypertension” **under** SHRC C.G.

#### Dr. Pankaj Kumar Kannauje

Certificate course from EULAR school of Rheumatology. Fellowship in Infectious Disease from CMC Vellore. Coordinator for national hepatitis programme.

#### Dr. Jhasaketan Meher

1. **Master trainer for** Training on treatment and support under NVHCP for Nodal officer/Medical officers **under** SIHFW Raipur .
2. **Master trainer** of NAFLD training M.O **under** SIHFW Raipur .
3. **Master trainer for** “State level residential training on COPD & NAFLD for the community health officer of the health department, Chhattisgarh” **under** SIHFW Raipur .



Inauguration of "National CME on Viral Hepatitis" on 24/09/2021



Inauguration of "Critical care unit" on 01/07/2021



Inauguration of "Geriatric Division" on 01/10/2021



Inauguration of "Critical care unit" on 01/07/2021



Hybrid CME- "ENDOMED" in association with Dept of Endocrinology, on world Diabetes day-13th-14th November 2021

# Department of General Surgery

## Professor and Head

Dr. Debajyoti Mohanty

## Additional Professor

Dr. Tridip Dutta Baruah

## Associate Professors

Dr. Radhakrishna Ramchandani

Dr. Dharmendra Dugar

Dr. Rubik Ray

## Assistant Professor

Dr. Chetan Anand

## HIGHLIGHTS

The Department offers varied open and laparoscopic surgical facilities to the patients in need of surgical care in both elective and emergency settings. The Department also provides upper and lower GI diagnostic endoscopy services for the needy patients. The Department is running postgraduate course (MS General Surgery) with annual intake of the ten postgraduate students in two sessions. The Department facilitates round the clock emergency services of the hospital. Specialty clinics in the form of Breast cancer clinic and Hepatobiliarypancreatic disease clinic also run by the Department catering to specific subset of patients. The Department is also designated as a DNB General surgery examination center for the state of Chhattisgarh.

## EDUCATION

The Department undertakes competency based clinical teaching of undergraduate students of four semesters while students of three semesters were taught in didactic lectures. During the clinical postings the students were exposed to the nuances of surgical care offered to the patients in the various work stations like OPD, major and minor operation theatre and IPD. The students were periodically subjected to formative assessment for knowledge gained in clinical and theoretical aspect. The department also organized hands on training program for its interns and residents for fine tuning the surgical skills.

Academic activities for the postgraduate students is being conducted regularly (thrice in every week) in the form of clinical case presentations, journal clubs, topic discussions, and surgico-pathological seminars. The Department started one year PDCC course in breast surgery with an annual intake of two residents.

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Debajyoti Mohanty

S. No.	Title	CME/Conference	Date	Organized By
1.	Panelist on primary and secondary survey of trauma victims	Triage in emergency practice	13.11.2021	Dept of Trauma and Emergency, AIIMS, Raipur

**Dr. Tridip Dutta Baruah**

S. No.	Title	CME/Conference	Date	Organized By
1.	Bullet and Explosive Injury	Training Cum Workshop ITBP Doctors and Paramedical Staff	30.08.2021	Trauma and Emergency, AIIMS-Raipur
2.	Disorders of Urinary tract and Anorectum.	Vertical Integration Class	09.09.2021	Department of Anatomy, AIIMS-Raipur
3.	i) Evaluation and Management of Chronic Pain. ii) Radiofrequency ablation in pain medicine	ISSP National CME& Workshop in Chronic Pain	25.09.2021	Pain and Palliative Clinic, AIIMS-Raipur.
4.	Organ Retrieval	CME and Workshop on Chronic Pain	27.03.2021	Dept. of Urology, Nephrology and School of Public Health, AIIMS-Raipur under the aegis of Organ and Tissue Transplant cell.
5.	Bullet and Explosive Injury	Training Cum Workshop ITBP And CRPF Doctors and Paramedical Staff	30.03.2022	Trauma and Emergency, AIIMS-Raipur

**Dr. Rubik Ray**

S. No.	Title	CME/Conference	Date	Organised by
1.	Diabetic Foot	CME on Foot and Ankle Diseases	21.08.21	AIIMS Raipur

**ORAL PAPERS/POSTERS PRESENTED**

S. No.	Authors	Title	Conference	Date
1.	Suhail M, Dugar D*	A prospective study of evaluation of prognostic factors in necrotizing soft tissue infections(NSTI)	CG ASICON 2022	17.04.22
2.	Dixit K, Dugar D	Combined rupture of the diaphragm and urinary bladder in blunt trauma abdomen: Better to be vigilant at laparotomy than sorry	CG ASICON 2022	17.04.22
3.	Vinayaka H J , Mohanty D, Dugar D.	Fibropolycystic disease of the liver – a rare ductal plate malformation mimicking a hydatid cyst of the liver	CG ASICON 2022	17.04.22
4.	Vinayaka H J, Mohanty D, Dugar D.	Comparison of two-point fixation versus conventional fixation of polypropylene mesh in patients undergoing Lichtenstein repair for inguinal hernia: a pilot study	CG ASICON 2022	17.04.22

\*- Awarded state level Best paper in the competitive section in CGASICON 2022



## RESEARCH

### Ongoing

S. No.	Title	Principal Investigator	Funded by	Duration (years)	Start year-End year	Total funds sanctioned (Rs)
1.	Spectrum of testicular complications following hernioplasty in patients with uncomplicated inguinal hernias	Dr. Debajyoti Mohanty	AIIMS, Raipur	Two	2021	Rs-4,66,000/-
2.	National Clinical Registry Of Covid-19	Dr. Tridip Dutta Baruah	ICMR	One year (To be extended)	Sept2020-Augt2021	Approx 70 Lakhs

### Departmental projects (Non funded projects/ ICMR- STS projects/ Thesis/dissertations)

### Ongoing

S. No.	Title
1.	Evaluation of prognostic factors in necrotizing soft tissue infections
2.	Early versus delayed postoperative dressing removal and incidence of surgical site infection: A randomized controlled, blinded, pilot study among Indian population.
3.	Comparison of topical sucralfate plus metronidazole ointment with diltiazem ointment for the treatment of acute fissure in ano.
4.	A prospective study of assessment of risk factors in abdominal wound dehiscence using Rotterdam risk index score.
5.	RIPASA versus ALVARADO Score for diagnosis of Acute Appendicitis: A comparative study
6.	A randomized controlled trial to assess the effect of changing gloves immediately prior to mesh handling in reducing the surgical site infection rates among patients undergoing glove change versus patients in whom no such change has been undertaken during elective open mesh hernioplasty.
7.	Assessment of accuracy of clinical evaluation with respect to radiological and intra-operative findings in patients of acute abdomen.
8.	Effect of foot exercises on ulcer healing and quality of life in diabetic foot ulcer patients – An open label randomized controlled trial.
9.	Comparison of two point fixation versus conventional fixation of polypropylene mesh in patients undergoing Lichtenstein repair for inguinal hernia: A pilot study.
10.	To study the spectrum of clinical profile, microbiological profile, and morbidity in patients of diabetic foot.
11.	Comparison of Ultra-High- Definition laparoscopy with conventional High-Definition laparoscopy for intra operative adverse effects in patients undergoing laparoscopic Cholecystectomy.
12.	Short term study to assess the risk of Deep vein thrombosis among patients admitted in general surgery wards of AIIMS, Raipur : A prospective, observational study
13.	Qualitative study: Healthcare initiative to increase adherence and fidelity to the surgical safety checklist.

**Completed:**

S. No.	Title of the project
1.	A prospective study of evaluation of preoperative and post operative intra abdominal pressure monitoring and its association with postoperative organ failure assessed using Modified Marshall score in patients undergoing emergency laparotomy for hollow viscus perforation.
2.	Comparison of postoperative outcomes with skin flap raising by harmonic scalpel versus electrocautery during mastectomy
3.	Surgical Antimicrobial Prophylaxis in patient undergoing clean and clean contaminated surgery: adherence to ICMR guidelines and its impact on surgical site infection rate- A prospective, Observational follow up study
4.	Prevalence of gastrointestinal symptoms in Covid-19 patients - A cross-sectional study
5.	Impact of covid-19 pandemic on waitlisted elective surgical patients in a tertiary care hospital : Problems and solutions

**Collaborative projects****Ongoing**

S No	Title	Collaborating Department/institution
1.	Role of infra-red thermometry in the management of Diabetic foot osteomyelitis	Dept Of Endocrinology, AIIMS-Raipur
2.	Intensive Glycemic control for diabetic foot ulcer healing: A multi centric randomizes controlled study.	Dept Of Endocrinology, AIIMS-Raipur
3.	Role of 18 F FDG PET/CT radiomic features and texture analysis parameters in predicting pathological types and hormonal receptor status of the tumors in newly diagnosed breast cancer patients	Dept of Nuclear Medicine, AIIMS, Raipur
4.	Understanding the role of miRNAs in modulating the cellular response of Dendritic cells during posttraumatic sepsis and septic shock	Dept. of Biochemistry, AIIMS, Raipur
5.	MDCT and USG correlation in severity of acute pancreatitis	Dept. of Radio diagnosis, AIIMS, Raipur

**Completed**

S. No.	Title	Collaborating Department/Institution
1.	Mortality predictors in Covid-19 patients: A Retrospective Observational study.	Dept Of Medicine, CFM and Paediatric Surgery, AIIMS-Raipur
2.	Outcome Analysis of Malignancy in COVID-19 Patients: A Single Centre Retrospective Cohort stud	Dept Of Medicine, CFM and Paediatric Surgery, AIIMS-Raipur
3.	A randomized prospective double-blind comparative study to assess the analgesic efficacy of Ultrasound guided Erector Spinae Plane block versus port site infiltration in laparoscopic cholecystectomy	Department of Anesthesia, AIIMS, Raipur
4.	Application of Sydney system for lymph node cytology at a tertiary care center in central India	Department of Pathology, AIIMS, Raipur
5.	Immunophenotypic profile of high grade B cell lymphomas at a tertiary care center in central India	Department of Pathology, AIIMS, Raipur

## PUBLICATIONS:

- Baruah TD, Ray R, Manju R.** Pyoderma Gangrenosum: An Ulcer with Unorthodox Treatment. *Cureus* 2021 Nov 7; 13(11): e19324. DOI 10.7759/cureus.19324.
- Mohanty D, Dugar D.** Conclusion should shun the cloud of confusion. *Ind J surg.* DOI: 10.1007/s12262-021-03193-3
- Ray R, Baruah TD, Mahobia HS, Borkar A.** Pancreatic Lymphangioma: An Unusual Cause of Abdominal Lump. *Cureus* 2021 Nov 10; 13(11): e19452. doi:10.7759/cureus.19452.
- Dugar D, Mohanty D, Mahobia HS, Saha A.** "Comparison of t-tube drainage versus primary closure of CBD after open choledocolithotomy". *Int J Sci Res* 2021; 10(6): 57-59
- Dugar D, Mohanty D, Mahobia HS.** "A comparative study of subcutaneous negative pressure versus simple closure of skin incision following surgery for hollow viscous perforation". *Int J Surg Sci. Res* 2021; 5(2): 269-271
- Dugar D, Mahobia HS, Saha A, Mohanty D.** "Primary hydatid disease of fallopian tubes: the risk of infertility looms large" *Ann parasitol* 2021;67(4):805-807
- Dugar D, Mohanty D, Saha A, Mahobia HS, Manju R.** Postoperative Idiopathic Posterior Reversible Encephalopathy Syndrome- A Rare Case Report. *AJCRS [Internet]* 8 Jul 2021;10(2):24-7
- Mahobia HS, Mohanty D, Dugar D, Goyal A.** Axillary and breast lymphangioma: an unusual cause of breast and axillary lump in adult patients. *GJRA* 2022;11(2):18-20
- Ray R, Mohanty D, Sahu M, Sarangi S, Hussain N.** Diagnosing Tuberculosis of Breast: A "Pendular" Experience. *International Journal of Anatomy Radiology and Surgery* 2021 Jul;10(3): SD01-SD02
- Nanda R, Patel S, Wasnik P, Ramchandani R, Mohanty D, Mohapatra E.** Distribution of Apolipoprotein A1 polymorphism (G-75A and C+83 T) in patients with Diabetic foot ulcers- a parallel group hospital based observational study. *J clin Diag Res* 2021 Jul; 15(7): BC 09-BC 14.
- Karim HMR, Singha SK, Neema PK, Baruah TD, Ray R, Mohanty D, Siddiqui MS, Nanda R, Bodhey NK.** Information technology-based joint preoperative assessment, risk stratification and its impact on patient management, perioperative outcome, and cost. *Discoveries* 2021, 9(2): e130. DOI: 10.15190/d.2020.9
- Kar B, Dugar D, Nayak B, Sharma S, Mohanty D.** Spindle Cell Fibromatosis of Right Arm. *AJORR [Internet]* 28 Jul 2021; 6(1):50-54
- Ajay.P, Anand C, Pai D.** Management of Laparostomy Wound: A complex surgical problem – A case report. *Journal of Medical Science and Clinical research.* Vol 9. Issue 02 Feb 21. 2455.

## Patient Care

	OPD/Tele OPD	IPD	Procedure room	Endoscopy Room	Minor OT	Major OT
Total	25311	1579	8056	482	1025	513

## Special Clinics

- Breast Clinic: Every Wednesday
- Hepato-biliary-pancreatic clinic: Every Friday

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Dr. Debajyoti Mohanty:

1. Appointed expert member of selection panel for recruitment of Surgery specialists at ESIC, Chhattisgarh and public service commission of Chhattisgarh state
2. Faculty for DNB General Surgery resident online training program conducted by NBE.
3. Faculty for the central zone regional refresher course of Association of Surgeons of India in the month of September 2021
4. Faculty for SCOPE course 2021 conducted by Delhi Medical Council.

### Dr. Tridip Dutta Baruah:

1. Online Training course on logistics and supply management system in health care and family welfare conducted by The National Institute of Health and Family Welfare on 5<sup>th</sup>-9<sup>th</sup> July, 2021
2. Online Training course on Hospital Administration conducted by The National Institute of Health and

Family Welfare on 9<sup>th</sup>-12<sup>th</sup> August, 2021

3. "85<sup>th</sup> National Courses on Educational Sciences for Teachers of Health Professions" (NTTC) workshop conducted by the Dept of Medical Education Unit, JIPMER Pondicherry from 25/Oct/2021 till 30/Oct/2021.

### Dr. Dharmendra Dugar:

1. Certification course in Antimicrobial stewardship
2. Certification course in Sample size estimation
3. Certification course in Basic Research Methodology program
4. Certification course in Residents as teachers and leaders

### Dr. Rubik Ray:

1. Associate Fellow of American College of Surgeons
2. Membership of Hernia Society of India
3. Nominated by AIIMS Raipur for country specific training in Oncology by Japan International Cooperation Agency (JICA) under Kagawa University, Japan

# Department of Medical Oncology

## Assistant Professor and Faculty-in-charge

Dr. Yashwant Kashyap

## Assistant Professor

Dr. Amit Kumar

### HIGHLIGHTS

As part of integrated approach for comprehensive cancer care started Palliative and Supportive Cancer Clinic to alleviate suffering of patients and family facing cancer.

As part of patient education and cancer awareness program educational activity started on on World Cancer Day.

### EDUCATION

Oncology orientation program classes focusing on chemotherapy aspects conducted time to time in collaboration with other specialties i.e. pulmonary medicine, Head and Neck Surgery, General Surgery, OBGY.

### CME/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCE

S. No.	Title	CME/Conference	Date	Organised By
1.	5 days Foundation training program with NHM and IAPC on Pain and Palliative Care	Foundation training program	21.3.2022 to 25.03.2022	Dept. of Oncology with NHM & IAPC

### LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

#### Dr. Yashwant Kashyap

S. No.	Title	CME/Conference	Date	Organised By
1.	Chemotherapy Role in Brain Tumors	ANNUAL Brain Tumor Symposium	10.06.2022	Department of Neurosurgery AIIMS Raipur
2.	Introduction to Palliative Care in Cancers	Foundation training program with NHM and IAPC on Pain and Palliative Care	21.3.2022 to 25.03.2022	NHM & IAPC

#### Dr. Amit Kumar

S. No.	Title	CME/Conference	Date	Organised By
1..	CANCER Pain Syndromes	Foundation training program with NHM and IAPC on Pain and Palliative Care	21.3.2022 to 25.03.2022	NHM & IAPC
2.	Gilteritinib overcomes lorlatinib resistance in ALK-rearranged cancer	5 <sup>th</sup> lung cancer year end review	11.12.2021	Cancer Research foundation Mumbai

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	To evaluate the effect of Yoga Therapy in management of Post –Operative Myofacial Pain in Breast CancER Patient.	Dr. Yashwant Kashyap	CCRYN	1 Year	2022-2023	1,30,000/-

## PUBLICATIONS

- Dantis K, Gupta AK, Kashyap NK, **Kashyap Y**, Ranganath TG, Pati SK, Kumar M, Thakur S, Ravina M. Pulmonary sclerosing pneumocytoma masquerading adenocarcinoma with co-existing BRAF V600E and PTEN mutation. *Cancer Treat Res Commun.* 2021;28:100429. doi: 10.1016/j.ctarc.2021.100429. Epub 2021 Jun 29. PMID: 34246179.
- Dantis K, Kashyap Y, Raju A and Bhardwaj S** *Eur J Case Rep Intern Med.* 2021; 8(1): 002248. Published online 2021 Jan 27.
- Agrawal AK**, Noronha V, Patil V, Menon N, Kapoor A, Chougule A, Chandrani P, Prabhash K. Systemic Therapy in Thyroid Cancer. *Indian J Surg Oncol.* 2022 Mar;13(1):68-80. doi: 10.1007/s13193-021-01398-2. Epub 2021 Aug 19. PMID: 35462658; PMCID: PMC8986938.
- Srinivasan S, Kumar S, Vijayasekharan K, **Agrawal AK**. Prevalence and Clinical Outcome of FMS-Like Tyrosine Kinase Mutations Among Patients With Core Binding Factor—Acute Myeloid Leukemia: Systematic Review and Meta-Analysis. *Clinical Lymphoma Myeloma and Leukemia.* 2022 Apr 1;22(4):e221-32.
- Gupta M, Pruthi G, Gupta P, Singh K, Kanwat J, **Tiwari A**. Impact of End-of-Life Nursing Education Consortium on Palliative Care Knowledge and Attitudes Towards Care of Dying of Nurses in India: A Quasi-Experimental Pre-post Study. *American Journal of Hospice and Palliative Medicine®.* 2022 Jun 15:10499091221108342.
- Ghoshal A, Deodhar J, Adhikarla C, **Tiwari A**, Dy S, Pramesh CS. Implementation of an early palliative care referral program in Lung cancer: A quality improvement project at the tata memorial hospital, Mumbai, India. *Indian Journal of Palliative Care.* 2021 Apr;27(2):211-5.

## PATIENT CARE

	OPD		IPD	Procedures	Palliative Medicine and Supportive Care Clinic
	Medical Oncology	Palliative Medicine			
Total	14400	2200	5944	60	250

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

**Dr. Avinash** Senior Resident was invited by American Society of Clinical Oncology (ASCO) as faculty for a 4 Days Training program in Palliative

Medicine in October 2021. Dr. Avinash Tiwari participated in poster presentation at the 29<sup>th</sup> International IAPCON Jaipur organized by IAPC, on Breathe with Ease –Palliation of Dyspnea in ILD on 11.02.2022.

# Department of Microbiology

## Professor and Head

Dr. Anudita Bhargava

## Professor

Dr. Padma Das

## Additional Professors

Dr. Ujjwala Gaikwad  
Dr. Sanjay Singh Negi  
Dr. Archana Keche

## Assistant Professor

Dr. Pragya Agarwala

## HIGHLIGHTS:

The Department Organized an in- house workshop on “Biomedical waste management” for the newly joined nursing officers. A MD thesis from the department received ICMR MD/MS thesis grant with 5th National rank. An oral paper presentation by a PG student, received prize for best paper in bacteriology in the Annual National conference of IAMM (Indian Association of Medical Microbiology)- MICROCON -2021, held in December 2021. Microbiology Department, AIIMS, Raipur is chosen as a regional center for laboratory confirmation of Diphtheria and Pertussis cases under WHO Vaccine Preventable Disease program. The department is the nodal center for a state-wide program on ‘Laboratory diagnosis of

Neonatal Septicemia’, which is approved and funded by NHM, CG and SIHFW, CG.

## EDUCATION

Regular sensitization/ Training programs conducted for different cadres of Health care workers of AIIMS- Raipur on Infection control precautions. Training of nursing officers and medical officers at CHC, Hirapur, Raipur on “Infection control and Prevention” as a part of Community health outreach activity on 20<sup>th</sup> December 2021. Actively engaged in imparting teaching to MD, MBBS and B.Sc. Nursing and B.Sc. MLT for both theory and practical’s of Bacteriology/ Virology/ Mycology/ Parasitology/ Immunology. Also engaged as Coordinator for Microbiology to all the three batches of B.Sc. MLT.

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES

S. No.	Title	CME/Conference	Date	Organized By
1.	A Step Towards Antibiotic Stewardship	Two-Day National Virtual CME	21-22.09.2021	AMSP Committee AIIMS, Raipur
2.	COVID-19: Human Resilience, Innovation & Hope	Successfully organized a one day CME on “COVID-19: Human Resilience, Innovation & Hope” on 23.10.2021 at AIIMS, Raipur.	23.10.2021	Department of Microbiology, AIIMS, Raipur
3.	Laboratory Diagnosis of Viral Hepatitis	Successfully organized a 5 Days Hands – on workshop to Laboratory Technicians on “ Laboratory Diagnosis of Viral Hepatitis”	20-24.12.2021	Department of Microbiology, AIIMS, Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Anudita Bhargava

S. No.	Title	Event	Date	Organized by
1.	Laboratory Diagnosis of Hepatitis B	Hybrid CME on VIRAL Hepatitis under NVHCP	September 2021	Dept. of Medicine, AIIMS-Raipur & NHM, CG
2.	Establishing COVID19 Diagnostic Laboratory Network in Chhattisgarh: Challenges Faced & Solutions	National hybrid CME on 'Human Resilience Innovation & Hope'	October 2021	Department of Microbiology, AIIMS Raipur
3.	Laboratory Diagnosis of Viral Hepatitis	Workshop on Laboratory Diagnosis of Viral Hepatitis	October 2021	NHM, CG under NVHCP
4.	a) Overview-Virology & Pathogenesis of Viral Hepatitis b) Report Writing		December 2021	Dept. of Microbiology & NHM, CG under NVHCP at AIIMS Raipur

### Dr. Padma Das

S. No.	Title	CME/Conference	Date	Organized By
1.	Antimicrobial Stewardship-Need of the Hour	State CME on Hospital Acquired Infections	11.12.2021	KIMS, Bhubaneswar
2.	Antimicrobial Resistance and its Interpretation	Webinar on Antimicrobial Resistance and AMSP	15.05.2021	S.C.B. Medical College. Cuttack
3.	Hospital Antibigram	National CME on "A Step Towards Antibiotic Stewardship"	21-22.09.2021	AIIMS, Raipur
4.	COVID-19 Disease Spectrum: Pulmonary vs Extrapulmonary during 1 <sup>st</sup> and 2 <sup>nd</sup> Wave- Panel Discussion	National CME on COVID-19: Human Resilience, Innovation & Hope"	23.10.2022	AIIMS, Raipur
5.	AMSP: Your Journey So Far	ASPICON-2021 IIIrd National conference on Antimicrobial Stewardship	03-04.12.2021	AIIMS, Patna

### Dr. Ujjwala Gaikwad

S. No.	Title	CME/Conference	Date	Organised By
1.	Hospital Cleanliness and Infection Control	Webinar on Swachhata in National Medical College network	09.04.2021	AIIMS Raipur
2.	Role of MDRO Surveillance in AMSP	CME on "A Step Towards Antibiotic Stewardship"	23.09.2021	AMSP Committee, AIIMS Raipur
3.	Infection Control Precautions	Training Workshop on Laboratory Technicians on Viral Hepatitis: Laboratory Diagnosis	20.12.2021	Dept. of Microbiology, AIIMS Raipur



S. No.	Title	CME/Conference	Date	Organised By
4.	Infection Control Precautions in Emergency Settings	Training of Nursing Officers Under PPNEECO Program	22.02.2022	Department of Pediatrics and Nursing College AIIMS Raipur
5.	Recent Updates in Laboratory Diagnosis of Tuberculosis	World TB Week Celebration under NTEP	22 - 28.03.2022	NTEP core Committee, AIIMS Raipur

### Dr. Sanjay Singh Negi

S. No.	Title	CME / Conference/ workshop	Date	Organised by
1.	Diagnostic Approaches in COVID-19: Advances Witnessed” in National Hybrid CME on COVID-19	National hybrid CME on COVID-19: Human Resilience, Innovation & Hope	23.10.2021	AIIMS, Raipur
2.	Multiple Lectures on Various Aspect of Quality Control and Laboratory Testing of Viral Hepatitis	5 Days Hands – on workshop to Laboratory Technicians on “ Laboratory Diagnosis of Viral Hepatitis”	20- 24.12.2021	AIIMS, Raipur
3.	Laboratory Diagnosis of HCV	One day CME on Viral Hepatitis	24.9.2021	AIIMS, Raipur

### Dr. Archana Keche

S. No.	Title	CME/Conference	Date	Organised By
1.	Mucormycosis: Microbiological Aspect	Hybrid CME on ‘Multidisciplinary Management of Mucormycosis’	28.08.2021	Department of ENT, Head & Neck Surgery, AIIMS, Raipur
2.	Establishing COVID19 Diagnostic Laboratory Network in Chhattisgarh Challenges Faced & Solutions	National Hybrid CME on ‘Human Resilience Innovation & Hope’	21.10. 2021	Department of Microbiology, AIIMS, Raipur

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Das P., V. Sajitha, Keche A. etal	<i>Staphylococcus Haemolyticus</i> as an Important Emerging Hospital Pathogen in Different Clinical Sample with Novel Drug Resistance	HISICON- 2021	29- 31.07.2021	Hospital Infection Control Society, India
2.	V. Sajitha, Das P. etal	Comparison of Diagnostic Modalities for Detection of Mycoplasma Pneumonia in Respiratory Infection in Paediatric Population	MICROCON -2021	21 -24.12.2021	Guwahati Medical College, Assam

S. No.	Authors	Title	Conference	Date	Organised By
3.	V Rekha K., Bhargava A, Negi S.S. and Rathore V. etal	Occult Hepatitis B among Patients on Hemodialysis	MICROCON-2021	21 -24.12.2021	Indian Association of Medical Microbiologists
4.	Gaikwad U.,Padhi A. and Padhi P. etal	3C Bundle Approach to Prevent Bloodstream Infections Due to CRE in Neonates: An Infection Control Strategy	“MICROCON 2021”, 44 <sup>th</sup> annual conference of Indian Association of Medical Microbiologists	22- 24.12.2021	Guwahati Medical College, Assam
5.	Bose O., Gaikwad U., Sahu D., Salila S. and Bhargava A.etal	Genotypic and Phenotypic Differentiation and Clinico-Epidemiological profile of Mycobacterium Tuberculosis Complex Isolates from a Tertiary Care Hospital in Chhattisgarh	“MICROCON 2021”, 44 <sup>th</sup> Annual Conference of Indian Association of Medical Microbiologists	22- 24.12.2021	Guwahati Medical College, Assam
6.	Mohapatra A., GaikwadU., Ranganath TG &Sharma P. etal	Diagnostic Accuracy of Lipoarabinomannan (LAM) Detection in Pleural Tuberculosis (TB)	“MICROCON 2021”, 44 <sup>th</sup> annual conference of Indian Association of Medical Microbiologists	22- 24.12.2021	Guwahati Medical College, Assam
7.	V. Chandiran. K. Venkatesan, Bhise M., Khan W., Gaikwad U. & Bhargava A. etal	A Retrospective Study to Assess the Impact of Ongoing COVID-19 Pandemic on Hand Hygiene Compliance among Health Care Workers, at AIIMS Raipur, Chhattisgarh.	“HISICON -2021” The XVII Annual Conference of Hospital Infection Society India	27 - 31.07.2021	Hospital Infection Society India (on Digital platform)
8.	Mohapatra A., Akshay K., Gaikwad U., Kumar P., Bhargava A., Wankhade A. B., Das P., Arora R. D. & Nagarkar Nitin M. etal	Exploring the Role of Environmental Factors in COVID-19 Associated Mucormycosis in Hospital and Home Settings: A Cross Sectional Analysis	“HISICON -2021” The XVII Annual Conference of Hospital Infection Society India	27 - 31.07.2021	Hospital Infection Society India (on Digital platform)
9.	Rautela P., Kumar P., Varghese N., Siddiqui S., Gaikwad U. & Bhargava A etal	Needle Stick Injuries in COVID-19 Settings: A Descriptive Analysis of Procedural Risk Factors and Outcome.	“HISICON -2021” The XVII Annual Conference of Hospital Infection Society India	27 - 31.07.2021	Hospital Infection Society India (on Digital platform)
10.	Negi SS et al	Genomic Characterization Unravelling the Causative Role of SARS-CoV-2 Delta Variant of Lineage B.1.617.2 in 2 <sup>nd</sup> Wave of COVID-19 Pandemic in Chhattisgarh, India	4 <sup>th</sup> online International conference on infectious diseases, USA	03.04.2021	Online
11.	V Rekha K., Keche A., Bhargava A., Nagarkar Nitin M. & Arora R. D. etal	Multiple & Appropriate Sample Collection Proved to Key for Diagnosis of COVID associated Mucormycosis	ISHAM Asia 2021.	06- 08.08.2021	ISHAM
12.	Akshay K, Keche A., Ranganath TG. & Das P. etal	Clinicomycological Study of Spectrum of Pulmonary Aspergillosis at AIIMS, Raipur	ISHAM Asia 2021.	06- 08.08.2021	ISHAM

S. No.	Authors	Title	Conference	Date	Organised By
13.	Keche A., Kartika J. & Bhargava A. etal	Isolation & Identification of Fungi in COVID Associated Mucormycosis (CAM) Patients; A Study from Tertiary Care Hospital in Central India.	CME on Clinicomycology Update	27.10.2021	SRMC Chennai
14.	Akshay K, Keche A., Ranganath TG. & Das P etal	Clinicomycological Study of Spectrum of Pulmonary Aspergillosis At AIIMS, Raipur	MICROCON 2021	14 – 22.12.2021	Guwahati Medical college & IAMM
15.	Mohapatra A., Wankhade A.B. & Khatoon S. etal	Chance Isolation of <i>Acanthamoeba spp</i> from A Post-Covid Patient <u>Atish Mohapatra</u> , Archana B. Wankhade, Shagufta khatoon	XV Annual Conference of Indian Academy of Tropical Parasitology (IATP), December 10-11, 2021	10-11.12.2021	PGI Chandigarh
16.	Kaur H.P., Keche A., Khatoon S., Sahu D., & Bhargava A. etal	Detection of a Lophomonas, A Rare Pathogen In Broncho Alveolar Lavage: A Case Report	XV Annual Conference of Indian Academy of Tropical Parasitology (IATP), December 10-11, 2021	10-11.12.2021	PGI Chandigarh

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	Microbiological Surveillance of SNCUs of Chhattisgarh: A State-Wide Project Funded by UNICEF. The Project Ended in August 2021.	Dr. Anudita Bhargava	UNICEF	3 years	2018-2021	Approx. 2.5 crores
2.	SARS-CoV-2 Sero-Surveillance Among Healthcare Workers at A Tertiary Care Reference Centre in Central India: A Cross-Sectional Study	Dr. Anudita Bhargava	AIIMS-Raipur	6 months	2021-2021	4.5 lakhs
3.	Validation of COVID-19 RAT Kits'. Started in 2020 and Still Continuing.	Dr. Anudita Bhargava	DHR-ICMR	3 years	2020-continuing	2 lakh p.a
4.	Occult Hepatitis B Infection (OBI) Among Chronic Kidney Disease (CKD) Patients in ATertiary Health Care Centre: A Preliminary Study. (Thesis Dissertation of MD Student Completed)	Dr. Kranthi Reka V Chief Supervisor- Dr. Anudita Bhargava	AIIMS-Raipur	1.5 years	2020-2021	PG thesis grant (50,000/-)

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
5.	Regional Centre for Laboratory Confirmation of Pertussis and Diphtheria Case	Dr. Padma Das	WHO	2021-Continuing	No monetary funds provided. Laboratory consumable provided	
6.	Development of an Aptamer NanoZyme based Colorimetric Assay for Pediatric Scrub Typhus	Dr. Padma Das	DBT	2022-Continuing	26 lakhs	
7.	Pan India Epidemiological, Virological and Genomic Surveillance for Human Influenza and COVID-19 through DHR-ICMR VRDL Network	Dr. Sanjay Singh Negi	DHR-ICMR	One Year; Renew every year	2021	6,29,000.00
8.	Monitoring of Dengue and Chikungunya Viruses Circulating in India for Changes in the Serotype, Genotypes and Lineages Utilizing Viral Research & Diagnostic Laboratories Network	Dr. Sanjay Singh Negi	DHR-ICMR	One Year; Renew every year	2019	VRDL fund
9.	Assessment of Neuraminidase Inhibitor Susceptibility by Detecting H275Y Mutation in Influenza A (H1N1)pdm09 virus	Dr. Sanjay Singh Negi	DHR-ICMR	One Year; Renew every year	2019	VRDL fund
10.	Spectrum of Dermatophytes Infections & Drug Susceptibility Pattern of Dermatophytes from Patients of AIIMS, Raipur	Dr. Archana Keche	AIIMS Raipur (Intramural project)	2	August 2019- Feb 2022	3,30,000

### Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	Capacity Building and Strengthening of Hospital Infection Control to Detect and Prevention of Antimicrobial Resistance in India	Dr. Padma Das	CDC-	4 years	September 2017- September 2021	Approximately 50 Lakhs
2.	ICMR Ad HOC Project on AMSP	Dr. Padma Das	ICMR	1 year	2020-2021	10 Lakhs
3.	Evaluation of Fluorescein Diacetate Viability Staining during Follow Up Examination of Smear Positive Pulmonary TB Patients put on Category I Daily Treatment Regimen to Identify the Patients requiring DST at the End of Intensive Phase	Dr. Ujjwala Gaikwad	Extramural (NTEP)	2 years	Sep 2019 to Sep 2021	2,00,000/-

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
4.	Genetic Analysis of Circulating SARS-CoV-2 Strains Obtained from Symptomatic and Asymptomatic Patients of COVID-19 in Chhattisgarh	Dr. Sanjay Singh Negi	AIIMS, Raipur	One and Half Years	2021-2022	5 Lakh
5.	SARS-CoV-2 Sero-Surveillance Among Healthcare Workers at A Tertiary Care Reference Centre in Central India: A Cross-Sectional Study	Dr. Anudita Bhargava	AIIMS-Raipur	6 months	2021-2021	4.5 lakhs
6.	Developing In-House Polymerase Chain Reaction (PCR) for Ameliorating Diagnostic Modalities of Scrub Typhus and its Comparison with IgM Capture ELISA.	Dr. Sanjay Singh Negi, Dr. Rishika Prakash, Dr. Anudita Bhargava, et al.	PG research departmental funding	One and Half Year	2020-2021	PG research departmental funding
7.	Evaluation of Prevalence of HPV in Head and Neck Malignancies.	Dr. Ripudaman Arora, Dr. Sanjay Singh Negi, et al	AIIMS, Raipur	Two Years	2020-2022	5 Lakh
8.	ICMR National Risk Force Project Entitled, 'Risk Factors for COVID Associated Mucormycosis in India: A Case Control Investigation'	Dr. Archana Keche	ICMR	4Months	2/08/21-1/12/2021	4,59,133

## Departmental Projects – Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations

### Ongoing

S. No.	Project
1.	Developing In-House Polymerase Chain Reaction (PCR) for ameliorating diagnostic modalities of Scrub Typhus and its comparison with IgM capture ELISA. Co-Guide of a Thesis dissertation of a Microbiology PG student
2.	Epidemiological, Clinico-radiological & immunological profile of Rhinosporidiosis-A study from Central India. Co-Guide of a Thesis dissertation of an ENT PG student
3.	COVID-19 and Kids: An epidemiological study Co-Guide of a Thesis dissertation of A Paediatric PG Student
4.	Evaluation of Efficacy of Presepsin as a Biomarker in Neonatal Sepsis-A pilot study (MD thesis)
5.	Utility of Surveillance Cultures and Infection Control Bundle Compliance rates to Predict Catheter Colonization and CLABSI among Patients undergoing Acute Haemodialysis through Non-Tunnelled catheter (MD thesis)
6.	Evaluation of Dried Blood Spot(DBS) for Diagnostic Feasibility in the Detection of Anti-HCV RNA Quantitation and RNA Genotyping, a MD Thesis work of Dr. Rujuta.

S. No.	Project
7.	Clinico-Mycological Study of Post Covid Mucormycosis reported to Tertiary Care Hospital in the State of Chhattisgarh
8.	Utility of Molecular methods in Diagnosis of Filamentous Fungal Infections with Special Reference to Mucormycosis, Aspergillosis & Pneumocystosis
9.	First and Second COVID-19 Pandemic Waves: A Comparative Analysis of Demographic, Clinical and Laboratory Parameters in Hospitalized Patients at AIIMS, Raipur

### Completed

S. No.	Project
1.	Comparison of Diagnostic Modalities for Mycoplasma Pneumonia in Clinically suspected Pneumonia cases in 5-15 year Age Group
2.	Occult Hepatitis B Infection (OBI) among Chronic Kidney Disease (CKD) Patients in a Tertiary Health Care Centre: A preliminary Study. (Thesis Dissertation of MD Student Completed)
3.	Genotypic and Phenotypic Differentiation and Clinico-Epidemiological profile of Mycobacterium Tuberculosis Complex Isolates from a Tertiary Care Hospital in Chhattisgarh (MD thesis)
4.	Diagnostic Accuracy of Lipoarabinomanann Antigen Detection in Pleural Tuberculosis (MD thesis)
5.	3C Bundle Approach to Prevent Blood Stream Infections due to Carbapenem Resistant Enterobacteriaceae in Neonates: An Infection Control Strategy. (ICMR STS project)
6.	A Retrospective Evaluation of COVID-19 Exposures resulting from PPE Breach among the Health Care Workers (Intramural non funded project)
7.	STS Project Entitled "Detection of Candida Auris Colonization & Its Ability Of Biofilm Production In Patients Admitted In High Dependency Unit (HDU) Of Tertiary Care Hospital In Central India."
8.	Clinico-Mycological Study of Spectrum Of Pulmonary Aspergillosis In Central India
9.	An Audit of Requisitions for Total Serum IgE: A Pilot Study to Evaluate Clinical Utility of Serum IgE Estimation. (ICMR-STs Project of MBBS Student Started after Approval from ICMR)

### Collaborative Projects

#### Ongoing

S. No.	Project	Collaborating Department/ Institution
1.	Estimation of Risk Associated with Zoonotic TB in India (Multicentric, extramural)	Department of Microbiology, Christian Medical College, Vellore
2.	A Randomized Controlled Trial to Assess the Effect of Changing Gloves Immediately Prior to Mesh Handling in Reducing the Surgical Site Infection Rates Among Patients Undergoing Glove Change Versus Patients in Whom No Such Change Has Been Undertaken During Elective Open Mesh Hernioplasty	Department of General Surgery, AIIMS Raipur.
3.	Assessment of Transmission Dynamics and Epidemiological Determinants of COVID-19 in A Tertiary Care Teaching Hospital of India Through Analysis of Contact Tracing Investigations	Department of Community and Family Medicine, AIIMS Raipur
4.	Role of Gene-Xpert on Pleural Biopsy Specimen Following Thoracoscopy or Thoracotomy	Department of CTVS, AIIMS Raipur

S. No.	Project	Collaborating Department/ Institution
5.	HLA Association in Leprosy Patients from an Endemic Area of Central India: A Case- Control Study	Department of Dermatology
6.	Pan India Epidemiological, Virological and Genomic Surveillance for Human Influenza and COVID-19 Through DHR-ICMR VRDL Network	DHR-ICMR
7.	Monitoring of Dengue and Chikungunya Viruses Circulating in India for Changes in the Serotypes, Genotypes and lineage utilizing VRDL Network	DHR-ICMR
8.	Assessment of Neuraminidase Inhibitor Susceptibility by Detecting H275Y Mutation in Influenza A (H1N1) pdm09 Virus During 2018-2019 Seasons	DHR-ICMR
9.	Intestinal Parasitic Infection as an Associated Risk Factor for Severe Acute Malnutrition in Rural Children in Age Group 6m-5yrs Of Raipur District: A Case Control Study	Department of Pediatrics, AIIMS Raipur
10.	Follow-Up and Outcome of COVID Associated Mucormycosis Patients at A Tertiary Care Center in Central India	Department of ENT, Head & Neck Surgery, AIIMS Raipur
11.	Role of Histopathological Findings As an Aid in the Prognosis of Post COVID-19 Rhino-Orbito-Cerebral Zygomycosis	Department of Pathology, AIIMS Raipur
12.	Detecting Vertical Transmission of Beta Coronavirus SARS-CoV-2 from Infected Pregnant Women to Fetus in Utero.	Department of Gynecology and Obstetrics, AIIMS Raipur
13.	SCOPE Study – Standardization of COVID in Pregnancy Standardizing of Data Collection and Protocol for Improving the Quality of Evidence on Clinical Characteristics and Outcomes of COVID-19 & Pregnancy.	Department of Gynecology and Obstetrics, AIIMS Raipur

### Completed

S. No.	Project	Collaborating Department/Institution
1.	Capacity Building and Strengthening of Hospital Infection Control to Detect and Prevent Antimicrobial Resistance in India	AIIMS, New Delhi, All ICUs of AIIMS, Raipur
2.	Burden of Multidrug-Resistant Neonatal Sepsis in District Hospital Settings in India	Department of Pediatrics-AIIMS-Raipur Institutions- AIIMS-New Delhi, AIIMS-Jodhpur, AIIMS-Raipur, JIPMER Puducherry, GMCH- Chandigarh & Assam Medical College and Hospital-Dibrugarh
3.	AIIMS, Raipur: Initiating Antimicrobial Stewardship Activities in Hospitals in India	AIIMS, New Delhi, Hospital administration, Dept. of Pharmacology & All ICUs of AIIMS, Raipur,
4.	Impact of Conducting Hand Hygiene Audit in COVID-19 Care Locations of India—A Large Scale National Multicentric Study	JIPMER Puducherry

### PUBLICATIONS

1. **Shagufta Khaton, Sanjay S. Negi, Namrata Chhabra, Anudita Bhargava, Padma Das, Priyanka Singh, Somya Sharma.** Diagnostic utility of PCR in detection of clinical cases and carriers of Leprosy: A cross sectional of a tertiary care teaching hospital in Central India. Indian Journal of Medical Microbiology 40 (2022) 105–108.
2. Chaitra S, Jobin J J, Suganya G S, Lavanya N, Camilla R, Purva M, Dip Narayan M, Anita S, Chitnis D.S., **Anudita B**, Abi M, Karthik G & Balaji V. Distinctive Mobile Genetic Elements Observed

- in the Clonal Expansion of Carbapenem-Resistant *Klebsiella pneumoniae* in India. *Microbial Drug Resistance*. 2021; 00(00): Mary Ann Liebert, Inc. DOI: 10.1089/mdr.2020.0316
3. **Kuldeep Sharma, Pragya Aggarwala, Deepa Gandhi, Anuniti Mathias, Priyanka Singh, Somya Sharma, Sanjay Singh Negi, Anudita Bhargava, Padma Das, Ujjwala Gaikwad, Archana Wankhede, Ajay Behra and Nitin M. Nagarkar.** Comparative analysis of various clinical specimens in detection of SARS-CoV-2 using rRT-PCR in new and follow up cases of COVID-19 infection: Quest for the best choice. *PLoS ONE* 16(4): e0249408. <https://doi.org/10.1371/journal.pone.0249408>
  4. Yadav PD, Nyayanit DA, Majumdar T, Patil S, Kaur H, Gupta N, **Bhargava A**, et al. An Epidemiological Analysis of SARS-CoV-2 Genomic Sequences from different regions of India. *Viruses* 2021, **13**, 925. <https://doi.org/10.3390/v13050925>
  5. **Negi SS, Sharma K**, Sharma D, **Singh P, Agarwala P**, Hussain N, Bhargava A, Das P, Agarwal S. Genetic analysis of human papilloma virus 16 E6/E7 variants obtained from cervical cancer cases in Chhattisgarh, a central state of India. *Virusdisease*. 2021 Sep;32(3):492-503. doi: 10.1007/s13337-021-00727-x. Epub 2021 Jul 26. PMID: 34631976; PMCID: PMC8473527.
  6. **Pushpendra Singh, Kuldeep Sharma, Priyanka Singh, Anudita Bhargava, Sanjay Singh Negi, Pratibha Sharma, Mayuri Bhise**, Manish Kumar Tripathi, Atul Jindal, Nitin M. Nagarkar. Genomic characterization unravelling the causative role of SARS-CoV-2 Delta variant of lineage B.1.617.2 in 2nd wave of COVID-19 pandemic in Chhattisgarh, India. *Microbial Pathogenesis* 164 (2022);105404. <https://doi.org/10.1016/j.micpath.2022.105404>
  7. Parija D, Kar BK, **Das P**, Mishra JK, Agrawal AC, Yadav SK. Septic arthritis of knee due to *Burkholderia pseudomallei*: a case report. *Trop Doct*. 2020 Jul;50(3):254-257. doi: 10.1177/0049475520925382. Epub 2020 May 21. PMID: 32437295.
  8. Sahu V, Mallika Pathak M, **Das P**, et al. (December 04, 2021) *Corynebacterium jeikeium* as an Unusual Cause of Keratitis: A Case Report From a Tertiary Care Hospital in Chhattisgarh, India. *Cureus* 13(12): e20164. doi:10.7759/cureus.20164.
  9. Simran, **Ujjwala Gaikwad**, Sabah Siddiqui. Asymptomatic bacteriuria persisting beyond 48 hours of catheter removal: Are we missing the true CAUTI burden on surveillance? Accepted for publication in *Journal of infection in developing countries*. 2021 (In press)
  10. Pal R, Shukla A, Galhotra A, **Gaikwad U**. Situational analysis of WASH facilities in Maternity units of a District of Central India. *Int J Cur Res Rev* 2022; 14(2). DOI: <http://dx.doi.org/10.31782/IJCRR.2022.14207>.
  11. **Sharma K, Aggarwala P, Gandhi D, Mathias A, Singh P, Sharma S, Negi SS\***, et al. Comparative analysis of various clinical specimens in detection of SARS-CoV-2 using rRT-PCR in new and follow up cases of COVID-19 infection: Quest for the best choice. *PLoS One*, 2021; ONE 16(4): e0249408. <https://doi.org/10.1371/journal.pone.0249408>.
  12. **Agarwala P, Bhargava A**, Gahwai DK, **Negi SS**, Shukla P, Dayama S. Epidemiological characteristics of the COVID-19 Pandemic during the first and second waves in Chhattisgarh, Central India: A Comparative Analysis. *Cureus*, 2022; 14(4): 324131. doi: 10.7759 / Cureus.24131.
  13. Joshi P, Nayak S, Ravina M, **Keche A**, Rathore V. Membranoproliferative glomerulonephritis: A rare presentation of occult filariasis. *Trop Doct*. 2021 May 29:494755211019913. doi: 10.1177/00494755211019913. Epub ahead of print. PMID: 34056972.
  14. Mehta R, Nagarkar NM, Jindal A, Rao KN, Nidhin SB, Arora RD, Sharma A, **Wankhede A**, Satpute S, Chakravarty S, Agrawal NK, Pranita, Kannauje P, Behera A, Thangaraju P. Multidisciplinary Management of COVID-Associated Mucormycosis Syndemic in India. *Indian J Surg*. 2021 Oct



6:1-9. doi: 10.1007/s12262-021-03134-0. Epub ahead of print. PMID: 34642558; PMCID: PMC8493768

15. **Wankhade, AB**, Patro P , Mishra N, **Das P**. Successful culture of Acanthamoeba remains a key towards diagnosis of unusual clinical presentation of keratitis, Journal of Family Medicine and Primary Care: October 2021 - Volume 10 - Issue 10 - p 3904-3907 doi: 10.4103/jfmpc.jfmpc\_369\_21

16. Daman RD, Nagarkar NM, Sasank, K. S. B. S.

Krishna Thangaraju Pugazhenthan; MehtaR; Satish S.<sup>1</sup>; Chakravarty, **Keche A**, Aggarwal, , TY Sree Sudha. Epidemic in pandemic, Journal of Family Medicine and Primary Care: February 2022 - Volume 11 - Issue 2 - p 807-811 doi: 10.4103/jfmpc.jfmpc\_1352\_21

17. **Keche A**, Nagarkar NM, Salila S, RD Arora, Mehta R and Tigga R et al. "Multiple and Appropriate Sampling Proved as Key for Early Diagnosis of COVID Associated Mucormycosis". *Acta Scientific Otolaryngology* 4.2 (2022): 02-07.

## Edited Book and Monograph

### Book

S. No.	Author(s)	Chapter Title	Editor	Book	Edition	Publisher	Year of Publication	First page-Last page
1.	Archana Keche	Microbiological aspect of Rhinosporidiosis	Nitin M Nagarkar, Rupa Mehata	Rhinosporidiosis	1	Springer	2022	17-32

## PATIENT CARE

	Diagnostic Test Performed
Total	19,3694

- Routinely providing diagnostic services from Bacteriology (~250-300 samples per day), Serology ((~250-300 samples per day), Mycobacteriology (~50-60 samples per day), Mycology (~50-60 samples per day), Parasitology (~15-20 samples per day), Virology/Molecular tests (~10-20 samples per day).
- Virology laboratory of the department started new diagnostic testing facility for HBV, HCV, HSV, Dengue serotyping, Chikungunya, JE, Zika, viral meningitis (HSV, EBV, CMV, Adenovirus, HHV-6 &7, Human Parvovirus 19, Enterovirus, Parechoviruses) and respiratory virus panel (Inf A, B, H1N1, RSV, Parainfluenza 1,2,3,4, SARS-CoV-2, Coronavirus HKU1/NL63, Rhinovirus/enterovirus, Adenovirus, Metapneumovirus).
- Mycology laboratory started detection of

Galactomannan facility for diagnosis of invasive Aspergillosis, serological diagnosis of Echinococcosis (by ELISA, detecting IgG Antibody) and standardized RT-PCR test for detection of Pneumocystis, Aspergillosis & Mucormycosis.

- Mycobacteriology laboratory started 2<sup>nd</sup> line LPA.

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

- Dr. Oshrika Bose and Dr. Atish Mohapatra got the papers on their thesis work shortlisted for the prestigious Belgaum – Mumbai Prize for the best paper in Mycobacteriology during MICROCON 2021, the annual conference of India Association of Medical Microbiologists.
- Dr. Ujjwala Gaikwad visited AIIMS Bhopal as a member of peer assessment team for peer assessment under Kayakalp program of Government of India in November 2021.

# Department of Neonatology

## Assistant Professor

Dr. Phalguni Padhi (In-Charge)

## HIGHLIGHTS

Neonatal unit is capable of managing extreme premature baby with provision of highest level of neonatal care with compassion. In both waves of COVID-19, the Department has managed COVID suspected and Covid positive babies in isolation area.

Proposal for DM in neonatology has been accepted by academic committee.

## EDUCATION-

Teaching and training program of PDCC fellows in

neonatology that includes one journal, topic and case presentation per week with one mortality / perinatal meet per month. Training of trainers for Kangaroo mother care at SNCU. Already 20 batches of medical officers and nurses have been trained for this purpose. Mentoring visit and training of medical officers/nurses at SNCU. Teaching and training program of Medical officers posted for 6 week pediatric training. Training and presentation by nursing officers once per week is also performed. Interdepartmental teaching of fellows is also regularly done.

## RESEARCH

### Departmental Projects (Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations)

#### Ongoing

S. no	Project
1.	To study the feasibility of ultrasound (USG) evaluation of tip position of central catheter in neonates and to determine agreement between radiograph (X-ray) and USG based assessment, a prospective observational study

### Collaborative Projects

#### Ongoing

S. No.	Title	Collaborative Department
1.	prenatal diagnosis of congenital anomalies-prevalence, pattern and perinatal outcome	Obstetrics and Gynaecology
2.	Assosiation of ROP severity and postnatal weight loss	OPHTHALMOLOGY
3.	Stage based integrated management using Barcelona protocol versus conventional management of fetal growth restriction and perinatal outcome: A randomized controlled trial	Obstetrics and Gynaecology
4.	Study of Emerging Biomarkers in Acute Kidney Injury in Term Neonates with Perinatal asphyxia – A Nested Case Control Study	Pediatrics
5.	Initiating Antimicrobial Stewardship activities in hospitals in India	<b>Microbiology</b>
6.	Analyzing platelet and FFP transfusion in infants and best recommendations	Transfusion medicine

**Completed**

S. No.	Project	Collaborating Department/ Institution
1.	Correlation between abnormal CTG and Cord ABG	Obstetrics and Gynaecology
2.	Detecting intrauterine transmission of sars covid 19 from infected mother to neonates	Obstetrics and Gynaecology

**PUBLICATIONS****Abstracts Published in Journal(s):**

- Patel S, Priya R, Padhi P, Naik T, Abraham J, Nanda R, Mohapatra E. Prevalence of congenital hypothyroidism and G6PD deficiency in newborns in a tertiary care hospital of Central India. *J Neonat*, 2021;35(1):5-9. DOI: 10.1177/0973217920987713
- Patel S, Verma N, Padhi P, Naik T, Nanda R, Naik G, Mohapatra E. Retrospective analysis to identify the association of various determinants on birth weight. *J Fam Med Pri Care*, 2021;10(1):496-501. DOI: 10.4103/jfmpc.jfmpc\_1493\_20
- Patel S, Priya R, Padhi P, Naik T, Nanda R, Mohapatra E, Agrawal S. Newborn Screening-A bolstering step towards quality health in neonates. *Ind J Neo Med Res*, 2021;9(1):44-50. DOI: 10.7860/IJNMR/2021/46844.2293
- Priyadarshini Patro, Padma Das, Phalguni Padhi. Intrinsically Resistant Bacteria as Looming Disaster: A Rare Case Report of *Elizabethkingia meningoseptica* Meningitis in a Neonate

# Department of Nuclear Medicine

## Assistant Professor & Faculty In Charge

Dr. Mudalsha Ravina

## HIGHLIGHTS

The Department started the PET-CT guided biopsy for intrathoracic lesions with robotic navigation

system in collaboration with Pulmonary Medicine Department. The main advantage being that we can plan biopsy from most viable/FDG avid areas.

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

Dr. Mudalsha Ravina

S. No.	Title	CME/Conference	Date	Organized By
1	Standardizing Reporting Formats Amongst Institutions	13 <sup>th</sup> NCSI conference 2021	03.10. 2021	National Cardiological society of India (Online Mode)
2	Cases That Taught Us The Most	SNMICON2021	18.12.2021	Society of Nuclear Medicine India (Online Mode)

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	<b>Dasgupta S, Ravina M,</b> Singh S, Thakur C, Lukose TT, Bansal H, Krishna S, Kote RB	Assessment of right ventricular ejection fraction by first pass radionuclide ventriculography and its comparison with Echocardiography determined surrogate markers of right ventricular function in patients with dilated cardiomyopathy	ANMPICON 2021 1 <sup>st</sup> in poster presentation	17.09.2021	AIIMS, Bhubhaneshwar
2.	<b>Bansal H, Ravina M,</b> Singh S, Thakur C, Shukla AK, Lukose TT, Moideen A, Krishna S, Dasgupta S, Kote RB	Role of PET/CT in assessment of cardiac viability in patients of CAD associated left ventricular dysfunction	ANMPICON 2021 2 <sup>nd</sup> in poster presentation	17.09.2021	AIIMS, Bhubhaneshwar
3.	<b>Kote RB, Ravina M,</b> Lukose TT, Gupta RK, Ramchadani RK, Dutta T, Moideen A, Bansal H, Krishna S, Dasgupta S	Role of textural parameters in predicting histological & molecular subtype in grade of tumour in breast cancer patients	ANMPICON 2021 3 <sup>rd</sup> in oral paper presentation	17.09.2021	AIIMS, Bhubhaneshwar

S. No.	Authors	Title	Conference	Date	Organised By
4.	<b>Krishna S, Ravina M</b> , Nanda S, Shukla AK, Lukose TT, Moideen A, Bansal H, Dasgupta S, Kote RB	Role of 18F-FDG PET/CT in initial staging and prediction of bone marrow involvement in patients with newly diagnosed lymphoma in correlation with bone marrow study	ANMPICON 2021	17.09.2021	AIIMS, Bhubhaneshwar
5.	<b>Bansal H, Ravina M</b> , Singh S, Thakur C, Shukla AK, Lukose TT, Moideen A, Krishna S, Dasgupta S, Kote RB	Role of PET/CT in assessment of cardiac viability in patients of CAD associated left ventricular dysfunction	NCSI 2021 3 <sup>rd</sup> Prize in oral paper presentation	02.10.2021	Fortis, New Delhi
6.	<b>Dasgupta S, Ravina M</b> , Singh S, Thakur C, Lukose TT, Bansal H, Krishna S, Kote RB	Assessment of right ventricular ejection fraction by first pass radionuclide ventriculography and its comparison with Echocardiography determined surrogate markers of right ventricular function in patients with dilated cardiomyopathy	NCSI 2021 2 <sup>nd</sup> Prize in oral paper presentation	02.10.2021	Fortis, New Delhi
7.	<b>Kote RB, Ravina M</b> , Lukose TT, Gupta RK, Ramchadani RK, Dutta T, Moideen A, Bansal H, Krishna S, Dasgupta S	Role of textural parameters in predicting histological & molecular subtype in grade of tumour in breast cancer patients	SNMICON 2021	16.12.2022	NIMS Hyderabad
8.	<b>Dasgupta S, Ravina M</b> , Singh S, Thakur C, Lukose TT, Bansal H, Krishna S, Kote RB	Assessment of right ventricular ejection fraction by first pass radionuclide ventriculography and its comparison with Echocardiography determined surrogate markers of right ventricular function in patients with dilated cardiomyopathy	SNMICON 2021	16.12.2022	NIMS Hyderabad
9.	<b>Bansal H, Ravina M</b> , Singh S, Thakur C, Shukla AK, Lukose TT, Moideen A, Krishna S, Dasgupta S, Kote RB	Role of PET/CT in assessment of cardiac viability in patients of CAD associated left ventricular dysfunction	SNMMI (mid-winter) 2022	26.02. 2022	SNMMI Florida
10.	<b>Dasgupta S, Ravina M</b> , Singh S, Thakur C, Lukose TT, Bansal H, Krishna S, Kote RB	Assessment of right ventricular ejection fraction by first pass radionuclide ventriculography and its comparison with Echocardiography determined surrogate markers of right ventricular function in patients with dilated cardiomyopathy	SNMMI (mid-winter) 2022	26.02. 2022	SNMMI Florida

S. No.	Authors	Title	Conference	Date	Organised By
11.	<b>Kote RB, Ravina M,</b> Lukose TT, Gupta RK, Ramchandani RK, Dutta T, Moideen A, Bansal H, Krishna S, Dasgupta S	Role of textural parameters in predicting histological & molecular subtype in grade of tumour in breast cancer patients	SNMMI (mid-winter) 2022	26.02. 2022	SNMMI Florida

### Departmental Projects – Non-Funded Projects/ ICMR-STC Projects/ Thesis/Dissertations

#### Completed

S. No.	Project
1.	Role of 99m-Tc TRODAT in differentiating between idiopathic Parkinson's disease and drug induced Parkinson's.
2.	Role of FDG PET-CT in assessment of myocardial viability in patients with coronary artery disease associated left ventricular dysfunction
3.	Role of splenic scintigraphy in sickle cell anemia

#### Collaborative Projects

#### Ongoing

S. No.	Project	Collaborating Department/ Institution
1.	Role of 18F- FDG PET-CT in initial staging & prediction of bone marrow involvement in newly diagnosed lymphoma patients in correlation with bone marrow study.	Radiotherapy
2.	Role of FDG PET-CT in pretreatment evaluation of oral carcinoma	ENT and HNS
3.	Assessment of right ventricular ejection fraction by first pass radionuclide ventriculography and its comparison with echocardiography determined surrogate marker of right ventricular function in patients with dilated cardiomyopathy	Cardiology
4.	Role of textural parameters in predicting histological & molecular subtype in grade of tumour in breast cancer patients	Medical oncology, Pathology, General Surgery
5.	Role of triple phase bone scintigraphy in TMJ arthritis	OMFS
6.	Positron Emission Tomography (PET) with Contrast Enhanced Computerized Tomography (CECT) versus CECT versus Magnetic Resonance Imaging (MRI) for Initial Evaluation of Oral Cancers – A Three Parallel Arm Randomized Control Trial and Meta-Analysis : ORCID - M Trial. PROSPERO 2021	ENT

## PUBLICATIONS

1. Dantis K , Gupta AK , Kashyap NK , Kashyap Y , Ranganath TG, Pati SK et al. (2021) Pulmonary sclerosing pneumocytoma masquerading adenocarcinoma with co-existing BRAF V600E and PTEN mutation. Cancer Treat Res Commun, Volume 2021; 28:100429.
2. **Ravina M**, Baruah TD, Lukose T, Ganga RT, Moideen A. (2021) Incidental lung findings in a COVID-19 patient on 18F-FDG PET/CT done for preoperative evaluation of Marjolin's ulcer-first report from Chhattisgarh. World J Nucl Med. 20(3):319-21.
3. Joshi P, Nayak S, Ravina M, Keche A, Rathore V. (2021) Membranoproliferative glomerulonephritis: A rare presentation of occult filariasis. Trop Doct. 51(4):585-87.
4. **Ravina M**, Bansal H, Lukose T, Mishra AK, Moideen A. (2021) Incidentally diagnosed Esophago-pulmonary fistula on 18-F- FDG PET/CT in a case of carcinoma esophagus- A life threatening emergency. Clin Nucl Med. 46(6):515-16.
5. Bansal H, **Ravina M**, Nanda S, Lukose T, Krishna S. (2021) Diffuse White Adipose Tissue 18F-FDG Uptake-An Unusual Finding on 18F-FDG PET/CT. Clin Nucl Med. 46(10): e513-14.
6. Bansal H, **Ravina M**, Chandrakar PK, Lukose T, Krishna S. (2022) Orbital Plasmablastic Lymphoma: A Rare Variant of Diffuse Large B-Cell Lymphoma Staged and Followed Up by 18F-FDG PET/CT. Clin Nucl Med. 47(1):e37-e38.
7. Rao, S., Gupta, S., Burman, S., **Ravina M** et al. (2021) Transcranial Orbital Reconstruction Using Patient-Specific Implant Prosthesis in Craniofacial Fibrous Dysplasia. J. Maxillofac. Oral Surg. Oct 2021.
8. Lukose T, Sajal De, Ganga RT, **Ravina M** et al. (2021) Lung perfusion SPECT/CT imaging in post COVID-19 pneumonia: the spectrum of imaging findings; Journal of Nuclear Medicine 62 (supplement 1) 2021.
9. Ganga RT, **Ravina M**, Sahu D, Gupta RK, Pati SK. (2022)18F-Labeled Fluoro-2-Deoxyglucose Positron Emission Tomography and Computed Tomography in a Large Pulmonary Sclerosing Pneumocytoma with Contralateral Lung Metastasis. Indian J Nucl Med. 37(1):103-4.

## PATIENT CARE

	SPECT-CT	PET-CT	THERAPIES	PET GUIDED BIOPSY
Total	1203	2010	33	30

## AWARDS, HONOURS AND SIGNIFICANT EVENTS VISITING SCIENTIST(S)

Dr. Mudalsha Ravina is a member of Scientific advisory committee MEDRECON 2022 (21st annual national conference of medical records), executive committee member, Society of Nuclear Medicine, India, scientific committee of 13th Biennial National cardiological society of India conference, executive committee member of Nuclear Cardiological society of India, editorial board member of Indian Journal of Nuclear Medicine and member of Indian college of Nuclear Medicine

# Department of Neurosurgery

## Associate Professor and Incharge

Dr. Anil Kumar Sharma

## Assistant Professors

Dr. Gandhoke Charandeep Singh

Dr. Ashish Sharma (From 27.07.2021)

Dr. Shailendra D. Anjankar (From 11.08.2021)

Dr. Hardik Lalit Siroya (From 15.09.2021)

## HIGHLIGHTS

The Department of Neurosurgery continued to scale new heights in patient care, research and training. The department is a tertiary care center and is working towards establishing an international reputation for both clinical and academic excellence.

The department of Neurosurgery is able to cater to almost all neurosurgical diseases affecting the cranium, spine and peripheral nervous system. Neurosurgery department works in an interdisciplinary environment that brings together neurologists, ENT – Head and Neck surgeons, radiologists, radiation oncologists, medical oncologist, and a dedicated neuro-anesthesia team. The Neurosurgery department treat a full range of neurosurgical disorders in the areas of:

Cerebrovascular - aneurysms and arteriovenous malformations (AVMs), Cavernomas and stroke, Skull base surgeries, Pituitary tumours and complex endoscopic Skull base surgery, Neuro-

oncology, Stereotactic Biopsy and navigation guided surgeries, Awake brain surgeries, Spinal tumours and degenerative diseases, Functional surgeries like Drezotomy and microvascular decompressions, hemifacial spasm, General neurosurgery, Trigeminal neuralgia and nerve compression syndromes, Peripheral Nerve Surgeries, Minimally invasive surgery for brain and spinal disorders, Complex Craniovertebral Junction surgeries, Cranial and spinal trauma surgeries,

## EDUCATION

Department faculty involved in the teaching of postgraduate students of other departments as co-supervisor of their Thesis.

All faculties are actively involved in clinical teaching to M.Ch. Neurosurgery trainees and post graduate students posted to Neurosurgery Department.

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Anil Kumar Sharma

S. No.	Title	CME/Conference	Date	Organised By
1.	Extended Endonasal approach for ACom Aneurysm Clipping: A Cadaveric study for Technical Feasibility (Invited Faculty)	NEUROENDOCON, 7th Annual Meeting of Neuroendoscopy Society – India	02-04.04.2021	Neuroendoscopy Society of India Hyderabad (Virtual)
2.	Orbit and Orbital lesions: A neurosurgical Perspective	CME	18.9.2021	CAN



S. No.	Title	CME/Conference	Date	Organised By
3.	Microsurgical clipping of Basilar Apex Aneurysm, NEUROVASCON 2021 (21st Annual Conference of CerebroVascular Society of India), PGI, Chandigarh	NEUROVASCON 2021 (21 <sup>st</sup> Annual Conference of CerebroVascular Society of India)	24 -26.09.2021	PGIMER, Chandigarh
4.	The role of Intra-operative Indocyanine Green Video-angiography in Cerebrovascular Surgery: Techniques and Practical Tips	NEUROVASCON 2021 (21st Annual Conference of CerebroVascular Society of India)	24 -26.09.2021	PGIMER, Chandigarh
5.	Endoscopic Endonasal approach for resection of Suprasellar Epidermoid cyst (Invited Faculty)	SKULLBASECON (Annual conference of skull base society of India)	22.10.2021	AIIMS, Jodhpur
6.	Expanding Horizons of Endoscopic Skull Base Surgeries: Our Initial experience at an emerging center	NSICON (69 <sup>th</sup> Annual Conference of Neurological Society of India)	10-12.12.2021	Neurological Society of India

### Completed

S. No.	Project	Principal Investigator	Duration (Years)	Start Year-End Year
1.	Rhino-Cerebral Mucormycosis (RCM): To Study the Clinical Spectrum and Outcome of 61 cases of RCM managed at a tertiary care centre in India	Dr. Anil Kumar Sharma	6 months	2021

### Departmental Projects – Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations

S. No.	Project
1.	Effect of Neurocognitive Function in pre-operative and post operative cases of Brain Tumor
2.	Clinical Spectrum and Quality of Life in Vestibular Schwannoma patients

### Collaborative Projects

S. No.	Project	Collaborating Department/ Institution
1.	An epidemiology study of traumatic head injury and spinal cord injury	AIIMS, Delhi

### PUBLICATIONS.

- Chaturvedi J, Kumar N, Shakya J, **Sharma AK.** Cervical osteoma in hereditary multiple exostoses. *J PediatrNeurosci* 2021;16:240-6
- Chaturvedi, J., Mudgal, S. K., Venkataram, T., Gupta, P., Goyal, N., Jain, G., **Sharma, A. K.**, Sharma, S. K., & Bendok, B. R. (2021). Coma recovery scale: Key clinical tool ignored enough in disorders of consciousness. *Surgical neurology international*, 12, 93. [https://doi.org/10.25259/SNI\\_935\\_2020](https://doi.org/10.25259/SNI_935_2020)
- Singh, P. R., Sharma, R. K., Chaturvedi, J., Nayak, N., & **Sharma, A. K.** Surgical Outcome of Large Solid Posterior Fossa Hemangioblastoma without Preoperative Embolization. *Journal of*

- neurological surgery. Part A, Central European neurosurgery.2021;00:1–7. DOI <https://doi.org/10.1055/s-0041-1728766>. ISSN 2193-6315.
4. Mehta, Rupa, Nitin M. Nagarkar, Atul Jindal, Karthik Nagaraja Rao, S. B. Nidhin, Ripu Daman Arora, **Anil Sharma** et al. “Multidisciplinary Management of COVID-Associated Mucormycosis Syndemic in India.” *The Indian journal of surgery*: 1-9., <https://doi.org/10.1007/s12262-021-03134-0>
  5. Nayak N, Singh PR, Sharma RK, Gupta SK, **Gandhoke CS, Sharma AK**. Impact of COVID-19 Pandemic during the lockdown on the Traumatic Brain Injury- An Institutional Experience. In *Indian Journal of Neurotrauma*
  6. **Sharma AK, Gandhoke CS**, Syal SK. Spontaneous regression of herniated cervical disc; A case report and literature review. *Surg Neurol Int*. 2021;12:141.
  7. **Sharma AK, Gandhoke CS**, Misra S, Ravi A, Gupta RK, Gupta SK. Ectopic intracanal orbital meningioma – A rare case report. *Surg Neurol Int* 2021;12:305.
  8. Jaleel MA, Shukla AS, Reddy RH, Anant G, **Anjankar SD** (2021). Correlation of D-dimer and progressive haemorrhagic injury: An institutional based observation study from Hyderabad. *International Journal of Health and Clinical Research*, 4(22), 251–253.
  9. Priyadarshi Dikshit, **Ashish Sharma**, Anant Mehrotra, Pavan K Verma, Kuntal Kanti Das & Awadhesh Kumar Jaiswal (2021) “Extra-cranial proximal pica aneurysm – a rare and surreptitious cause of posterior fossa sah: case report and review of literature”, *British Journal of Neurosurgery*, DOI: 10.1080/02688697.2021.1970112
  10. Gupta R, Siroya HL, Bhat DI, Shukla DP, Pruthi N, Devi BI (2022) Vertebral artery dissection in acute cervical spine trauma. *J Craniovertebr Junction Spine* 13(1):27–37
  11. Siroya HL, Bhagavatula ID, Bhat DI, Sadashiva N (2021) Intracranial high-grade glioma with malignant progression of spinal intramedullary metastasis: an atypical presentation with review of literature. *Br J Neurosurg* 1–7
  12. Siroya HL, Madhugiri VS, Shukla DP, Uppar AM, Bhagavatula ID (2021) Chaotic lipoma with proximal syrinx - a (not so) rare variant - review of the literature, possible embryology and management. *Br J Neurosurg* 1–9
  13. Siroya HL, Devi BI, Sachin Jose Pulickal, Bhat DI (2022) A Rare Case Series of Cerebral Venous Thrombosis and Stroke in Young Male COVID-19 Positive Patients without Significant Comorbidities and Importance of Various Laboratory Investigations. *Open Access Library Journal*, 9: e8343. <https://doi.org/10.4236/oalib.1108343>

## Dr. Ashish Sharma

### E-POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Dr. Ashish Sharma	Co-occurrence of meningioma in case of aneurysmal subarachnoid haemorrhage: a fact or fluke!	21 <sup>st</sup> Annual Conference of Cerebrovascular Society of India (NEUROVASCON 2021)	24-26.09.2021	Department of Neurosurgery PGIMER, Chandigarh
2.	Dr. Ashish Sharma	Traumatic extracranial giant pseudoaneurysm of common carotid artery: Surgical management and outcome	69 <sup>th</sup> Annual conference of the Neurological Society of India (NSICON 2021)	10-12.12.2021	Neurological Society of India

## ORAL PAPERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Dr. Ashish Sharma, Dr. Sanjay Behari	An approach to cranio-facial fibrous dysplasia for correction of cosmesis and visual loss - a cursed reality out of the haze	69 <sup>th</sup> Annual conference of the Neurological Society of India (NSICON 2021)	10-12.12.2021	Neurological Society of India
2.	Dr. Ashish Sharma, Dr. Kamlesh Bhisora	Traumatic extracranial giant pseudoaneurysm of common carotid artery: Surgical management and outcome	21 <sup>st</sup> Annual Conference of Cerebrovascular Society of India (NEUROVASCON 2021)	24-26.09.2021	Department of Neurosurgery PGIMER, Chandigarh

## PATIENT CARE

	OPD	IPD	Major OT	Minor OT
Total	9620	804	602	6

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Dr. Anil Kumar Sharma

Dr. Anil Kumar Sharma is serving as Assistant Editor- Indian Journal of Neurotrauma (IJNT), Official Journal of Neurotrauma Society of India (NTSI). He is also serving as Review Editor for Neurosurgery section in Frontiers in Surgery Journal. Expert for inspection of M.Ch. neurosurgery course at DKS-PGI, Raipur

# Department of Nephrology

## Assistant Professor and Faculty In-charge

Dr. Vinay Rathore

## Assistant Professor

Dr. Saurabh Nayak (Till 28.08.2021)

## HIGHLIGHTS

The department provides various services, including kidney Biopsy, Hemodialysis, Peritoneal dialysis, CAPD, Automated Peritoneal dialysis, Plasmapheresis, Hemoperfusion, CRRT, SLED, Isolated ultrafiltration and daycare facilities for Immunosuppression. The department continued its support to the institute's COVID response towards the second and the third wave of COVID-19.

Department started three new clinics:

1. **Renal Transplant Follow-up clinic:** It was inaugurated by Prof (Dr.) Nitin M. Nagarkar, Director on National Organ donation day. It provides care to more than 60 patients of Kidney transplant recipients and their donors.
2. **Renal Supportive Clinic:** It was inaugurated by Prof (Dr.) Nitin M Nagarkar on the occasion of World Kidney Day in collaboration with the Division of Palliative Medicine, Department of Oncology. The clinic is the first of its kind in a Government Hospital in India and provides multidisciplinary Palliative and supportive care to patients suffering from Chronic Kidney Disease.
3. **Telemedicine clinic for Hemodialysis Patients:** It was inaugurated by Prof (Dr.) Nitin .M. Nagarkar and Dr. Ekta Khandelwal, Additional Professor of Physiology and In-charge of Telemedicine. It provides teleconsultation to patients undergoing hemodialysis in eight District Hospitals under Pradhan Mantri National Dialysis Program (Jeevandhara)
4. The department organized Walkathon with the theme of "Aangdan Mahadaan, Organ Donation

pledge, and poster competition on the occasion of National Organ Donation day on the 27th of November 2021 in collaboration with the Department of Urology and School of Public Health AIIMS Raipur (C.G.).

5. The department organized the Orange lighting of the medical College building, a Poster Competition and a visit to Sports events for Kidney Patients and a visit to Peritoneal and Hemodialysis unit for Health Care Workers on the occasion of World Kidney Day on the 9<sup>th</sup> and 10<sup>th</sup> of March 2022 in collaboration with School of Public Health.

The Department supported State Government in coping with Kidney Diseases cases in Supebeda. The department has conducted two camps with the help of NHM, Chhattisgarh. Department also provides Peritoneal Dialysis services to three patients from Supebeda with the support of NHM, Chhattisgarh. The department has been providing support and consultation for starting the Deceased Donor Transplant Program in Chhattisgarh, setting SOTTO and developing guidelines for organ allocation in Chhattisgarh. The department of Nephrology is taking the lead in starting renal transplants at AIIMS Raipur. The civil work on the Renal transplant ward and OPD has been started.

## EDUCATION

Four D.M. students are pursuing D.M. Nephrology at AIIMS Raipur, Regular classes and training for Dialysis Technicians and Nursing staff, Interdisciplinary meet with various departments like Urology, Pathology, Obstetrics and Gynecology and Pediatrics

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL& INTERNATIONAL CONFERENCES

S. No.	Title	CME/Conference	Date	Organized By
1.	Acute Kidney Injury	National level CME on the occasion of World Kidney Day -2022	10.03.2022	Department of Nephrology and School of Public Health, AIIMS Raipur
2.	National Organ Donation Day -2021	State level CME on the Occasion of National Organ Donation Day	27.11.2021	Department of Nephrology & Urology& School of Public Health, AIIMS Raipur
3	Public Awareness Program	World Kidney Day	10.03.2022	Department of Nephrology and School of Public Health, AIIMS Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

Dr. Vinay Rathore

S. No.	Title	CME/Conference	Date	Organized by
1.	C3 Glomerulopathy	National CME on Paediatric Nephrology on the Occasion of World Kidney Day	13.03.2022	Division of Nephrology, Department of Pediatrics PGIMER, Chandigarh,
2.	Diabetic Vs Non-Diabetic Kidney Disease	ENDOMED, World Diabetes Day Celebration2021	13.11.2021	AIIMS Raipur
3.	Multiple Myeloma: Current practices and beyond	National level CME on Bone Marrow Transplant Update	18.09.2021	Balco Medical Center, Naya Raipur
4.	Medical Management of CAM	Multidisciplinary Management of Mucormycosis: Hybrid CME	28.08.2021	Department of ENT, Head & Neck Surgery, AIIMS Raipur
5.	Kidney diseases in COVID 19	Clinical Excellence Programme: Kidney diseases in COVID 19	15.06.2021	AIIMS Raipur MoHFW, Government of Chhattisgarh

## RESEARCH

### Funded Projects

On-going:

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start year-End Year	Total Funds Sanctioned (Rs.)
1.	A Clinical and Epidemiological Profile of Patients with Chronic Kidney Disease of Unknown Aetiology Attending AIIMS, Raipur, Chhattisgarh	Dr. Vinay Rathore	AIIMS, Raipur	One year	2019-2021	4 lakhs
2.	Treatment of a cardiovascular disease with low dose Rivaroxaban in Advanced Chronic Kidney Disease (TRACK)	Dr. Vinay Rathore	GIGH	5	2021-2025	8 Lakhs

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start year-End Year	Total Funds Sanctioned (Rs.)
3.	Allopurinol for CVD in CKD (AvoiD-CKD): A double-blind, randomized controlled trial	Dr. Vinay Rathore	PGIMER, Chandigarh, (India Alliance, DBT, Government of India/Welcome Trust, U.K.)	3	2021-24	2 Lakhs
4.	An Investigator-Initiated, International Multi-centre, MultiArm, Multi-Stage Randomised Double-Blind Placebo-Controlled Trial of Angiotensin Receptor Blocker (ARB) & Chemokine Receptor Type 2 (CCR2) Antagonist for the treatment of COVID-19.	Dr. Vinay Rathore	George Institute of Global Health (GIGH)-India	1	2021-22	2 Lakhs
5.	Prophylaxis for patients at risk of COVID-19 infection (PROTECT-V	Dr. Vinay Rathore	George Institute of Global Health (GIGH)-India	1	2021-22	2 Lakhs

#### Completed Projects:

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start year-End Year	Total Funds Sanctioned (Rs.)
1.	A Phase 3, Multicenter, Open-label, Randomized, Active-controlled Study to Evaluate the Efficacy and Safety of Desidustat Tablet Versus Epoetin Alfa Injection for the Treatment of Anemia in Patients with Chronic Kidney Disease (CKD) on Dialysis. (DREAM-D).	Dr. Vinay Rathore	Cadila Healthcare Ltd. Zydus Tower	One year	2020-2021	Rs 1 Lakhs
2.	Controlled evaluation of Angiotensin Receptor Blockers for COVID-19 respiratory disease (CLARITY)	Dr. Vinay Rathore	George Institute of Global Health	One year	2020-2021	Rs 9 lakhs

#### Departmental Projects non-funded (including thesis/dissertations)

#### On-going

Sr. No.	Title
1.	Study of Urine Concentration Defect in Residents of Endemic Area of CKUD Visiting AIIMS Raipur; A Pilot Study
2.	Immunogenicity and effectiveness of COVID 19 vaccines in patients with chronic kidney disease: a pilot study.
3.	An assessment of nutritional status in chronic kidney disease patients of unknown origin by Bioimpedance Spectroscopy.
4.	The assessment of Quality of Life and Caregiver burden among persons undergoing and followed up for Dialysis in the Department of Nephrology at AIIMS Raipur.

**Completed**

Sr. No.	Title
1.	An assessment of the Out of pocket expenditures in accessing dialysis services among chronic kidney disease patients in a public sector tertiary care hospital of Central India.
2.	Characteristics and Risk Factors for Chronic Kidney Disease in Patients with Hansen disease.

**Collaborative Projects****On-going**

Sr. No.	Title	Collaborating Department/ Institution
1.	Prevalence of left ventricular systolic dysfunction measured by Global longitudinal strain echocardiography in chronic kidney disease patients with preserved left ventricular ejection fraction and its correlation to renal biochemical parameters.	Cardiology
2.	Early versus conventional initiation of RRT in children with Acute kidney Injury: A Randomized controlled trial	Pediatrics
3.	Evaluation of dried blood spot (DBS) for diagnostic feasibility in the detection of anti-HCV antibody, HCV RNA quantitation, and HCV genotyping.	Microbiology
4.	Utility of surveillance cultures and infection control bundle compliance rates to predict catheter colonization and CLABSI among patients undergoing acute hemodialysis through non-tunnelled catheter	Microbiology
5.	Comparison of various serological assays and RNA POC (point of care) tests for the laboratory diagnosis of Hepatitis C Virus infection among patients on hemodialysis and venereal disease patients	Microbiology
6.	Evaluation of Changes in ocular Parameters in Patients undergoing Hemodialysis	Ophthalmology
7.	Study: "A cross-sectional study of dermatological manifestations in chronic kidney disease patients in a tertiary care institute of Central India"	Dermatology
8.	Correlation of Th17 cells and cytokines (IL-17 and IL 10) with disease activity index in SLE	Biochemistry
9.	Clinical and laboratory profile of patients with lupus nephritis – study from central India	General Medicine
10.	Assessing protein energy wasting (PEW) in idiopathic adult onset nephrotic syndrome using bio-impedence spectroscopy (BIS)	General Medicine

**Completed**

Sr. No.	Title of thesis/dissertation/Project	Collaborating Department/Institution
1.	Occult Hepatitis-B Infection among chronic kidney disease patients in a tertiary health care center: A preliminary study	Microbiology

**PUBLICATIONS****Dr. Vinay Rathore**

- Hockham C, Kotwal S, Wilcox A, Bassi A, McGree J, Pollock C, Burrell LM, Bathla N, Kunigari M,

**Rathore V**, John M, Lin E, Jenkins C, Ritchie A, McLachlan A, Snelling T, Jones M, Jha V, Jardine M; CLARITY Investigators. Protocol for the Controlled evaluation of Angiotensin Receptor blockers for COVID-19 respiratory disease

- (CLARITY): a randomised controlled trial. *Trials*. 2021 Aug 28;22(1):573.
- Joshi P, Nayak S, Ravina M, Keche A, **Rathore V**. Membranoproliferative glomerulonephritis: A rare presentation of occult filariasis. *Trop Doct*. 2021 Oct;51(4):585-587
  - Nayak S, **Rathore V**, Bharati J, Sahu K.K. Extending the ambit of SGLT2 inhibitors beyond diabetes: a review of clinical and preclinical studies on non-diabetic kidney disease. *Expert Rev Clin Pharmacol*. 2021 Dec;14(12):1513-1526
  - Dantis K, **Rathore V**, Kashyap NK, Gupta N, De S, Singha SK. SARS-CoV-2 Sequel: Pulmonary Mucormycosis with a Mycotic Aneurysm in a Transplant Recipient. *Tuberc Respir Dis (Seoul)*. 2021 Oct;84(4):335-337
  - John O, Gummudi B, Jha A, Gopalakrishnan N, Kalra OP, Kaur P, Kher V, Kumar V, Machiraju RS, Osborne N, Palo SK, Parameswaran S, Pati S, Prasad N, **Rathore V**, Rajapurkar MM, Sahay M, Tatapudi RR, Thakur JS, Venugopal V, Jha V. Chronic Kidney Disease of Unknown Etiology in India: What Do We Know and Where We Need to Go. *Kidney Int Rep*. 2021 Aug 9;6(11):2743-2751
  - Singh A, Choudhary R, Chhabra N, Ganguly S, **Rathore V**. Severe Pancytopenia Following Single Dose Methotrexate In Psoriasis: A Rare And Potentially Lethal Manifestation. *Curr Drug Saf*. 2021;16(1):110-113

## PATIENT CARE

OPD	IPD	Renal Biopsy	Acute Peritoneal Dialysis	CAPD	Hemodialysis	CRRT	Plasmapheresis	Permacaths insertion	AVF Creation
8390	1152	160	15	23	4072	13	74	236	8

## VISITING SCIENTIST

### Vivekanand Jha | MD DM FRCP FAMS

- Executive Director, George Institute India
- Chair of Global Kidney Health, Faculty of Medicine, Imperial College London
- Conjoint Professor of Medicine, University of New South Wales, Sydney
- President, International Society of Nephrology



# Department of Obstetrics & Gynecology

## Professor and HoD

Dr. Sarita Agrawal

## Additional Professors

Dr. Nilaj Bagde

Dr. Pushpawati

## Associate Professors

Dr. Vinita Singh

Dr. Chandrashekhar Shrivastava

## Assistant Professor

Dr. Sarita Rajbhar

## HIGHLIGHTS

The still birth rate went high, acknowledging that the department organized a workshop to prevent the still birth and how to minimize the risk related to Mother and Child. To implement this at our very local ground the department organizes the training programs to the appointed Medical Officers at the primary Health Centers across the Raipur District. In this extended era of pandemic we still continue to serve the best facilities to covid-19 positive pregnant mothers, by providing them special isolation areas and time to time care to ensure their proper management.

Faculties and resident also worked in areas of community awareness programs for PCOS and Endometriosis. Apart from this many of the innovative research projects are ongoing in the department.

## EDUCATION

The department continues regular academic activity for undergraduates and postgraduates and order to impart continuous flow of knowledge to the students. The system of education is competency based and also guided on the simulator based training. The department is equipped with virtual interactive birthing simulator and also with Laparoscopy training Simulator.

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES

S. No.	Title	CME/Conference	Date	Organised By
1.	Breast and Cervical Cancer Screening Camp	Special Cancer Screening Camp	12.08.2021	Department of of Obstetrics and Gynaecology, AIIMS Raipur
2.	Fetal Hydrops Solving the Dilemma	CME	31.10.2021	Department of of Obstetrics and Gynaecology, AIIMS Raipur
3.	Advance full body interactive birthing simulator	Training Program for undergraduate and post graduate and nursing students	29.10.2021 to 31.10.2021	Department of of Obstetrics and Gynaecology, AIIMS Raipur
4.	Gynae-Endoscopy	State level Live surgical workshopin Hybrid mode	18.11.2021	Department of of Obstetrics and Gynaecology, AIIMS Raipur
5.	Preventing Still Birth	Webinar	27.11.2021	Department of of Obstetrics and Gynaecology, AIIMS Raipur

S. No.	Title	CME/Conference	Date	Organised By
6.	Key Practice Updates In Endometriosis	Hybrid CME	10.03.2022	Department of of Obstetrics and Gynaecology, AIIMS Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

Prof.(Dr.)Sarita Agrawal

S. No.	Title	CME/Conference	Date	Organised By
1.	Triage and Testing for Pregnant Women Presenting with Respiratory Symptomes	Webinar	May 2021	FOGSI ICOG
2.	Triage and Testing for Pregnant Women Presenting with Respiratory Symptomes	COVID-19 Educational series workshop	10.06.2021	National Health Mission
3.	Ensuring Quality Care to Pregnant women during COVID pandemic		16.06. 2021	AIIMS Raipur
4.	Fibroid case presentation	Conference East Zone Yuva FOGSI hybrid mode	17.06.2021	Siliguri OBGY Society
5.	Vitamin-D in peri and post Menopause	Webinar	07.07.2021	Nagpur OBGY Society
6.	Infection prevention & control practices	Laqshya capacity building webinar	09.07.2021	FOGSI- UNICEF partnership India
7.	Hiv- Contraception needs and choices	Live webinar on HIV & contraception	13.07. 2021	HIV Committee FOGSI INDIA
8.	SURGERY FOR DEEP INFILTRATING ENDOMETRIOSIS	Live webinar	27.07. 2021	Jhonson & Jhonsonpvt ltd
9.	Artificial Intelligence: A New Paradigm in Obstetrics and Gynecology	Conference on Artificial intelligence	July 2021	AIIMS Raipur
10.	Laparoscopy in infertility- is it a peek- a -boo or an entry to cure	CME cum Workshop	September 2021	Bhilai OBGY Society
11.	Artificial Intelligence: A New Paradigm in Obstetrics and Gynecology	State Conference	September 2021	AOGCG &Raipur OBGY Society
12.	Indian Scenario of female infertility: Evaluation Protocol	CME Genetics and Infertility	30.10.2021	Department of Anatomy All India Institute of Medical Sciences Raipur (C.G.)
13.	Malaria in Pregnancy	ISOPARB National Conference Webinar on Still Birth Prevention	13-14.11. 2021	Gorakhpur OBGY Society
14.	Vesicovaginal Fistula Vaginal Route of Repair- When & How?	3rd National Conference of Society of Vaginal Surgeons of India	13.11.2021	SOVSI, CG Chapter

S. No.	Title	CME/Conference	Date	Organised By
15.	Retro Peritoneal Anatomy in Relation to Endometriosis Surgery	Hybrid CME Key Practice Updates In Endometriosis	10.03.2022	Department of of Obstetrics and Gynaecology, AIIMS Raipur
16.	Dose amino Acide help in Improving Prenatal outcome and Combating Luteal phase Defect?, Exploring the unknown	CME	26.02.2022	Bhilai OBGY Society
17.	Importance of Medical Documentation	21st national medical record conference	11 to 12.03.2022	Dept. of MRD AIIMS Raipur
18.	Gendr Equity Today for a Sustainable Tomorrow	Hybrid CME	08.03.2022	College of Nursing AIIMS Raipur
19.	Recurrent Implantation Failure - Clinician's Perspective	National Conference	27.03.2022	CG Chapter ISAR
20.	Gestational Diabetes Melitus Practical Tips	CME	05.03.2022	Govt. Medical College Rajnandgaon

### Dr. Nilajkumar Badge

S. No.	Title	CME/Conference	Date	Organised By
1.	Recent Advances of Endometriosis	17th state conference	12.09.2021	Association of Obstetricians & Gynecologist of Chhattisgarh
2.	Complete Longitudinal Septum Vaginal Septum with Cervical & Uterine Septum	3rd National conference	14.11.2021	CG chapter SOVSI
3.	Diagnostic Approach to Endometriosis	State – Level CME Hybrid Mode	10.03.2022	Dept. Of OBGY AIIMS Raipur

### Dr. Vinita Singh

S. No.	Title	CME/Conference	Date	Organised By
1.	Case discussions in Adolescent health	WISDOM 21", Conference	20-22.08.22	Virtual International conference by FOGSI, AOFOG and SAFOG
2.	Safe Entry in Scarred abdomen	Endogyn 2022 KOLKATA	11-13.03.22	IAGE KOLKATA
3.	Prenatal screening	CME	27-28.03.2022	Shri Satya sainhospital, Naya Raipur
4.	Medico-legal issues in vaginal hysterectomy	3rd National conference	13- 14.11.2021	CG chapter SOVSI

### Dr. Chandrashekhar Shrivastava

S. No.	Title	CME/Conference	Date	Organised
1.	Vaginal vs abd /laparoscopic repair of vault prolapse: A DEBATE	3rd National Conference of Society of Vaginal Surgeons of India	13th November 2021	SOVSI, CG Chapter

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Dr. Neetu Kumari / Dr. Nilajkumar Bagde	Atypical Presentation of Endometriosis	17 <sup>th</sup> state conference Happy Gynecon 2021	11,12 & 18.09.2021	AOGCG
2.	Dr. Harshad Bagde/ Dr. Nilaj Bagde	Non puerperal Uterine Inversion Secondary to sub-mucosal Fibroid	17 <sup>th</sup> state conference Happy Gynecon 2021	11,12 & 18.09.2021	AOGCG
3.	Dr. Sangeeta /Dr. Pushpawati	serum and salivary uric acid estimation and it's correlation in preeclampsia.	17 <sup>th</sup> state conference Happy Gynecon 2021	11- 12.09.2021	AOGCG
4.	Dr. Sangeeta/Dr. Vinita Singh	laparoscopic assisted ovarian cyatrctomy -poster..	AICC-RCOG	01- 03.10.2021	RCOG
5.	Dr. Loukiya/ Dr. Sarita Rajbhar	Successful pregnancy outcome in a case of takayasu arteritis and recurrent pregnancy loss	FIGO WORLD CONGRESS	SEPT 2021	FIGO
6.	Dr. Loukiya/ Dr. Sarita Rajbhar	Successful pregnancy outcome in a case of takayasu arteritis and recurrent pregnancy loss	AICC RCOG	OCT 2021	AICC RCOG
7.	Dr. Loukiya/ Dr. Chandrashekhar	Diagnostic accuracy of neutrophil lymphocyte ratio in prediction of preeclampsia	FIGO WORLD CONGRESS Online	OCT 2021	FIGO Canada
8.	Dr. Loukiya/ Dr. Chandrashekhar	Diagnostic accuracy of neutrophil lymphocyte ratio in prediction of preeclampsia	Happy Gynecon	11- 12.09.2021	RaipurOBGY Society
9.	Dr. Vinita Singh	Successful management of early FGR	FETOPNISHAD	06.12.2022	Pune society of Fetal Medicine
10.	Dr. Vinita Singh	laparoscopic assisted ovarian cyatrctomy, Case series	IAGE	11- 13.03.2022	IAGE

## Research - Funded Projects

### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	Evaluation of Prevalence, Regional Phenotypic Variation, Co-Morbidities, Risk Factors and the Variations in Response to Different Therapeutic Modalities among Indian Women with Polycystic Ovary Syndrome (PCOS): A Multicenter Study across India	Dr. Sarita Agrawal	ICMR	5 Years	01-11-2017-31-10-2022	20,63,822/- Central Zone

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
2.	National Registry on COVID-19 Infection among Pregnant Women and their Neonates” ICMR Multi Centre Project	Dr. Sarita Agrawal	ICMR	4 Years	2020-24	AIIMS Site 500/- per eligible case for data entry
3.	Role of Geminin As A Tool For Augmenting Accurate Diagnosis Of Cervical Neoplasia	Dr. Nilajkumar Bagde	AIIMS Raipur	3	2019-2022	5,00,000
4.	Clinical Phenotypes and Genetic Regulation of Endometriosis in Indian Women (Extramural Funded Project for 5 Years with ICMR)	Dr. Nilajkumar Bagde	Wellcome Trust-DBT India Alliance	5	2019 - 2024	9,16,000/-
5.	Role of Estrogen receptors and Epithelial-to-Mesenchymal Transition in Unexplained Infertility:	Dr. Vinita Singh	AIIMS RAIPUR	2	2021-23	INTRAMURAL GRANT OF 500000/-.

## Departmental Projects (Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations)

### Ongoing

S. No.	Projects
1.	Prevalance and High Risk Factors of Persistent Hyperglycemia among Women with GDM- A Prospective Study
2.	Accuracy of Triple Test Versus Colposcopy for the Diagnosis Of Premalignant And Malignant Cervical Lesion.
3.	Serum Antinuclear Antibodies in Women with Polycystic Ovarian Syndrome(PCOS), A Hospital based Cross sectional Study.
4.	Comparison Of Contingent Screening Of Preeclampsia With Universal Screening Done At 11 To 13+6 Weeks Using Fmf Calculator

S. No.	Thesis
1.	Diagnostic accuracy of hysterosalpingography and hysteroscopy in evaluation of female infertility
2.	To compare the fetomaternal outcome of 150 mg versus 75 mg aspirin in patients with high risk of preeclampsia (PE); A Randomized controlled trial.)
3.	Reid colposcopic index vs swede score for cervical cancer screening . A comparative prospective study
4.	Topical Imiquimod treatment versus Large loop excision of transformation zone (LLETZ), an open label randomized controlled trial in newly diagnosed Cervical Intraepithelial neoplasia 2,3(CIN-2,3)
5.	Role of prophylactic Tranexamic Acid in reducing blood loss during Cesarean Section: a Double blinded Randomized Controlled Clinical Trial
6.	Stage based integrated management using Barcelona protocol versus conventional management of fetal growth restriction and perinatal outcome: A randomized controlled trial

**Completed**

S. No.	Project
1.	Detecting vertical transmission of coronavirus SARS-CoV-2 from infected pregnant women to fetus in utero
2.	Role of Hysteroscopy in Evaluation of Intra Uterine Structural Pathology: Prospective Observational Study at A Tertiary Care Centre.
3.	Comparative study of hematological and biochemical changes in pregnant and non-pregnant women with COVID-19 infection.
4.	The association of mean follicular diameter at the time of ovulation trigger and conception rate after intrauterine insemination”
5.	Correlation between non reassuring cardiotocography and abnormal umbilical cord blood arterial blood gas analysis
6.	Study of hematological indices as predictors of preeclampsia

S. No.	Thesis
1.	The Association of mean follicular diameter at the time of ovulation trigger and conception in women undergoing intrauterine insemination
2.	Role of hysteroscopy in Intra uterine structural pathology: prospective observational study at a tertiary care centre” in all The women coming to gopd with any gynecological problems and diagnosed with intrauterine Structural pathology diagnosed by either transvaginal sonography, hysteroscopy or Histopathology
3.	Comparison of diagnostic accuracy of the risk of malignancy index, Iota-simple rules and Iota adnex model in discriminating benign And malignant ovarian tumors
4.	Prenatal diagnosis of congenital anomalies – prevalence, Pattern and perinatal outcome.

**Collaborative Projects****Ongoing**

S. No.	Project	Collaborating Department/Institution
1.	Role of Patient Blood Management Checklist in Improvement of Patient Specific Objectives	Department of Transfusion Medicine and Blood Bank AIIMS Raipur
2.	Establishment of DMT Nidankendra at AIIMS Raipur 2. Screening of Pregnant Woman and New Born in Aspirational Rajnadaon	Department of Pediatrics AIIMS Raipur
3.	Medical Evaluation of Hymen in Correlation with Genital Infections and Physical Activities in Sexually Inactive Females	Dept. of Forensic Medicine AIIMS Raipur

**PUBLICATIONS**

- Sarita Agrawal**, Arpana Verma, Sarita Rajbhar, Pushpawati Thakur, LoukyaKodumuri, Swati Kumari, Meconium Peritonitis: In Utero Diagnosis of a Rare Clinical Entity and Postnatal Outcome Journal Title Obstetrics and Gynaecology Cases – Reviews, ISSN: 2469-5734 Volume 6 | Issue 5, Oct-20
- Suprava Patel<sup>1</sup>, Ritu Priya<sup>1</sup>, Phalguni Padhi<sup>2</sup>, Tripty Naik<sup>2</sup>, Jessy Abraham<sup>1</sup>, Rachita Nanda<sup>1</sup>, Eli Mohapatra<sup>1</sup>, and **Sarita Agrawal**, Prevalence of Congenital Hypothyroidism and G6PD Deficiency in Newborns in a Tertiary Care Hospital of Central India “SAGE Journals” Journal of Neonatology 1–5 © 2021 National Neonatology Forum Reprints and permissions: in.

- sagepub.com/journals-permissions-indiaDOI: 10.1177/0973217920987713 journals.sagepub.com/home/nnt, Mar-2
3. Sai Krishna Tikka, Sonia Parial, Amrit Patojoshi, Ashlesha Bagadia, Chandni Prakash, Deyashin Lahiri, Jyoti Jaiswal, Manju Puri, Prerna Kukreti, Rabindra Nath Behera, **Sarita Agrawal**, et al Anxiety among pregnant women during the COVID-19 pandemic in India- a multicentric study Asian Journal of Psychiatry, Manuscript Number: ASJP-D-21-01024R2 Article Type: VSI: COVID -19
  4. Rachita Nanda Prasanta Kumar Nayak Suprava Patel Eli Mohapatra **Sarita Agrawal**, First-Trimester Reference Intervals for Thyroid Function Testing among Women Screened at a Tertiary Care Hospital in India, Journal of laboratory Physicians, <https://www.researchgate.net/publication/356142414> DOI <https://doi.org/10.1055/s-0041-1736520>. ISSN 0974-2727.
  5. Pavan Bhargava Chandramohan\*, **Sarita Agrawal**, **Chandrashekhar Shrivastava**, **Sarita Rajbhar**, Prasanta Nayak, **Vinita Singh**, Pregnancy associated plasma protein A: an early predictor of fetal growth restriction International Journal of Reproduction, Contraception, Obstetrics and Gynecology, International Journal of Reproduction, Contraception, Obstetrics and Gynecology Int J Reprod Contracept Obstet Gynecol. 2021 Dec;10(12):4517-4521 [www.ijrcog.org](http://www.ijrcog.org) pISSN 2320-1770 | eISSN 2320-1789
  6. **Vinita Singh** Solanke Rashmi Sushil **Sarita Agrawal** Namdar Anupam Pradip, Sangeeta Pradhan,HELLP syndrome pregnancy complicated by covid-19 infection- a case report, international journal of scientific research, Volume - 11 | Issue - 02 | February - 2022 | PRINT ISSN No. 2277 - 8179 | DOI : 10.36106/ijsr
  7. **BAGDE N**, SHINDE S, SINGH V, SATARKAR R, YARANG H. Non Puerperal Uterine Inversion Secondary to Submucosal Fibroid: A Case Report. Journal of Clinical & Diagnostic Research. 2021 Jul 1;15(7)..
  8. **Bagde MN**, Bagde NK, Deshmukh P, Negi S, Thangaraju P. Prevalence and genotype distribution of human papilloma virus in cervical samples of young married women: a hospital based prospective cross-sectional study. International Journal of Reproduction, Contraception, Obstetrics and Gynecology. 2021 Nov 1;10(11):4113-9
  9. **Bagde MN**, **Bagde NK**, Hussain N, Thangaraju P. A review and case report of enigmatic superficial endometrial spread of cancer of the uterine cervix: Need for vigilance in the primary care setting. Journal of Family Medicine and Primary Care. 2021 Sep;10(9):3505.
  10. **Singh V**, Tamar N, Lone Z, Das E, Sahu R, Majumdar S. Association between serum 25-hydroxy vitamin D level and menstrual cycle length and regularity: A cross-sectional Observational study. Int J Reprod Biomed. 2021 Dec 13;19(11):979-986. doi:10.18502/ijrm.v19i11.9913. PMID: 34977455; PMCID: PMC8717082.
  11. **Singh V**, Doshi B, Rastogi A, et al. (2022) Caesarean Myomectomy: Safety and Feasibility of The Procedure. J Obst Gynecol Surg 3(1): pp. 4-6. doi: 10.52916/jogs224022
  12. Gajbhiye RK, Montgomery G, Pai MV, Phukan P, Shekhar S, Padte K, DasMahapatra P, John BM, Shembekar C, Bhurke AV, **Bagde N**. Protocol for a case-control study investigating the clinical phenotypes and genetic regulation of endometriosis in Indian women: the ECGRI study. BMJ open. 2021 Aug 1;11(8):e050844.
  13. Das E, **Singh V**, **Agrawal S**, Pati SK. Prediction of Preeclampsia Using First-Trimester Uterine Artery Doppler and Pregnancy-Associated Plasma Protein-A (PAPP-A): A Prospective Study in Chhattisgarh, India. Cureus. 2022 Feb 8;14(2):e22026. doi: 10.7759/cureus.22026. PMID: 35340517; PMCID: PMC8913542.
  14. Shanbhag V, **Bagde N**. Office hysteroscopy: a review. International Journal of Reproduction, Contraception, Obstetrics and Gynecology. 2022 Jan 1;11(1):287-92

15. Sinha MB, Patel S, **Bagde N**, Sinha HP, Joshi A. Observational study of Y chromosome microdeletion, EAA markers and non EAA markers in Chhattisgarh. *Indian J ObstetGynecol Res* 2021;8(3):310-313.
16. Nayak PK, Hussain N, Negi S, **AgrawalS, Bagde N**, Mitra S, **Singh V**. The immunohistochemical biomarker B-cell lymphoma-2 expression in malignant and premalignant lesions of the uterine cervix and its association with human papillomavirus infection.
17. Sinha MB, Dada R, Patel S, Joshi A, **Bagde N**, Sinha HP. Frequency of Deletion of AZF Region of the Y Chromosome in Chhattishgarh, India. *International Journal of Genetics and Genomics*. 2021 Jun 21;9(2):36.
18. **Dr. Vinita Singh**\*Dr. Aparajita Rastogi Dr. LoukyaKodumuri Vijayalakshmi Shanbhag**Dr. Chandrashekhara Shrivastava** Nutan Sinha "SCRUB TYPHYS MIMICKING ACUTE PYELONEPHRITIS IN PREGNANCY, A CASE REPORT" Volume - 11 | Issue - 12 | December - 2021 | PRINT ISSN No. 2249 - 555X | DOI : 10.36106/ijar(Indian journal of applied research).
19. **Vinita Singh**, Aparajita Rastogi , Chandrashekhara Shrivastava, Nagma Sheikh, Chetan K M, Atiya Raza. Successful management of early onset fetal growth restriction: A case report, *International Journal of Gynecology and Obstetrics Sciences* www.gynaecologyjournals.com Online ISSN: 2664-9012, ISSN: 2664-9004 Received: 08-10-2021, Accepted: 23-10-2021, Published 08-11-2021 Volume 3, Issue 1, 2021, Page No. 21-24 .
20. Pavan Bhargava, Sowmya D, Kavya M and **Chandrashekhara Shrivastava** "PRES" SING PROBLEM OF HYPERTENSION IN EARLYPREGNANCY: A CASE SERIES *International Journal of Medical Reviews and Case Reports* (2022) 6(6):20-22
21. Pavan Bhargava BChandramohan, Kavya M, **Chandrashekhara Shrivastava**"3 Unwanted pregnancies, unsupervised terminations, untoward adversities- Case series" Manuscript Number: IJMRCR-2022-02-059 accepted, *International Journal of Medical Reviews and Case Reports*.
22. Pavan Bhargava BChandramohan, Rajeshwari B K, Kavya M, **Chandrashekhara Shrivastava** "4 Drug Dilemma and Poison predicament in Pregnancy:A case seriesManuscript Number: IJMRCR-2022-01-044 accepted for publication in the *International Journal of Medical Reviews and Case Reports*.
23. PavanBhargavaBChandramohan,**Chandrashekhara Shrivastava**, Sarita Rajbhar the pancreas problem in pregnancy" *International Journal of Medical Reviews and Case Reports* (2022)6(6):23-26

### Abstracts Published in Journal(s):

#### Chapter(s) in Books

S. No.	Author(s)	Chapter Title	Editor	Book	Edition	City of Publication	Publisher	Year of Publication
1.	Dr. Sarita Agrawal	Prenatal Screening and Diagnosis of Congenital Disorders	Dr. Anoop Verma	PAI Text book of paediatrics	first	Delhi	JP brothers medical publishers	2022
2.	Dr. Sarita Agrawal	Problems with breast-feeding	Dr. Alpesh Gandhi	FOGSI Textbook for Postgraduates	first	Delhi	JP brothers medical publishers	2022
3.	Dr. Sarita Agrawal	Screening for Sexually Transmitted Infections in Pregnancy	Dr. Ruchika Garg	Medical disorders in pregnancy protocol & algorithms	first	Delhi	CBS Publishers & distributors	2022



## PATIENT CARE

	OPD	IPD	Major OT	Minor OT	Special Clinics	
					Endometriosis Clinic	PCOS Clinic
Total	18641	1464	926	5884	960	160

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Dr. Nilajkumar Badge

1. Convenor of State-level CME in Hybrid mode on 'Key practice updates on endometriosis at AIIMS Raipur on 10.03.2022.
2. Organized "Knowledge Enclave endovision 2021" Hybrid live gynecological operative workshop for laparoscopic & Hysteroscopic surgeries on date 18.11.2022 at AIIMS Raipur.
3. Delivered a speech about Endometriosis Diseases in OPD on the occasion of Endometriosis awareness month at the dept. of OBGY AIIMS Raipur on dated 13.03.2022.
4. Organized a live surgical workshop on 25.03.2022 at the Dept. of OBGY AIIMS Raipur.
5. Started Gyane PDCC endoscopy fellowship &

PDCC High risk of pregnancy fellowship.

6. In charge of Gyane PDCC endoscopy fellowship.

### Dr. Vinita Singh

1. FMF UK certified uterine artery Doppler sonologist., cervical length assessment & Doppler ultrasound, November 2021
2. Certified In Ultrasound in Pregnancy by FMF India And FOGSI, September 2021 "Blending Evidence and Experience into Practice."
3. Appointed as Secretary Indian Association of Gynecology Endoscopy -Chhattisgarh chapter.
4. Faculty development course implementing CBME based curriculum in obstetrics and Gynecology 27<sup>th</sup> November 2020- 1st May 2021.
5. Appointed as examiner of DNB / DrNB Examination of NBEMS.

# Department of Ophthalmology

## Professor and Head

Dr. Somen Misra

## Additional Professors

Dr. Neeta Misra

Dr. Lubna Khan

Dr. Ankur K. Shrivastava

## Associate Professor

Dr. Vijaya Sahu

## HIGHLIGHTS

The Department of Ophthalmology functions with a triple goal to provide comprehensive, high-quality, state-of-the-art eye care to all patients, structured training for undergraduates and postgraduates, and carry out clinical research. It is presently involved in patient care in outpatient services, inpatient services and ophthalmic surgeries. It comprises a dedicated team which caters to various types of patients with speciality services available for Glaucoma, Orbit and Oculoplasty, Strabismus, Medical Retina and Trauma cases.

The outpatient department functions six days a week, and speciality clinics are designated on specific days. A speciality clinic for Glaucoma and Retina has been started in the Department every Tuesday and Wednesday afternoon (2.30-4.30 pm), respectively. A dedicated team of residents and consultants is available round the clock to cater to emergencies. Department is also involved in screening Retinopathy of Prematurity (R.O.P.) in neonatal I.C.U. Presently, the O.P.D. is well equipped with three refraction units so that it can cater to a large number of patients for initial comprehensive eye examination. Modern equipments with cutting-edge technology such as slit lamp biomicroscope, specular microscope, fundus camera, Humphrey visual field, Spectral Domain Optical Coherence Tomography, Ultrasound A scan and B scan, IOL Master 700 help in providing high quality patient care.

The modular Ophthalmology Operation theatre has 2 O.T. tables with two high end operating microscopes and state-of-the-art equipments which help doctors in training and faculty to perform surgeries with precision

and ease. Among the surgeries performed, intraocular surgeries include phacoemulsification, small incision cataract surgery, trabeculectomy and paediatric cataract surgeries. The extraocular surgeries include strabismus, oculoplasty surgeries, enucleation, evisceration and orbital surgeries such as exenteration.

The Laser room in O.P.D. houses various types of lasers such as Nd YAG for iridotomies and capsulotomies and Green (double frequency YAG laser) for retinal photocoagulation for retinal vascular disorders including diabetic retinopathy.

The Eye Bank has been set up in a specific designated area and instruments like specular microscope, laminar air flow, cold cabinet, slit lamp biomicroscope as well as surgical instruments for keratoplasty have been procured. The appointment of eye bank technician is under process. The eye bank is soon to resume its services.

The outreach program and screening camps help to screen patients for potentially blinding ocular diseases like glaucoma. World Glaucoma Week was celebrated from 6<sup>th</sup> to 12<sup>th</sup> March 2022. Lack of awareness among the general public that glaucoma is a major cause of irreversible blindness made us reach out to the community. Screening of patients was carried out at Primary Health Centre (P.H.C.), Jheet, throughout the week. Patient awareness in the form of posters, video presentations, pamphlet distribution were carried out in addition to a Webinar on Glaucoma Awareness by the faculties of the Department on 11<sup>th</sup> March 2022. An intercollege glaucoma debate competition was also conducted for the Junior Residents from the Department and the residents of J.N.M. Medical College, Raipur.

## EDUCATION

The Department has 8 M.D. Ophthalmology postgraduate intake every year. There is routine P.G. teaching Program including Departmental Case Presentation, Journal Club and Seminars for better academic atmosphere among PG Junior Residents and Senior Residents. The Department is involved

in Clinical Teaching for 4<sup>th</sup>, 6<sup>th</sup> & 7<sup>th</sup> Semester MBBS students in the form of Clinics, Tutorials & Lectures as per schedule. To upgrade the practical skills amongst the undergraduates & post graduates, evening small group discussions are taken by Senior Residents daily. The Department also got approval for Post-Doctoral Certificate Courses (PDCC) in Medical Retina of one year duration this year.

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Prof. (Dr.) Somen Misra

S. No.	Title	C.M.E./Conference	Date	Organized by
1.	Epidemiology of Glaucoma	Webinar on Glaucoma Awareness	11-03-2021	AIIMS, Raipur

### Dr. Neeta Misra

S. No.	Title	C.M.E./Conference	Date	Organized by
1.	Eye Donation & Eye Bank status at AIIMS, Raipur	C.M.E. on Organ Donation	27-11-2021	Dept. of Nephrology & Urology, & School of Public Health, AIIMS, Raipur
2.	Hand Hygiene	HICC Training Activity	30-11-2021	HICC, AIIMS, Raipur
3.	Communication Skills	MBBS 1 <sup>st</sup> Professional Orientation Program	05-03-2022	Academic Section, AIIMS, Raipur
4.	Common Signs and Symptoms of Glaucoma	Webinar on Glaucoma Awareness	11-03-2022	AIIMS, Raipur

### Dr. Lubna Khan

S. No.	Title	C.M.E./Conference	Date	Organised by
1.	Surgical Management of Glaucoma	Webinar on Glaucoma Awareness	11.03.2022	AIIMS, Raipur

### Dr. Ankur K. Shrivastava

S. No.	Title	C.M.E./Conference	Date	Organised by
1.	Early diagnosis of Glaucoma and treatment	4 <sup>th</sup> Annual Conference of ACOIN, C.G.	06.03.2022	Association of Community Ophthalmologists of India
2.	Diagnosis of Glaucoma	Webinar on Glaucoma	11.03.2022	AIIMS, Raipur

### Dr. Vijaya Sahu

S. No.	Title	C.M.E.	Date	Organized by
1.	Multidisciplinary Management of Mucormycosis	Hybrid C.M.E.	28.08.2021	Department of E.N.T., Head & Neck Surgery, AIIMS, Raipur

S. No.	Title	C.M.E.	Date	Organized by
2.	Gonioscopy -the most underestimated tool, & Medical management of Glaucoma	Webinar On Glaucoma basics	04.09.2021	Sai baba eye hospital, Raipur
3.	Overview on setting up a Diabetic Retina Clinic	20 <sup>th</sup> Annual conference of Chhattisgarh state Ophthalmological society	19.12.2021	Chhattisgarh State Ophthalmological Society
4.	Medical management of Glaucoma	Webinar on Glaucoma awareness	11.03.2022	Department of Ophthalmology, AIIMS, Raipur
5.	Interesting case presentation on ocular tuberculosis	C.M.E. on World Tuberculosis week	24.03.2022	Department of Pulmonary Medicine, AIIMS, Raipur

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Presentation	Conference	Date	Organised by
1.	Dr. Ankur K Shrivastava	Eyelid positional anomalies	Annual conference of Association of Community Ophthalmologists of India	22.08.2021	Association of Community Ophthalmologists of India
2.	Dr. Aseem Kumar, <b>Dr. Somen Misra,</b> Dr. Vijaya Sahu	Evaluation of Changes in Ocular Parameters in Patients Undergoing Hemodialysis (Free paper)	20 <sup>th</sup> Annual conference of Chhattisgarh state Ophthalmological society	18.12.2021	Chhattisgarh State Ophthalmological Society
3.	Dr. Marry Anto, <b>Dr. Neeta Misra</b>	Changing paradigms of mechanical ocular trauma during covid. (Free Paper)	20 <sup>th</sup> Annual conference of Chhattisgarh state Ophthalmological society	18.12.2021	Chhattisgarh State Ophthalmological Society
4.	Dr. Ashik R, <b>Dr. Lubna Khan</b>	Revision of intra ocular biometry using 3-D super formula for IOL power calculation (Free Paper)	20 <sup>th</sup> Annual conference of Chhattisgarh state Ophthalmological society	18.12.2021	Chhattisgarh State Ophthalmological Society
5.	Dr. Prithvi, <b>Dr. Vijaya Sahu</b>	Evaluation of effect of Retrobulbar Amphotericin B in curbing the progression of disease in COVID associated Rhino-orbito-cerebral Mucormycosis (Free Paper)	20 <sup>th</sup> Annual conference of Chhattisgarh state Ophthalmological society	18.12.2021	Chhattisgarh State Ophthalmological Society
6.	Dr. Bhanupriya, <b>Dr. Vijaya Sahu,</b> Dr. Phalguni Padhy	Retinopathy of Prematurity: 2-year retrospective observational study at AIIMS RAIPUR (Free Paper)	20 <sup>th</sup> Annual conference of Chhattisgarh state Ophthalmological society	18.12.2021	Chhattisgarh State Ophthalmological Society

S. No.	Authors	Presentation	Conference	Date	Organised by
7	Dr. Diksha Sethi, <b>Dr. Somen Misra,</b> <b>Dr. Vijaya Sahu</b>	Traumatic globe luxation managed with multidisciplinary approach to achieve optimal outcome: A Case Report (E- poster)	20 <sup>th</sup> Annual conference of Chhattisgarh state Ophthalmological society	18.12.2021	Chhattisgarh State Ophthalmological Society
8.	Dr. Aseem Kumar, Dr. Vijaya Sahu	Slit lamp imaging using smartphone in a low resource setting (E- poster)	20 <sup>th</sup> Annual conference of Chhattisgarh state Ophthalmological society	18.12.2021	Chhattisgarh State Ophthalmological Society
9.	Dr. Abrarul Haq, <b>Dr. Vijaya Sahu</b>	Ocular toxoplasmosis presented as neuroretinitis- A rare case presentation (E-poster)	20 <sup>th</sup> Annual conference of Chhattisgarh state Ophthalmological society	18.12.2021	Chhattisgarh State Ophthalmological Society

## RESEARCH

### Departmental Projects (including thesis/dissertations)

#### Ongoing

S. No.	Project
1.	Correlation of Ocular Manifestations & Leprosy with the various types of leprosy based on Ridley Jopling and WHO classification
2.	Evaluation of changes in ocular parameters in patients undergoing hemodialysis
3.	Influence of pupil dilation on ocular parameters and its impact on various intraocular lens power calculation formulae
4.	A cross sectional observational study of prevalence of dry eye among type I and type II Diabetic patients.
5.	Retinopathy of Prematurity: A prospective observational study of association of early postnatal weight gain with its severity
6.	Ocular manifestations of HIV/AIDS and correlation with CD4+ cell count among adult HIV/AIDS patients
7.	Evaluation of Retinal nerve fiber layer and ganglion cell complex in Type 1 and Type 2 Diabetes Mellitus patients- A comparative observational study
8.	Evaluating the effect of topical prostaglandin analogues on central corneal thickness in patients with primary open angle glaucoma- A prospective comparative study
9.	Visual prognostic value of retinal thickness in compressive lesions of afferent visual pathway
10.	Effect of various ocular parameters on intraocular pressure
11.	Neutrophil: Lymphocyte ratio and Platelet: Lymphocyte ratio in retinal vein occlusion-A comparative observational study
12.	OCT as a pre-operative screening tool in routine cataract surgery: How useful is it?
13.	Outcome of Amniotic Membrane Transplantation in various ocular surface disorders
14.	Evaluation of performance of newer generation intraocular lens power formulae: A study in Asian Indian population

**Completed**

S. No.	Project
1.	Factors affecting Final visual outcome in patients of mechanical ocular trauma at a tertiary health care center in Chhattisgarh
2.	Revision of ocular biometry using '3D'superformula' for intraocular implant power calculation

**Funded Projects****Ongoing funded**

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	Short term effect of a single intravitreal injection of a ranibizumab biosimilar – Razumab on Optical Coherence Tomography Biomarkers in Diabetic Macular Edema	Dr. Vijaya Sahu	AIIMS Raipur	1 year	Start year-2021	5 lakhs

**PUBLICATIONS**

- Thakur S, Parimal N, **Misra S**. Age related macular degeneration: A review of risk factors, clinical features, diagnosis and treatment. Indian Journal of Community Ophthalmology. 2021; 1:10-16.
- Thakur S, Parimal N, **Misra S**. Retinopathy of Prematurity- A review on risk factors, screening, treatment. Bihar Journal of Ophthalmology. 2021;46(1):31-36.
- Thakur S, Parimal N, **Misra S**. Central serous chorioretinopathy- A review on risk factors. Patna Journal of Ophthalmology. 2021;4(1):43-50.
- Parimal N, **Misra S**. A beginner's guide for understanding and care of an ophthalmic operating microscope. Bihar Journal of Ophthalmology. 2021;(2): 90-91.
- Parimal N, **Misra S**. Recurrent corneal erosion syndrome. Journal of Ophthalmological Society of West Bengal. 2021;1(2):21-27.
- Sharma AK, Gandhoke CS, **Misra S**, Ravi A, Gupta RK, Gupta SK. Ectopic intraconal orbital meningioma - A rare case report. Surg Neurol Int. 2021; 12:305.
- Sharma AK, Sharma R, **Misra S**, **Misra N**, Ashik R, Hussain N, et al. Pleomorphic Adenoma of the Orbital Ectopic Lacrimal Gland: An Extremely Rare Occurrence with Review of Literature. Neurol India. 2022;70(1):296-9.
- Wankhade AB, Patro P, **Misra N**, Das P. Successful culture of Acanthamoeba remains a key towards diagnosis of unusual clinical presentation of keratitis: A first case report from chhattisgarh. J Family Med Prim Care. 2021;10(10):3904-7.
- Shrivastava AK**, Nayak S, Mahobia A, Anto M, Pandey P. Accuracy of intraocular lens power calculation formulae in short eyes: A systematic review and metaanalysis. Indian J Ophthalmol. 2022;70(3):740-8.
- Shrivastava AK**, Nayak S. Comment on: Accuracy of the Barrett universal II formula integrated into a commercially available optical biometer when using a preloaded singlepiece intraocular lens. Indian J Ophthalmol. 2022;70(2):692.
- Shrivastava AK**, Nayak S. Comment on: Cataract surgery in eyes with associated coloboma: Predictors of outcome and safety of different surgical techniques. Indian J Ophthalmol. 2021;69(10):2889-90.

12. **Shrivastava AK**, Nayak S, Mahobia A, Anto M, Kacher R, Kumar A. Optimizing lens constants specifically for short eyes: Is it essential? Indian J Ophthalmol. 2021;69(9):2293-97.
13. Sen M, Honavar SG, Bansal R, Sengupta S, Rao R, **Shrivastava AK**, et al. Epidemiology, clinical profile, management, and outcome of COVID19 associated rhinoorbitalcerebral mucormycosis in 2826 patients in India – Collaborative OPALJO Study on Mucormycosis in COVID19 (COSMIC), Report 1. Indian J Ophthalmol. 2021;69(7):1670-92.
14. **Shrivastava AK**, Nayak S, Anto M. Comments on: Comparison of three newer generation freely available intraocular lens power calculation formulae across all axial lengths. Indian J Ophthalmol. 2021;69(7):1976.
15. **Sahu V**, Sahu C D, Pandey N, Bhutada B. High diagnostic and therapeutic value of “Digital subtraction angiography” in direct carotid cavernous fistulas –A Retrospective case series. Delhi J Ophthalmol. 2022; 32(3): 17-22.
16. **Sahu V**, Pathak M, Das P, Ravi A. Corynebacterium jeikeium as an Unusual Cause of Keratitis: A Case Report From a Tertiary Care Hospital in Chhattisgarh, India. Cureus. 2021;13(12):e20164.

## PATIENT CARE

### A. Facilities available in the Department –

- Regular screening of all Ophthalmic patients
- Refraction
- Applanation and Non-Contact Tonometry
- Ultrasonography (A scan and B scan)
- Optical Biometry
- YAG Capsulotomy and Iridotomy
- Optical Coherence Tomography
- Visual field examination by Humphrey’s Automated Perimetry
- Assessment of Central Corneal Thickness
- Medical retina services with Argon green LASER

- Specular microscopy for keratoplasty purposes
- Fundus Photography
- Fundus Fluorescein Angiography for diagnosing various retinal vascular disorder

### Speciality services for

- a. Glaucoma
- b. Oculoplasty
- c. Cornea
- d. Paediatric Cataract
- e. Strabismus
- f. Ocular Trauma
- g. R.O.P. Screening
- h. Medical Retina and Intravitreal injections

Total O.P.D.	Total I.P.D.	Major OT	Minor OT
28173	1044	1108	65

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Prof. (Dr.) Somen Misra

1. Invited as External examiner for M.S. Ophthalmological Examination at Al-Karim University, Katihar (Bihar) on 09-08-2021.
2. Invited as D.N.B. Practical examiner at KGMC, Lucknow on 16-08-2021.
3. Invited as External examiner for MBBS Final year part 1 at Raigarh Medical College, Raigarh (C.G.) between 13<sup>th</sup> -15<sup>th</sup> September 2021.
4. Evaluated D.N.B. Theory papers at National Board of Examination (N.B.E.), New Delhi between 4<sup>th</sup> to 7<sup>th</sup> October 2021.
5. Chaired session in National Hybrid C.M.E. on COVID 19: Human Resilience, Innovation & Hope organised by Department of Microbiology, AIIMS, Raipur on 23-10-2021.
6. Chaired two sessions in 28<sup>th</sup> National Ambicon 2021 organised by Department of Biochemistry, AIIMS, Raipur on 3-12-2021.
7. Reviewer of Indian Journal of Ophthalmology,

Middle East African Journal of Ophthalmology, Saudi Medical Journal and Journal of Clinical Ophthalmology and Research.

**Dr. Ankur K. Shrivastava**

1. Serving as Editors proceedings of Chhattisgarh State Ophthalmic Society.
2. Serving as Chairman Scientific Committee of Association of Community Ophthalmologists of India, C.G chapter.
3. Organising Secretary of 4<sup>th</sup> Annual conference of Association of Community Ophthalmologists of India, C.G chapter.
4. Free paper evaluator for Annual conference of All India Ophthalmic Society.

5. Scientific committee appreciation award for best paper in Orbit & oculoplasty at 20<sup>th</sup> Annual conference of Chhattisgarh State Ophthalmic Society.

**Dr. Vijaya Sahu**

1. Invited as External examiner for MBBS Final year part 1 at J. N. M. Medical college Raipur between 21<sup>st</sup>-25<sup>th</sup> Sept 2021.

Junior Residents - Dr. Aseem Kumar won the 1<sup>st</sup> Runner up and Dr. Shalvika Gupta won the 2<sup>nd</sup> Runner up in the debate conducted as part of glaucoma week celebration at AIIMS, Raipur. Dr. Shalvika Gupta won the first prize and Dr. Bhanupriya won the second prize in free paper competition organized by Association of Community Ophthalmologists of India on 6<sup>th</sup> March 2021.



Group photo of glaucoma debate organizing committee, participants with Chief guest at AIIMS, Raipur



Glaucoma screening at PHC, Jheet 6-03-2022 to 12-03-2022



# Department of Orthopaedics

## Professor and Head

Prof. (Dr.) Alok C. Agrawal

## Additional Professor

Dr. Bikram Keshari Kar

## Associate Professor

Dr. Harshal S. Sakale

## HIGHLIGHTS

The department of Orthopaedics provides quality health care, medical education, and research activities at graduate, post-graduate, and post-doctoral levels. M.Ch Joint Replacement & Reconstruction program started in July 2020 Session and has admissions from two batches till date. The department provides state-of-the-art facilities to patients who need a Total knee replacement, Total Hip replacement, Limb salvage and reconstructions for bone tumors, spinal fixations, Arthroscopic surgeries, complex trauma management, and pediatric Orthopaedics. A specialty clinic on pediatric deformity, specially clubfoot, is organized every Tuesday. The department has organized numerous academic activities such as CME on Artificial Intelligence on 04.07.2021, Course for OT Technicians and Saw Bone workshop

on 06.08.2021, CME on foot and ankle disorders on 21.08.2021 and Chhattisgarh Open Orthopaedic Quiz on 30.10.2021.

## EDUCATION

Lecture for MBBS Students – 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> year. Bedside clinics for MBBS Medical Students. Post-graduate classes in the form of Case presentations, Journal Reviews, and seminars. Post-doctoral classes (MCh. Joint Replacement & Reconstruction) in the form of Case presentations, Journal Reviews, and seminars. Logbook for M.S Orthopedic Post-graduate students. Logbook for MCh. Joint Replacement & Reconstruction Post-doctoral students. Currently, the department has two post-doctoral residents and fifteen postgraduate students.

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES

S. No.	CME/Conference	Date	Organized By
1.	CME on Artificial Intelligence in Healthcare	4.07.2021	AIIMS Raipur
2	Course for OT Technicians and Saw Bone workshop	06.08.2021	AIIMS Raipur
3	CME on Foot & Ankle Disorders	21.08.2021	AIIMS Raipur
4	ASSI-CME on Focus on degenerative Spine	16.08.2021	AIIMS Raipur
5	Chhattisgarh Open Orthopaedic Quiz	30.10.2021	AIIMS Raipur
6	Advanced Training on Ponseti Method of Clubfoot Management	09.12.2021	Cure India

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

Prof. (Dr.) Alok C. Agrawal

S. No.	Title	CME/Conference	Date	Organized By
1	Limitations to Artificial Intelligence in Health Care	CME on Artificial Intelligence in Healthcare	4.07.2021	AIIMS Raipur
2	OT care & Care of Power tools in Orthopaedic OT	Training program for OT Personnel	04.08.2021	AIIMS Raipur & Depuy
3	Organ donation & whole-body donation	Organ Donation Day-Online CME	13.08.2021	AIIMS Raipur
4	Ankle & Foot Disorders: AIIMS Experience	CME on Foot & Ankle Disorders	21.08.2021	AIIMS Raipur
5	Arthroplasty in Neck of Femur Fracture	JOACON 2021	28-29.08.2021	Jharkhand orthopedic association
6	Recent Trends in Osteosarcoma	JOACON 2021	28-29.08.2021	Jharkhand orthopedic association
7	Fracture-dislocation difficulty of management	10 <sup>th</sup> AO Trauma India National Conference	23-24.10.2021	AO Trauma
8	Forearm Malunion	10 <sup>th</sup> AO Trauma India National Conference	23-24.10.2021	AO Trauma
9	Management of Recurrence in GCT	NAMSCON-2021	26-28.11.21	National Academy of Medical Sciences.
10	Journey from death to life: Experiences in Management of Malignant Bone Tumour: Dr. M L Rathi Oration	IMA CGCON 2022	12-13.03.2021	IMA-CG

Dr. Bikram Keshari Kar

S. No.	Title	CME/Conference	Date	Organized By
1.	Radiological evaluation of foot & ankle	CME on Foot & Ankle Disorders	21.08.2021	AIIMS Raipur

Dr. Harshal S. Sakale

S. No.	Title	CME/Conference	Date	Organized By
1.	Usage of Accessory Anteromedial Portal for Anatomical Placement of Femoral Tunnel in Transportal Anterior Cruciate Ligament Reconstruction: A Prospective Study.	IOACON 2021	25.12.2021	Indian orthopaedic association
2.	CTEV	CME on Foot & Ankle Disorders	21.08.2021	AIIMS Raipur

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organized By
1.	Harshal Sakale	Role of PRP in OA Knee	IOACON 2021 GOA	21.12.21 – 25.12.21	Indian Orthopaedic Association
2.	Ankit Kumar Garg	Applied Anatomy of foot	CME on Foot & Ankle Disorders	21.08.2021	AIIMS Raipur
3.	Shilp Verma	Congenital Disorders of Foot	CME on Foot & Ankle Disorders	21.08.2021	AIIMS Raipur
4.	Vishal Victor Kujur	Common Foot Disorders in Adults	CME on Foot & Ankle Disorders	21.08.2021	AIIMS Raipur
5.	Anupam Inamdar, Dr. Alok C. Agrawal	Congenital Elbow Dislocation: A Rare Case Report	OOACON 22	12- 13.03.2021	Orissa Orthopaedic Association
6.	Ankit Kumar Garg, Dr. Alok C. Agrawal	Management of Bone tumors with ECRT: Our experience	OOACON 22	12- 13.03.2021	Orissa Orthopaedic Association
7.	Shubham Sharma, Dr. Bikram Keshari Kar	Poster: "Evaluation of functional outcomes after decompression alone vs. decompression with fusion surgery in Lumbar Spine Stenosis."	JOACON 2021	28- 29.08.2021	Jharkhand orthopedic association
8.	Debasish Sarkar, Dr. Alok C. Agrawal	Paper presentation - "correlation between limb length discrepancy and functional outcome following total hip arthroplasty."	JOACON 2021	28- 29.08.2021	Jharkhand orthopedic association
9.	Gautam Prasad Nirala, Dr. Alok C. Agrawal	Paper presentation "Comparison of the Functional Outcomes of Transverse Patella Fractures (AO Type 34-C1) Management by Tension Band Wiring Using Cannulated Cancellous Screws Versus Tension Band Wiring Using Kirschner Wires."	JOACON 2021	28- 29.08.2021	Jharkhand orthopedic association
10.	E. Pandiyarajan, Dr. Alok C. Agrawal	Poster: "Botulinum Toxin Type A Vs. Tendoachilles Tenotomy In The Management Of Idiopathic CTEV BY PONSETI Method" – first prize	JOACON 2021	28- 29.08.2021	Jharkhand orthopedic association
11.	Deepak Kumar Garg, Dr. Harshal S. Sakale	Poster: "A Comparison of Functional and Radiological Outcome of Intra Articular Fracture Distal End Radius Treated by Variable angle locking compression plate versus fixed angle locking compression plate – A randomized prospective study."	JOACON 2021	28- 29.08.2021	Jharkhand orthopedic association
12.	Santhosh Kumar Yadav, Dr. Bikram Keshari Kar	Poster: "Evaluation of the correlation between Serum Magnesium levels and the severity of knee osteoarthritis."	JOACON 2021	28- 29.08.2021	Jharkhand orthopedic association

S. No.	Authors	Title	Conference	Date	Organized By
13.	Shubham Sharma	Poster: "Efficacy of epidural steroid injections in the degenerative spine."	ASSI-CME on Focus on degenerative Spine	16.10.2021	AIIMS Raipur
14.	Debasish Sarkar, Dr. Alok C. Agrawal	Paper presentation - "correlation between limb length discrepancy and functional outcome following total hip arthroplasty."	CEZCON 2020	13-14.11.2021	CENTRAL ZONE IOA
15.	Gautam Prasad Nirala, Dr. Alok C. Agrawal	Paper presentation "Comparison of the Functional Outcomes of Transverse Patella Fractures (AO Type 34-C1) Management by Tension Band Wiring Using Cannulated Cancellous Screws Versus Tension Band Wiring Using Kirschner Wires."	CEZCON 2020	13-14.11.2021	CENTRAL ZONE IOA
16.	Debasish Sarkar, Dr. Alok C. Agrawal	Poster- "management of neglected posterior hip dislocation with total hip arthroplasty"- second prize	CEZCON 2020	13-14.11.2021	CENTRAL ZONE IOA
17.	Gautam Prasad Nirala, Dr. Alok C. Agrawal	Poster- " Poster presentation: management of malignant solid bone tumor by ECRT."	CEZCON 2020	13-14.11.2021	CENTRAL ZONE IOA
18.	Pandiyarajan, Dr. Alok C. Agrawal	Poster: "Botulinum Toxin Type A Vs. Tendoachilles Tenotomy In The Management Of Idiopathic CTEV BY PONSSETI Method"	IMA CGCON 2022	12-13.03.2021	IMA-CG
19.	Dikshant Saini, Dr. Alok C. Agrawal	Poster: "Ewing sarcoma of calcaneum – a rare case report."	IMA CGCON 2022	12-13.03.2021	IMA-CG

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	A role of PRP in OA Knee	Dr. Harshal Sakale	AIIMS Raipur	3yrs	03.2021-03.2023	1.5 lakhs

### Departmental Projects – Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations

#### Ongoing

S. No.	Project
1.	A Comparison of Functional and Radiological Outcome of Intra Articular Fracture Distal End Radius Treated by Variable angle locking compression plate versus fixed angle locking compression plate – A randomized prospective study

S. No.	Project
2.	A comparative study between botulinum toxin type A versus tendon Achilles tenotomy in the management of idiopathic clubfoot by Ponseti method.
3.	Evaluation of the correlation between Serum Magnesium levels and the severity of knee osteoarthritis.
4.	Correlation of dual-energy x-ray absorptiometry with markers of bone metabolism in femur fractures
5.	A clinical, demographic study of traumatic spinal injury patients presenting in a tertiary care center
6.	Comparison of inflammatory markers level in pre-operative and post-operative cases of diaphyseal femur fractures in the tertiary care center
7.	Comparison of functional outcome of all Inside versus transportal techniques of arthroscopic anterior cruciate ligament reconstruction - Randomised controlled trial
8.	Estimation of Serum Osteopontin levels in primary osteogenic sarcoma.
9.	Analysis of functional outcome following internal fixation of intraarticular distal femur fractures in a tertiary care center
10.	Comparison of radiological and functional outcome of metal-backed fixed bearing tibial base plate versus all polyethylene tibia in total knee arthroplasty

### Completed

S. No.	Project
1.	Management of early presenting fracture neck of femur in young adults: a comparative study between osteosynthesis with and without fibular graft.
2.	Evaluation of functional outcomes after decompression alone vs. decompression with fusion surgery in lumbar spinal stenosis.”
3.	A comparison of clinical-radiological outcomes of intertrochanteric fractures treated using a proximal femoral nail and proximal femoral nail anti-rotation
4.	Comparison of the Functional Outcomes of Transverse Patella Fractures (AO Type 34-C1) Management by Tension Band Wiring Using cannulated cancellous Screws Versus Tension Band Wiring Using Kirschner Wires.”
5.	Correlation between limb length discrepancy and functional outcome following total hip arthroplasty

### Collaborative Projects

#### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Impact of Selected Yoga posture on core muscle in degenerative disk disease without neurological deficit	Department of Anatomy, AIIMS Raipur
2.	Comparative study between dexmedetomidine and dexamethasone adjuvant to levobupivacaine in ultrasound guided supraclavicular brachial plexus block schedule for upper limb surgery	Department. Of Anesthesia, AIIMS Raipur
3.	Prevalence, Diagnosis and treatment of Non-Tuberculous Mycobacteria in India: A Multicentric Project	Department of Microbiology/ Orthopaedic/ Medicine, AIIMS Raipur
4.	Efficacy and safety of two treatment regimens of tranexamic acid in blood sparing effect in primary unilateral Total Hip Arthroplasties: A Randomized Control Trial	Department of Anesthesia

S. No.	Project	Collaborating Department/Institution
5.	Evaluation of diffusion weighted imaging and diffusion tensor imaging in spinal tuberculosis with 3 Tesla MRI	Department of Radio-Diagnosis
6.	Comparison of combined adductor canal block and IPACK block vs intraarticular Ropivacaine and morphine and genicular block for post-operative analgesia in Knee Arthroscopic procedures	Department of Anesthesia

## PUBLICATIONS

- Agrawal A C**, Verma S, **Kar B**, et al. (July 03, 2021) Mammoth Giant Cell Tumor of the First Metacarpal: A Case Report and Management Trends. *Cureus* 13(7): e16150. doi:10.7759/cureus.16150
- Sakale H**, **Agrawal A C**, Ojha M, et al. (August 11, 2021) Usage of Accessory Anteromedial Portal for Anatomical Placement of Femoral Tunnel in Transportal Anterior Cruciate Ligament Reconstruction: A Prospective Study. *Cureus* 13(8): e17095. doi:10.7759/cureus.17095
- Kar B K**, Kumar Yadav S, Venishetty N, et al. (July 10, 2021) Internal Hemipelvectomy and Pelvic Reconstruction With Non-Vascularized Fibular Graft for Chondrosarcoma Ilium. *Cureus* 13(7): e16292. doi:10.7759/cureus.16292
- Verma S, Agrawal AC, Choudhary R, Venishetty N. Management of quadrilateral plate fractures: An up to date. *J Orthop Traumatol Rehabil* 2021;13:75-81
- Kar B**, Venishetty N, Kumar Yadav S, **Harshal Sakale**. (August 18, 2021) Use of Vancomycin Mixed Bone Graft and Vancomycin Mixed Saline Wash Before Wound Closure Reduces the Rate of Infection in Lumbar Spine Fusion Surgery. *Cureus* 13(8): e17275. doi:10.7759/cureus.17275
- Agrawal AC**, Choudary R, Nagaraju V, **Sakale H**. Management of Fibrous Dysplasia of the femur neck in a child by PHILOS stabilization, Curettage, and Bone grafting: A case report". *INTERNATIONAL JOURNAL OF ORTHOPEDIC SURGERY*
- Agrawal AC**, Garg AK, Choudhary R, Verma S, Dash RN. Giant Cell Tumor of the Distal Radius: Wide Resection, Ulna Translocation with Wrist Arthrodesis. *Cureus*. 2021 May 15;13(5):e15034.
- Choudhary R, **Agrawal AC**, Garg AK, Inamdar AP, Verma S. Long-term clinical results of autologous Platelet Rich Plasma (PRP) in recalcitrant plantar fasciitis. *IP International Journal of Orthopaedic Rheumatology* 2021;7(1):12–16.
- Anwar A, Verma S, **Agrawal AC**, Choudhary R, Garg AK. A better functional outcome with platelet-rich plasma compared with local steroid injection in tennis elbow. *IP International Journal of Orthopaedic Rheumatology* 2021;7(1):24–28.
- Agrawal AC**, Inamdar AP, Choudhary R, et al. Bilateral idiopathic club foot in a rheumatoid mother: A rare case report and its management, *IP International Journal of Orthopaedic Rheumatology* 2021;7(1):1-4
- Agrawal AC**, Inamdar AP, Garg AK, Choudhary R. Congenital Elbow Dislocation: A Case Report. *JBJS Case Connect*. 2022 March 16;12(1). doi: 10.2106/JBJS.CC.21.00444. PMID: 35294416.
- Agrawal AC**, Ojha MM, Garg DK, Pandiyarajan E. Calcaneal Osteomyelitis Treated with Antibiotic Mixed Calcium Sulphate Pellets. A Case Report. *J Orthop Case Rep*. 2021 Oct;11(10):80-82. doi: 10.13107/jocr.2021.v11.i10.2480. PMID: 35415097; PMCID: PMC8930312.
- Agrawal A C**, Mohapatra E, Nanda R, Bodhey N, **Harshal Sakale**, Ankit Garg (March 28, 2022) Plasma Interleukin-33 Cannot Predict

Hip Osteonecrosis in Patients with Sickle Cell Disease: A Case-Control Study. Cureus 14(3): e23556. doi:10.7759/cureus.23556

Outcomes of Tumor Resection and Reconstruction by megaprosthesis around Knee: Our Experience. J Orthop Case Rep. 2021 Jun;11(6):49-52. doi: 10.13107/jocr.2021.v11.i06.2254. PMID: 35437493; PMCID: PMC9009471.

14. **Kar BK**, Ojha MM, Yadav SK, **Agrawal AC**, **Sakale H**.

### Chapter(s) in Books

S. No.	Author(s)	Chapter Title	Editor	Book	Edition	City of Publication	Publisher	Year of Publication	First page-Last page
1.	Mukherjee SK, <b>Agrawal AC</b> , Ojha MM	Biomechanics of Joints	Manish Khanna	Textbook of Orthopaedic Rheumatology	First edition	New Delhi	Jaypee	2022	6-18
2.	<b>Agrawal AC</b> , Garg AK, Verma S.	Rheumatoid and Neuropathic Foot	Manish Khanna	Textbook of Orthopaedic Rheumatology	First edition	New Delhi	Jaypee	2022	443-456
3.	<b>Agrawal AC</b> , <b>Kar B</b> , Inamdar A	Common Hand Disorders	Manish Khanna	Textbook of Orthopaedic Rheumatology	First edition	New Delhi	Jaypee	2022	429-443
4.	<b>Agrawal AC</b> , Ojha MM, <b>Sakale H</b>	Approach to Inflammatory Arthritis of Hand	Manish Khanna	Textbook of Orthopaedic Rheumatology	First edition	New Delhi	Jaypee	2022	392-404
5.	Khanna V, Agrawal M, <b>Agrawal AC</b>	Osteoarthritis: Etiology, Pathogenesis, and Management	Manish Khanna	Textbook of Orthopaedic Rheumatology	First edition	New Delhi	Jaypee	2022	171-184
6.	Kar B, <b>Sakale H</b> ., Agrawal, A.C.	Clinical Presentation: Musculoskeletal Spectrum	Nagarkar, N.M., Mehta, R.	Rhinospodriosis .	<a href="https://doi.org/10.1007/978-981-16-8508-8_7">https://doi.org/10.1007/978-981-16-8508-8_7</a>	Spinger	Singapore	March 2022	

### PATIENT CARE

	OPD	IPD	Major OT	Minor OT
Total	25703	1274	977	10

## AWARDS, HONOURS, AND SIGNIFICANT EVENTS

### Prof.(Dr.) Alok C. Agrawal

1. Dr. M L Rathi Oration 2022 in IMA CGCON 2022.

2. Honorary Professor, National Indian Medical Association for period of 5 Years.

### Dr. Harshal S. Sakale

1. Selected for IAS[Indian Arthroscopy Society] –Dr. Gopalakrishnan Fellowship

### Others-

1. Dr. Ankit Kumar Garg and Dr. Dinesh R Iyer won the first prize in Chhattisgarh Open Orthopaedic Quiz.

2. Dr. Ankit Kumar Garg and Dr. Anupam Inamdar Pradip were selected for Chhattisgarh-Orissa Exchange Fellowship 2022.

3. Dr. Anupam Pradip Inamdar won the prestigious Prof Dr. S. Rajasekaran Gold Medal Award for Best Paper Presentation in Coimbatore Orthopaedic Society.

4. Dr. Debashish Sarkar won second prize in a poster presentation at CEZCON 2020.

5. Dr. Debashish Sarkar and Dr. Gautam Prasad Nirala won third prize in CEZCON 2020 quiz.

6. AO Trauma Basic Course 12 & 13 November 2021 – Dr. Shubham Bhardwaj, Dr. Santhosh Kumar Yadav, Dr. Pandiyarajan E, Dr. Deepak Kumar Garg, Dr. Somok Banerjee

7. CIIT Clubfoot Ponseti Fellowship, FEB 2022 - Prof. (Dr.) Alok C. Agrawal, Dr. Pandiyarajan E, Dr. SomokBanerjee



# Department of Pediatric Medicine

## Professor & Head

Prof.(Dr.) Anil K. Goel

## Additional Professors

Dr. Atul Jindal

Dr. Tushar Jagzape

## Associate Professors

Dr. Manas Ranjan Sahoo

Dr. Sunil Jondhale

Dr. Tripty Singh

## Assistant Professor

Dr. Simran Syal

## HIGHLIGHTS

The department is actively involved in many research projects, both extra and intramural. CME and hands on workshop on Pediatric Nursing Emergency Preparedness Programme for nursing officers was carried out in two batches. IAP – ALS/BLS (PALS) course was successfully carried out for residents in the Institute with the help of learned faculties of the state. State center of excellence in SAM management in collaboration with NHM and UNICEF has initiated and participated in the following activities: Online training of all feeding demonstrators, Staff Nurses was conducted on topic “Initial feeding of admitted children with SAM in NRC” (23.04.2021), ANM and ASHA training Under CMAM Programme and one day workshop, Training on CC-SAM of all Sarpanch and Secretary, Self-Help Group members, President of village organization, Secretary, community resource persons and active woman of Mohla & Manpur district of Rajanandgaon was done with good enthusiasm and active participation. World Breastfeeding and ORS week was celebrated on various key issues related to IYCF and awareness activities conducted in both rural and urban areas of Raipur and two blocks of

Rajanandgaon. CMAM programme was launched on 01.09.2021 in Rajanandgaon district in the presence of Minister Dept of WCD, CG, Director AIIMS Raipur, DM Rajanandgaon and CFO UNICEF CG. Three days of residential training of trainers (Medical officers of ten aspirational districts NRCs) on management of Under 6 months SAM and F-SAM training was organized by Department of HFW with support of SCoE, NCoE and UNICEF.

## EDUCATION

The department is successfully running the DM courses in Pediatric Emergency Medicine, Pediatrics Critical Care, & PDCC in Pediatric cardiac critical care and Neonatology. The department Carried out induction program for Post graduate resident of Pediatrics for 3 days from 31.12.2021 to 03.01.2022 and 24.02.2022 of two batches. Key highlights were PALS, BLS, Pediatrics triaging, Medico legal aspect, notifiable disease, documentation and death form filling. The department has successfully participated in internship induction programme and delivered lectures on “Recognition of a sick child in the emergency”, antibiotic stewardship& COVID management guideline.

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES

S. No.	Title	CME/Conference	Date	Organized By
1.	Breast Feeding Week and ORS Week	CME cum Awareness Program at AIIMS, Pt JNM MC, DHH Raipur and Mohla and Manpur block of Rajnandgaon	01-07.08.2021	Department of Pediatrics
2.	Pediatric Nursing Emergency Preparedness Programme I	CME and Hands on workshop Pediatric Nursing Emergency Preparedness Programme	21.10.2021	Department of Pediatrics & Nursing College
3.	Pediatric Nursing Emergency Preparedness Programme II	CME and Hands on workshop Pediatric Nursing Emergency Preparedness Programme	22.02.2022	Department of Pediatrics & Nursing College
4.	Sickle Cell Day Celebration	World Sickle Cell Day Celebration	19.06.2021	Department of Pediatrics, AIIMS, Raipur
5.	IAP – ALS/BLS	Workshop	12.12.2021 to 13.6.2021	Department of Pediatrics, AIIMS, Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

Dr. Anil K Goel

S. No.	Title	CME/Conference	Date	Organized By
1.	Epidemiology Sickle Cell Disease	World Sickle Cell Day	19.06.2021	Department of Pediatrics, AIIMS, Raipur
2.	Myths related to Breastfeeding for Lady Supervisors and AWW	World breast feeding week	04.08.2021	Mohla Rajanandgaon
3.	Importance of early Initiation of Breastfeeding and IMS Act for FD of NRC	World breastfeeding week	04.08.2021	SCoE - SAM
4.	Resource Person- How we Treat - Sickle cell Disease” Regional Recommendations on VOC Prevention	SCD webinar	14.08.2021	Online Novartis Healthcare Private Limited
5.	Evidence based Optimization of HU use – Initiation, Titration and Maximum Tolerated Dose	SCD webinar	14.08.2021	Online Novartis Healthcare Private Limited
6.	SAM बच्चों का उपचार व प्रबंधन	Suposhit CG, Paridrushya and Chunotiya, Rashriya Poshan Mah 2021	13.09.2021	UNICEF and WCD
7.	MCQ writing Workshop -Pediatrics	MCQ writing Workshop by DNB National Board	29.09.2021	NBE, New Delhi

S. No.	Title	CME/Conference	Date	Organized By
8.	To create Master Trainer to Manage under 6 SAM Children	TOT of U6 SAM Management for Medical Officers of NRCs( District Hospital) of Ten Aspirational Districts	07-08.10.2021	AIIMS Raipur, UNICEF and NCoE, Delhi
9.	Triaging and Stabilization of a Sick Child	CME and Hands on Workshop, Paediatric Nursing Emergency Preparedness Programme	21.10.2021	AIIMS Raipur
10.	Triaging Children	Pediatric Nursing Emergency Preparedness Programme for COVID-19	21 & 22.10.2021	AIIMS Raipur
11.	ER Management of ASA and Asthma Mimics	Clinical Grand Round -PEM	25.10.2021	AIIMS Raipur
12.	Experience sharing on CMAM from Chhattisgarh	National Consultation on Addressing Acute Malnutrition	28-29.10.2021	MoHFW and NCoE, New Delhi
13.	Are our Assessments in Line with the changing Times?	8 <sup>th</sup> National Conference of Pediatric Education	26.11.2021	AIIMS Bhubaneswar and IAP Odisha
14.	Pulmonary Emergencies in Children	WACEM; World Academy Congress of Emergency Medicine 2022	10.12.2021	WACEM21
15.	Case based Discussion using PALS (ABC)	WACEM; World Academy Congress of Emergency Medicine 2022	10.12.2021	WACEM21
16.	Case based Discussion on Neonatal Resuscitation	WACEM; World Academy Congress of Emergency Medicine 2022	11.12.2021	WACEM21
17.	Infectious Emergencies in Children	WACEM; World Academy Congress of Emergency Medicine 2022	12.12.2021	WACEM21
18.	Developing Pediatrics Emergency a Super Speciality in India	WACEM; World Academy Congress of Emergency Medicine 2022	12.12.2021	WACEM21
19.	Fluid Therapy in Pediatrics Septic Shock –What’s New	PAICON 2021	26.12.2021	Pediatric Association of India and CGAP, Raipur
20.	Ventilation Strategies in Children-Debate	PAICON 2021	26.12.2021	Pediatric Association of India and CGAP, Raipur
21.	Scope of Pediatrics, Rules & Regulations of Department	Induction Programme of PG JR, Pediatrics	26.12.2021	Department of Pediatrics, AIIMS
22.	Recognition of Sick Child in ER	Internship Induction Programme 2022	08.02.2022	AIIMS Raipur
23.	Triaging of Children	CME and Hands on workshop, Paediatric Nursing Emergency Preparedness Programme	21.02.2022	AIIMS Raipur
24.	Stress Management CDAC HMIS presentation	MEDRECON 2022	13.03.2022	Medical Records Department AIIMS Raipur
25.	Management of Acute GI Bleed in ER	PEDICON 2022	20.03.2022	Central IAP
26.	Trauma Management: Approach to an Unstable Child	PEDICON 2022	21.03.2022	Central IAP

## Dr. Tushar Jagzape

S. No.	Title	CME/Conference	Date	Organized By
1.	Vaccination in Sickle Cell Hemoglobinopathy	World Sickle Cell Day Celebration	19.06.2021	Department of Pediatrics, AIIMS, Raipur
2.	Clinical Markers in Genetic Diseases	Virtual CME on Update on Diagnostics in Medical Genetics	18.08.2021	Department of Biochemistry, Raipur Institute of Medical Sciences, Raipur
3.	AMSP- Need of the Hour	Virtual CME- A Step Towards Antibiotic Stewardship	22.09.2021	AMSP committee AIIMS, Raipur
4.	Chronic Urticaria	21 <sup>st</sup> CG-PEDICON	14.11.2021	Academy of Pediatrics, Jagdalpur
5.	Assessment of Knowledge	Pre Conference Workshop- 8 <sup>th</sup> National Conference of Pediatric Education	26.11.2021	AIIMS Bhubaneswar and IAP Odisha
6.	Debate- Are our assessments in Line with Changing Times	8 <sup>th</sup> National Conference of Pediatric Education	27-28.11.2021	AIIMS Bhubaneshwar and IAP Odisha
7.	Debate- Like ` Health for All, is it pass for all`	8 <sup>th</sup> National Conference of Pediatric Education	27-28.11.2021	AIIMS Bhubaneshwar and IAP Odisha
8.	AMSP- Need of the Hour	Antimicrobial Resistance- National Action Plan- National Medical Commission	23.02.2022	Mamata Academy of Med Sciences, Bachupally, Hyderabad

## Dr. Atul Jindal

S. No.	Title	CME/Conference	Date	Organized By
1.	Interpretation of Blood Investigations in COVID-19	Clinical Excellence Program: Interactive Webinar Series	09.06.2021	AIIMS Raipur
2.	Management of Moderate to Severe Birth Asphyxia	TecNec Phase 2 Training of Nurses	17.06.2021	UNICEF, Chhattisgarh and CGHealth Department
3.	Emergency Triage Assessment and Treatment	ToT on ETAT for Doctors and Nurses	21.06.2021 to 23.06.2021	UNICEF, Chhattisgarh and CGHealth Department
4.	Management of Moderate to Severe Birth Asphyxia	TecNec Phase 2 Training of Nurses	24.06.2021	UNICEF, Chhattisgarh and CG Health Department
5.	MIS-C and Management of ARDS in COVID	COVID Update	26.06.2021	Department of Pediatrics, Pt JNM Medical College, Raipur and CGAP
6.	Diagnosis Of Malaria in Children	ToT on Malaria for Doctors	28.06.2021	SIHFW, Chhattisgarh
7.	Management of Complicated Malaria in Children	ToT on Malaria for Doctors	29.06.2021	SIHFW, Chhattisgarh
8.	Management of Moderate to Severe Birth Asphyxia	TecNec Phase 2 Training of Nurses	01.07.2021	UNICEF, Chhattisgarh and CG Health Department
9.	Cyanotic Spell	Web Lectures for Postgraduates	10.07., 2021	Indian Academy of Pediatrics

S. No.	Title	CME/Conference	Date	Organized By
10.	Patient Ventilator Dysynchrony	National Webinar	09.08.2021.	Intensive Care Chapter of IAP
11.	Covid in Children Mild and Moderate Assessment E-Management	ToT for Doctors of Bihar	10.08.2021	AIIMS Patna and NHM Bihar
12.	Pediatric TB	Tuberculosis Update	14.08.2021	Department of Pediatrics and Department of CFM, Pt JNM Medical College, Raipur
13.	Global Perspective on Mucormycosis	Multidisciplinary Management of Mucormycosis	28.08.2021	Department of ENT and Head and Neck Surgery, AIIMS Raipur
14.	Quality care in SNCU	TecNec Phase 2 Training of Nurses	02.09.2021	UNICEF, Chhattisgarh and CG Health Department
15.	Quality care in SNCU	TecNec Phase 2 Training of Nurses	09.09.2021	UNICEF, Chhattisgarh and CG Health Department
16.	Emergency Triage Assessment and Treatment	ToT on ETAT for Doctors and Nurses	21.09.2021 & 22.09.2021	UNICEF, Chhattisgarh and CG Health Department
17.	Implementation Strategies of AMSP	A step towards Antibiotic Stewardship	23.09.2021	AMSP Committee, AIIMS Raipur
18.	Emergency Triage Assessment and Treatment	ToT on ETAT for Doctors and Nurses	24.09.2021 & 25.09.2021	UNICEF, Chhattisgarh and CG Health Department
19.	Critical Care Management of Dengue	National Grand Rounds Webinar for DnB Pediatrics Students	25.09.2021	National Board of Examinations
20.	Improving Quality of Newborn Care: Use of ICT Platform	Ensuring Quality Health Care for Newborns along the continuum	26.09.2021	UP CZ NEOCON
21.	Pediatric Covid	CME on Balroga	06.10.2021	Govt. Ayurvedic College, Raipur
22.	Diagnostic Modalities in Pediatrics	CME on Balroga	09.10.2021	Govt. Ayurvedic College, Raipur
23.	COVID 19 Disease Spectrum Pulmonary Vs Extrapulmonary during 1 <sup>st</sup> and 2 <sup>nd</sup> Wave of COVID 19	National Hybrid CME on COVID-19 Human Resilience, Innovation & Hope	23.10.2021	Department of Microbiology, AIIMS Raipur
24.	Procalcitonin in Community acquired Pneumonia	RESPICON 2021	24.10.2021 & 25.10.2021	Respiratory Chapter of Indian Academy of Pediatrics
25.	Acute Febrile Encephalopathy	National Webinar	25.10.2021	Intensive Care Chapter of IAP
26.	Ten best Practices for Improving outcome in Preterm Newborns.	CGIAP National Newborn Week	20.11.2021	CGIAP
27.	Pediatric Tuberculosis Management: What's New	Pulmonary Medicine Update 2021	18.12.2021	Department of Pulmonary Medicine, AIIMS Raipur

S. No.	Title	CME/Conference	Date	Organized By
28.	ARDS: Whats new?	PAICON 2021	26.12.2021	Pediatric Association of India, CGAP and Pt JNM Med Col, Raipur
29.	Public Lecture on COVID	Public Lecture	23.01.2022	Sanatan Samaaj Central India
30.	Poisoning in Children and Electric Shock	National Webinar	27.02.2022	Intensive Care Chapter of IAP and Gujarat Chapter of IAP
31.	Pediatric AKI: Bridging the Knowledge Gap to Better Kidney Care	Bridging the Knowledge Gap to Better Kidney Care	10.03.2022	Department of Nephrology & Urology and School of Public Health
32.	Importance of Medical records/ Health Information for Achieving Better Health	MEDRECON 2022	12.03.2022	Medical Records Department AIIMS Raipur
33.	Isolation Precautions	Nurses and Doctors training by HICC	30.03.2022	HICC

### Dr. Manas Ranjan Sahoo

S. No.	Title	CME/Conference	Date	Organized By
1.	Antibiotic stewardship & Covid management guideline	Internship induction programme	10.02.2022	AIIMS Raipur

### Dr. Sunil Jondhale

S. No.	Title	CME/Conference	Date	Organised By
1.	Clinical presentation and complications of Sickle cell disease	World Sickle Day CME	19.06.2022	Department of Pediatrics

### Dr. Tripty Singh

S. No.	Title	CME/Conference	Date	Organised By
1.	Newborn Screening: Global versus Indian Perspective	National CME on "Integrating with OMICs in Newborn Metabolic Disorders"	11.09.2021	Department of Biochemistry, AIIMS Raipur

### Dr. Simran Syal

S. No.	Title	CME/Conference	Date	Organised By
1.	Assessment and Management of Hypoglycemia in Children with Diabetes	4 <sup>th</sup> Chhattisgarh State Conference of Research Society for study of Diabetes in India	26.03 2022	Research Society for study of Diabetes in India

S. No.	Title	CME/Conference	Date	Organised By
2.	State Expert in “Meet the Experts Session for type I Diabetes Mellitus Patients and their Parents”	4 <sup>th</sup> Chhattisgarh State Conference of Research Society for study of Diabetes in India	27.03. 2022	Research Society for study of Diabetes in India

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Kartek M, Jondhale S, Goel A K, Gupta R	A Case of Congenital Dyserythropoietic anemia (CDA) type 2 in an Adolescent Girl: A Case Report	PHOCON 2022 Hyderabad	30.10.2021 to 31.10.2022	Pediatrics Hematology and Oncology Chapter of IAP
2.	Das P K., Jondhale S, Goel A K	Pediatric Lymphoma: A Case Series from Central India (E-Poster)	PHOCON 2022 Hyderabad	30.10.2021 to 31.10.2022	Pediatrics Haematology and Oncology Chapter of IAP
3.	Mohanty N, Jondhale S, G.S Manoj, Goel A. K., Satarkar R.	Childhood Non-Hodgkin Lymphoma masquerading as right atrial myxoma - A case report (E-Poster)	PHOCON 2022 Hyderabad	30.10.2021 to 31.10.2022	Pediatrics Haematology and Oncology Chapter of IAP
4.	Basila TV, Jagzape T, Goel A.K.	CDA-presenting as transfusion dependent microcytic anemia in infancy-“a rare presentation of rare entity. (E-Poster)	Pediatrics Haematology Oncology International Conference	19.21.2021	International Society of Pediatrics Oncology
5.	Jondhale S, Arora I, Goel A.K., Jagzape T, Singh T, Sahoo M R.	Clinical profile and spectrum of pediatric malignancy in tertiary care hospital of central India. (E-Poster)	PHOCON 2022 Hyderabad	30.10.2021 to 31.10.2022	Pediatrics Hematology and Oncology Chapter of IAP
6.	Keshri S, Goel A K.	How much fluid to push in septic shock in children: a single center experience” (1st Research award in WACEM 2021)	WACEM 2021	11.12.2021	World academy congress of emergency Medicine
7.	Yusuf S, Goel A K.	An unusual presentation of Pediatric cardiac tumour.(3 <sup>rd</sup> Research award in WACEM 2021	WACEM 2021	11.12.2021	World academy congress of emergency Medicine
8.	B Goutham, Goel A K	Not all wheezes are bronchial asthma.	WACEM 2021	11.12.2021	World academy congress of emergency Medicine
9.	Parhad P, Jindal A, Nagarkar N, Galhotra A, Behera A (E-Poster)	To assess the profile and predictors of outcome in COVID-19 patients with co-morbidities in public sector tertiary care hospital of central India.	European Society of Intensive Care Medicine (ESICM) Annual Congress Copenhagen	03.10.2021 to 06.10.2021	European Society of Intensive Care Medicine (ESICM)

S. No.	Authors	Title	Conference	Date	Organised By
10.	Sudeepthi SV, Jindal A (E-Poster)	Profile and predictors of outcome in children with COVID-19 disease	European Society of Intensive Care Medicine (ESICM) Annual Congress Copenhagen	03.10.2021 to 06.10.2021	European Society of Intensive Care Medicine (ESICM)
11.	Vaishnav K, Jindal A, Galhotra A (Oral)	To assess the profile and predictors of outcome in babies admitted in special newborn care units (SNCUs) of tribal districts of Chhattisgarh	CG PEDICON 2021	07.11.2021	Bastar Assoc of Pediatrics, Jagdalpur
12.	Varghese AR, Jindal A, Goel AK (Oral)	Role of intravenous Dexamethasone in prevention of post extubation airway obstruction in mechanically ventilated children in Pediatrics Intensive Care unit: A randomized Double blind controlled trial.	CG PEDICON 2021	14.11.2021	Bastar Assoc of Pediatrics, Jagdalpur Received First Prize for Best Oral Paper
13.	Sudeepthi SV, Jindal A (E-Poster)	Profile and predictors of outcomes of hospitalized and critically ill children with Corona virus disease 2019 at a tertiary care hospital from central India.	CG PEDICON 2021	14.11.2021	Bastar Assoc of Pediatrics, Jagdalpur Received 2 <sup>nd</sup> Prize for Best Oral Paper
14.	Nagalingeswaran K, Saha B, Jindal A (Oral)	Phase III Trial Of Molnupiravir In Adults With Mild Sars-Cov2 Infection In India	The 29th Conference on Retroviruses & Opportunistic Infections-CROI	12.02.2022 to 16.02.2022	International Antiviral Society-USA (IAS-USA)
15.	Sahoo M R.	Congenital Hyperinsulinemic Hypoglycemia in a Neonate: A case Report	2 <sup>nd</sup> Annual Conference of the Central Zone & UP Neocon		Central zone & UP Neocon

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Centre of Excellence for management of Severe Acute Malnutrition.	Anil K Goel	UNICEF & NHM	05	24.08.2019 -23.08.2024	2.5 crores, continuing
2.	Effectiveness of community-based treatment programs to treat children aged 6-59 months with uncomplicated severe acute malnutrition using alternative energy dense foods: A multi-centric prospective longitudinal follow up study.	Anil K Goel	UNICEF	01 year	Sept 2020 -Sept 2021	21 lacs



S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
3.	Association between anthropometric criteria and body composition among children aged 6-59 months with severe acute malnutrition: a cross-sectional assessment from India”	Anil K Goel	UNICEF	01 year	Sept 2020 - Sept 2021	21 lacs
4.	Cost effectiveness analysis of CSAM program in the two study blocks of Rajanandgaon district, Chhattisgarh.	Anil K Goel	UNICEF	3 months	March22-June22	
5.	Study of Emerging Biomarkers of Renal Injury in Acute Kidney Injury in Term Neonates with Perinatal asphyxia – A Nested Case Control Study	Anil K Goel	AIIMS Raipur	2 years	Aug 2019 -Aug 2021	05 lacs
6.	Burden of Vaso-Occlusive pain crisis: A Cross-sectional Observational Study Among Patients with Sickle Cell Disease in India (B-VOCAL SCD) Interventional Study Protocol (Non-PASS) CSEG101AIN01	Anil K Goel	Novartis Health care limited	6 months	Dec 2021	1.5 lacs
7.	Developing Growth Charts for Healthy Indian Children and Adolescents 5-18 Years. (Approved but not yet started due to COVID)	Tushar Jagzape. Anil K. Goel	ICMR	5 year	Not yet started due to COVID	40 lacs
8.	A Phase III, Multicentric, Prospective, Randomized, Parallel Study to Evaluate the Efficacy and Safety of Molnupiravir in Adult Indian Patients with Mild COVID-19	Atul Jindal	Hetero Labs Limited	06 months	2021-2022	1.95 lacs
9.	A Phase III, Multicentric, Prospective, Randomized, Parallel Study to Evaluate the Efficacy and Safety of Molnupiravir in Adult Indian Patients with Moderate COVID-19	Atul Jindal	Hetero Labs Limited	06 months	2021-2022	33,500 INR
10.	A Phase 3, Observer blind, Randomized, Active-Controlled Trial Evaluating the Immunologic Non-inferiority, Safety and Tolerability of a 15-valent Pneumococcal Conjugate Vaccine Compared to a 13-valent Pneumococcal Conjugate Vaccine in Healthy Infants Given with Routine Pediatric Vaccinations.	Atul Jindal	Tergene Biotech	01 Year	2021-2022	8.15 lacs
11.	A Post Marketing Surveillance (PMS) study for VPRIV® (velaglucerase alfa) in India	Atul Jindal	Takeda	01 Year	2021-2022	2.5 lacs
12.	A Multicentre, Open-label, Non-comparative Phase IV Clinical Study to Evaluate the Safety and Clinical Efficacy of Augmentin Extra Strength (ES)-600 (amoxicillin/potassium clavulanate 14:1 combination) in Children with Acute Respiratory Tract Infections (ARTIs) in India.	Atul Jindal	Glaxo Smith Kline Research & Development Limited	01 Year	2022	4.87 lacs

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
13.	Multicentric Neonatal Sepsis Study (BMGF)	Atul Jindal	Bill and Mallinda Gates Foundation	27 months	2020-2022	62.98 lacs
14.	Quality Improvement project on newborn and child health care	Atul Jindal	UNICEF	5 years	2019- 2024	53.34 lacs
15.	Setting up of Registry for Renal Complications In Indian Children with Sickle Cell Disease: The Indian Sickle Cell Nephropathy (ISN) Consortium.	Atul Jindal	ICMR	03 Years	2021-2023	54.84 lacs
16.	Impact of Medical Officers training in improving child health outcomes of Chhattisgarh	Atul Jindal	SHRC	5 Years	2019-2024	81 lacs

### Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	AIIMS Raipur: Initiating Antimicrobial Stewardship activities in Hospitals in India. Extramural Multicentric Project Funded by ICMR.	Dr. Tushar Jagzape, Dr. Padma Das	ICMR	3 years	2018-2021	10 lakhs
2.	Sensitization Pattern to various Common Allergens, using allergy Skin prick test (SPT) in children suffering from asthma, allergic rhinitis and atopic eczema attending asthma OPD, at AIIMS, Raipur.	Dr. Tushar Jagzape	AIIMS, Raipur	3 years	2018-2021	2 lakhs
3.	A Multicentric, single arms, phase IV clinical trial to evaluate the safety and efficacy of Itolizumab for the treatment of Cytokine Release Syndrome (CRS) in moderate to severe acute respiratory distress syndrome (ARDS) patients due to COVID 19.	Dr. Atul Jindal	Biocon	01 Year	2021-2021	6.06 lacs
4.	Situational analysis of childhood cancer care services in India	Dr. Sunil Jondhale	ICMR	6 month	June 2021- Dec 2021	24500 INR

## Departmental Projects – Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations

### Ongoing

S. No.	Project
1.	Initial Fluid Bolus Versus No Bolus in the resuscitation of septic shock in children- A Randomized Control Trial.

S. No.	Project
2.	Determinants of infection for initiation of antibiotics in children attending Pediatric emergency in the golden hour.
3.	Intravenous Ketorolac versus Intravenous Morphine for the management of severe vaso-occlusive crisis in children with sickle cell disease. A double blind, Randomized Controlled Trail.
4.	To study the determinants of different crisis in sickle cell disease in Pediatric population attending a tertiary care centre of central India.
5.	Determinants of acute kidney injury in children admitted with nephrotic syndrome in the department of Paediatrics in a tertiary care hospital of Central India.
6.	Social and Demographic factors for obesity and prevalence of depression in the obese children of age group 6-12 years visiting AIIMS, Raipur OPD/IPD
7.	Intestinal Parasitic Infection As An Associated Risk Factor For Severe Acute Malnutrition In Rural Children In Age Group 6m-5yrs Of Raipur District: A Case Control Study.
8.	Comparison of Efficacy of 7 days vs 14 days course of intravenous antibiotics in the treatment of uncomplicated neonatal bacterial sepsis
9.	“Early versus Conventional initiation of Renal replacement therapy in children with AKI – A randomized controlled trial”
10.	Intravenous Levetiracetam versus Intravenous Phenytoin for Second Line Treatment of Pediatrics Convulsive Status epilepticus- Open label Randomized Controlled trial
11.	Profile of Acute Kidney Injury in Pediatric age group in a tertiary care hospital of Central India
12.	Triage outcome in children visiting Pediatric Emergency Medicine and its correlation with the hospital outcome in a tertiary care centre
13.	Efficacy and Safety of Early Fortification of Human Milk as Compared to Standard Fortification in Very Low Birth Weight Babies – an Open Label Parallel Arm Randomized Controlled Trial

### Completed

S. No.	Project
1.	Role of intravenous Dexamethasone in prevention of post extubation airway obstruction in mechanically ventilated children in Pediatrics Intensive Care unit: A randomized Double blind controlled trial.
2.	Profile and predictors of outcomes of hospitalized and critically ill children with Corona virus disease 2019 at a tertiary care hospital from central India.
3.	Clinical profile and spectrum of paediatric cancers in tertiary care institute of central India”.
4.	Impact assessment of mHealth (mobile health) follow up of Severe Acute Malnourished (SAM) Children of Chhattisgarh state during COVID-19 Pandemic.
5.	Pattern and outcome of patients in Pediatric Emergency Medicine unit: An Indian perspective
6.	Assessment of splenic dysfunction in sickle cell disease in children
7.	Determinants of Compliance of Health Care Workers (HCWs) with Evidence-Based Infection Prevention and Control (IPC) Measures while Dealing with Emergency Cases during COVID-19 Pandemic – an Online Survey
8.	Nutritional Status of Children with Cerebral Palsy at a Tertiary Care Hospital

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	An Indian Multi-centric Phase IV study to assess the safety of Crizanlizumab with or without hydroxyurea therapy in sickle cell disease patients with vaso-occlusive crises. (CSEG101A2403)	General Medicine
2.	Ad Adaptive, randomized, active-controlled, open-label, sequential cohort, multicentre study to evaluate the efficacy, safety, tolerability, and pharmacokinetics of intravenous Cipargamin (KAE609) in adult and Pediatric participants with severe Plasmodium falciparum malaria (KARISMA – KAE609's Role in Severe Malaria) (CKAE609B12201)	Pathology
3.	Karyotyping: a good tool for screening of genetic diseases	Anatomy

## PUBLICATIONS

- Shah S, Goel AK. (2020) Community participation leads the road to epidemic free country. J Family Med Prim Care 9: 5389-90.
- Shah S, Akhade K, Ganguly S, Nanda R, Mohapatra E, Goel AK. (2021) Cutaneous manifestations associated with COVID-19 in children: A systematic review. J Family Med Prim Care 10:93-101.
- Goel AK, Shah S. (2021) Hyperglycemia: An independent accompaniment of COVID -19. J Family Med Prim Care 10:583.
- Goel AK, Chawla S, Dhingra A, Thiyagarajan V, Nair NP. (2021) Rotavirus Diarrhea and its Determinants Among Under-Five Children Admitted in a Tertiary Care Hospital of Southern Haryana, India. Indian J Pediatrics 88(Suppl 1):16-21.
- Jagzape T, Goel AK. (2021) Inclusion of Multisystem Inflammatory Syndrome in Children and Adolescents Temporally Related to COVID -19 in the Differential Diagnosis of Kawasaki Disease. Indian J Pediatrics 15;58(2):191.
- Chawla S, Goel AK, Thiyagarajan V, Nair NP. (2021) Nutritional Assessment and its Association with Rotavirus Positivity Among Under Five Children Admitted with Diarrhea in a Tertiary Care Hospital of Southern Haryana, India. Indian J Pediatrics 88(Suppl 1):138-143.
- Jindal A, Nagarkar NM, Thakur AS, Goel A. (2021) A Hybrid Form Of Telemedicine And Quality Improvement: A Unique Way To Extend Intensive Care Services To Neonates In Medically Underserved Areas. Pediatric Critical Care Medicine Volume 22 - Issue Supplement 1 3S - p 29.
- Gaikwad UN, Bose O, Padhi A, Jindal A, Nagpure K, et al. (2022) A retrospective observational insight into COVID19 exposures resulting from personal protective equipment (PPE) breaches DOI: PLoS One 17(5):e0268582.
- Tiwari L, Jindal A, Gupta V, Taneja LN, Garg R, et al. (2022) Concept proposal for IRCF national CPR Registry and update on resuscitation guidelines for infants and children. Journal of Pediatric Critical Care, Volume 9.
- Singh P, Sharma K, Singh P, Bhargava A, Negi SS et al. (2022) Genomic characterization unravelling the causative role of SARS-CoV-2 Delta variant of lineage B.1.617.2 in 2nd wave of COVID-19 pandemic in Chhattisgarh, India: Microbial Pathogenesis 105404.
- Mehta R, Nagarkar NM, Jindal A, Rao KN, Nidhin SB, et al. (2021) Multidisciplinary management of COVID associated Mucormycosis Syndemic in India: Indian J Surg 6; 1-9.
- Sehgal IS, Guleria R, Singh S, Siddiqui MS, Agarwal R et al. (2021) A randomised trial of *Mycobacterium w* in critically ill patients

- with COVID-19: ARMY-1. ERJ Open Research 7 (2) 00059.
13. Sahoo MR, Jondhale SN, Goel AK. (2021) A chronic granulomatous disease masked by tuberculosis in a young infant 8(5):946-949.
  14. Shah S, Jondhale S, Sahoo MR *et al.* (2021) A Novel Mutation in Cystic Fibrosis Presenting as Pseudo Bartter Syndrome: A Case Report. *Ind J Clin Biochem.*
  15. Tripty N, Tushar J, Sunil J. (2021) Vitamin D intoxication presenting as subacute encephalopathy-a case report. *Child Neurol Open.* 8;2329048X211008075.
  16. Patel S, Padhi P, Naik T, Nanda R, Mohapatra E, Agrawal S. (2021) Newborn thyroid-stimulating hormone dynamicity as per the antenatal and perinatal factors. *Iranian Journal of Neonatology IJN.*12(3):58-67.
  17. Arora RD, Jati M, Nagarkar NM, Galhotra A, Agrawal S, Mehta R, Naik T. (2021) Experience, challenges and outcome of implementing universal new born hearing screening in a medical college hospital set up. *Indian J Otolaryngol Head Neck Surg.*5:1-6.
  18. Verma NR, Naik G, Patel S, Padhi P, Naik T, Nanda R. (2021) A detailed observational study of maternal and neonatal variables affecting the thyroid-stimulating hormone levels in neonates. *Egypt Pediatric Association Gaz.* 69(1):1-9.

### Abstracts published in journals.

1. Das PK, Jondhale S, Goel AK. (2021) Pediatric lymphoma: A case series from central India. *Pediatric Hematology Oncology Journal*, Volume 6, Issue 4, Supplement, Page S25, ISSN 2468-1245.
2. Kartek M, Jondhale S, Goel AK., Gupta R. (2021) A case of congenital dyserythropoietic anemia (CDA) type 2 in an adolescent girl: A case report, *Pediatric Hematology Oncology Journal.* Volume 6, Issue 4, Supplement, Page S37, ISSN 2468-1245,
3. Jondhale S, Arora I, Goel AK., Jagzape T, Singh T, Sahoo MR. (2021) Clinical profile and spectrum of pediatric malignancy in tertiary care hospital of central India", *Pediatric Hematology Oncology Journal*, Volume 6, Issue 4, Supplement, Page S18, ISSN 2468-1245.
4. Mohanty N, Jondhale S, Saurabh G, Goel AK, Satarkar R. (2021) Childhood Non Hodgkin Lymphoma masquerading as right atrial myxoma - A case report, *Pediatric Hematology Oncology Journal*, Volume 6, Issue 4, Supplement, Page S23, ISSN 2468-1245.

### Chapters in Books

S. No.	Author(s) of Chapter	Chapter Title	Name of the Editor	Name of the Book	Edition	City of Publication	Publisher	Year of Publication	First page-Last page
1	Goel AK	Neonatal Sepsis	Anoop Verma	PAI text book of Pediatrics	Ist	New Delhi	JAYPEE	2022	46-50
2	Goel AK	Traumatic Brain Injury	Anoop Verma	PAI text book of Pediatrics	Ist	New Delhi	JAYPEE	2022	408-414
3	Jagzape T	Food Allergies	Dr. Anoop Verma	PAI Textbook of Pediatrics	First edition	New- Delhi	Jaypee Brothers	2022	16-19
4	Jagzape T	Food poisoning	Dr. Anoop Verma	PAI Textbook of Pediatrics	First edition	New- Delhi	Jaypee Brothers	2022	20-24
5	Mehta A, Jindal A	Tropical Infections in Pediatric Intensive Care Unit.	Dr. S. Than-gavelu	IJPP textbook on Pediatric Intensive Care Unit Protocols	3 <sup>rd</sup> Ed	Chennai	IJPP	2022	437-44.

S. No.	Author(s) of Chapter	Chapter Title	Name of the Editor	Name of the Book	Edition	City of Publication	Publisher	Year of Publication	First page-Last page
6	R. Ambey, Naik T	Strongyloidi-asis	Gupta P, Menon PSN, Ramji S, Lodha R	PG Textbook of Pediatrics	Third	New Delhi	Jaypee Brothers Medical Publishers	2022	1621-5
7	Naik T	Iron deficiency anemia	Verma A, Sarbhal KP	PAI Textbook of Pediatrics	First	New Delhi	Jaypee Brothers Medical Publishers	2022	Accepted for publication

## PATIENT CARE

	OPD and Special Clinics	IPD
Total	21353	3172

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Dr. Anil K Goel

Recipient of Dr. Kelly P. O'Keefe Academician of the Year 2021, Member Technical advisory group, Centre of Excellence for Management of Severe Acute Malnutrition Network, India. Faculty INDO-US Fellowship in Pediatric Emergency Medicine. Nodal officer, CG State planning Commission, Member of InPHOG-Hemoglobinopathy subcommittee of IAP PHO chapter, Member- Network of Institutions for responding to Malnutrition- A Coalition of Nutrition Partners in Chhattisgarh, Master trainer under 6, severe acute malnutrition, Founder Honorary Secretary, IAP Pediatric Emergency Medicine chapter of IAP, 2021-2023, Founder member of IAP Pediatric Emergency Medicine chapter of IAP, Editor: Indian Journal of Case Report, Reviewer-Indian Pediatrics and Global journal of Infectious Diseases, Indian Journal of Clinical Health.

Organised world breastfeeding weeks in OPD & Postnatal ward, AIIMS, Raipur. Participated in panel discussion on the occasion of world breastfeeding weeks. SCD -Karan aur Niwaran, Web interview at Aakashwani Raipur. Panel discussion of real challenging Cases from Paediatric Emergency Room at PEDICON 2022. Participated in panel discussion on capacity building of various stake holder on community based management of sever acute malnutrition on the occasion of National Consultation on Addressing Acute Malnutrition.

### Dr. Tushar Jagzape

Reviewer- Journal of Clinical Diagnostic Research, Reviewer- Frontiers in Pediatrics, Reviewer- Innovative publications, Executive Board Member- Environment Child Health Group-IAP, Member- Pediatric Emergency Medicine Chapter- IAP, Panel discussion of ALLERENVICON- 1<sup>st</sup> Combined National Conference of Allergy Applied Immunology Chapter and Environment Child Health Group at IAP Kottayam and IAP Kerala.

### Dr. Atul Jindal

National Trainer in Common Emergencies, Burns and Trauma Care – Certified by NHSRC, Panel discussion with National grand round at AIIMS Delhi with UNICEF, Moderated sessions on Acute Lung Injury & Chylothorax in Respiratory Chapter of Indian Academy of Pediatrics.

# Department of Pediatric Surgery

## Additional Professor

Dr. Nitinkumar Borkar

## Assistant Professors

Dr. Charu Sharma

Dr. Sonali Mane

## HIGHLIGHTS

Department has started dedicated Fetal surveillance clinic. 2 MCh students has joined the superspeciality course in the department.

## EDUCATION

Collaborative educational activity with other departments like neonatology. Skill courses for nursing staff working with department.

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES

S. No.	Title	CME/Conference	Date	Organised By
1.	Congenital anomaly screening	CME cum Workshop	09.10.2021	Department of Pediatric Surgery AIIMS Raipur and CMHO Balod
2.	Science of Energy	CME cum Workshop	15.03.2022	Department of Pediatric Surgery AIIMS Raipur and Ethicon India

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Nitinkumar Borkar

S. No.	Title	CME/Conference	Date	Organised By
1.	Antenatal common gastrointestinal anomalies -looking beyond delivery	CME	16 September 2021	Patna chapter of Perinatology and Reproductive Biology
2.	Common congenital anomalies	Workshop	9 October 2021	Department of Pediatric Surgery AIIMS Raipur and CMHO Balod

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1	A prospective open labelled Phase IV study to access safety and efficacy of LYFAQUIN (Cenchaquine citrate) as a resuscitative agent for hypovolemic shock to be used as adjunct to standard treatment of shock	Dr. T Pugazenthan (Dr. NB as co PI)	Pharmazz Ind Pvt Ltd	2 yrs	2021-2023	17 lakh

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
2.	Randomized control trial comparing USG guided therapeutic transcutaneous aspiration and standard incision drainage in PVL toxin producing SSTA in pediatric patients : A hospital based pilot study	Dr. Charu Sharma	AIIMS Raipur	2yrs	2021-2023	5 lakh

### Departmental Projects – Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations

#### Ongoing

S. No.	Project
1	Pedicled preputial flap vs inner preputia free graft for staged hypospadias repair : a randomized control trial

#### Completed

S. No.	Project
1	Accuracy of Broselow Pediatric emergency tape at predicting weight in children of central India.

### Collaborative Projects

#### Ongoing

S. No.	Project	Collaborating Department/ Institution
1.	Immediate hemodynamic changes on performing slow uni nostril and alternate nostril breathing pranayama's in normotensive adults	Yoga and Naturopathy(Dr. NB as co PI)
2.	Clinicobiochemical profile and karyotyping in disorder of sexual development in Chhattisgarh state : A hospital based study.	Biochemistry (Dr. Charu as co PI)
3.	Comparative analysis of postoperative analgesia effect of caudal ropivacaine versus nalbuphine in infraumbilical pediatric surgeries : a randomised double blind pilot study	Anesthesia (NB-PG thesis as co guide)
4.	Double blind randomised control study of intranasal dexmedetomidine versus intranasal midazolam as anxiolysis prior to elective infraumbilical surgeries under general anaesthesia in children of ages 2-12 yrs	Anesthesia(NB -PG thesis as co guide)
5.	Comparison of oral melatonin and oral clonidine , premedication for attenuation of intubation response in pediatric patients of age group 5-11 yrs , undergoing surgical procedure under general anaesthesia, : a prospective blinded randomized trial.	Anesthesia(NB- PG thesis as co guide)

#### Completed

S. No.	Project	Collaborating Department/Institution
1.	Uniportal video assisted thoracoscopic procedure for chronic empyema	CTVS department



## PUBLICATIONS

1. **Tiwari C, Borkar N.** Evaluation of tunica vaginalis free graft as a better alternative totunica vaginalis pedicled flap for providing waterproof cover in stage II hypospadias repair. Afr J Paediatr Surg 2021; 18:90-3.
2. **Tiwari C, Nagdeve N, Saoji R, Hatwar G, Madavi A, Muqri A.** Bilateral congenital diaphragmatic hernia in a neonate managed surgically. J Indian Assoc Pediatr Surg 2022;27:266-9.
3. **Tiwari C, Nagdeve N, Saoji R.** Spontaneous necrosis in a Type I sacrococcygeal teratoma. J Indian Assoc Pediatr Surg 2021;26:274-5.
4. Gupta B, Hatwar G, **Tiwari C**, Bansod P. Meckel's Diverticulum: Varied Presentations. Tropical Gastroenterol 2021;41(4):174-81.
5. Shenoy NS, **Tiwari C**, Gandhi S, Kumbhar V, Joseph V, Basu S, Makan A, Shah H. Efficacy of fibrin sealant as waterproof cover in improving outcome in hypospadias surgery. Afr J Paediatr Surg 2021;18:215-8.
6. Mohanty D, Srivastava NK, **Borkar NB.** Discharging loin sinus: Unusual manifestation of ruptured horseshoe kidney. Trop Doct. 2021 Oct;51(4):578-579.
7. **Borkar N**, Sharma A, Hota D. Complicated Infantile Hemangioma Successfully Treated with Topical Timolol 0.5% Solution: A Case Report. J CutanAesthet Surg. 2021 Oct-Dec;14(4):440-442.
8. Padhan S, Pugazenthan T , Chandrakar R, Galhotra A, **Borkar NB.** Assessment of the Impact of COVID-19 on Drug Store Management in a Tertiary Care Teaching Hospital of Central India. Cureus. 2021 Nov 18;13(11):e19723.
9. **Borkar NB**, Mohanty D, Hussain N, Dubey R, Singh S, Varshney A. A rare case of congenital ranula. Afr J Paediatr Surg. 2021 Apr-Jun;18(2):106-108.

## Chapter(s) in Books

S. No.	Author(s)	Chapter Title	Editor	Book	Edition	City of Publication	Publisher	Year of Publication	First page-Last page
1	N Borkar, RV Patel, CK Sinha, H Gabra	Wilms' Tumor	Sinha CK, Davenport M	Handbook of Pedaitric Surgery	2 nd	Chennai	Springer	2022	363-369

## PATIENT CARE

OPD	IPD	Major OT	Minor OT	Tests	Special Clinics	Or any other facility
3772	653	418	9	-	Hypospadias clinic every Monday Fetal surveillance clinic every Friday	Pedaitric Urodynamic study facility

# Department of Pathology & Lab Medicine

## Professor & Head

Dr. Amit Kumar Chowhan

## Professor

Dr. Nighat Hussain

## Additional Professor

Dr. Rahul Satarkar

## Associate Professor

Dr. Vandita Yogendra Singh

## Assistant Professors

Dr. Rakesh Kumar Gupta

Dr. Ashish Kumar Gupta

Dr. Yashita Gupta

## HIGHLIGHTS

This year show establishment of Departmental library facility. Regular External Quality Assurance programmes are being done with various reputed labs of the country (Histopathology & ISHTM EQAS for Hematology with AIIMS, New Delhi, ISHBT Coagulation profile with CMC, Vellore, Cytopathology with Indian Academy of Cytology and Immunohistochemistry (HCG EQAS) with Tata Memorial Centre, Mumbai. Addition of new parameters in coagulation assay like Factor VII, VIII, IX, X, XI, Protein C and Protein S, New Retic parameters, Serum protein electrophoresis and expansion of IHC panel are few of the new dimensions achieved in this year.

## EDUCATION

Ongoing academic courses include MBBS, MD, BSc Nursing, BSc MLT and PhD. MBBS teaching include different methods like theory class, practical, tutorials, seminars, demonstration and autopsy. PhD course was started in pathology with intake of one student during the year 2020. MD student intake was increased from four to nine per year. Postgraduate teaching includes full week academic activities in the form of topic seminars, journal clubs, recent updates, gross pathology, slide seminars, case discussion and tutorials. Regular inter-departmental Clinicopathological correlation meetings (CPCs) and tumor board meetings are organized throughout the year. Department also celebrated 'World Pathology Day' on 15.11.2021. By conducting a Medical Quiz on World Pathology Day (15.11.2021.) for MBBS 2<sup>nd</sup> Professional Students.

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Amit Kumar Chowhan

S. No.	Title	CME/ CONFERENCE	Date	Organised by
1.	Recent Advances in WHO Diagnosis and Prognosis of CNS Tumors and its Challenges in Resource Poor Setting	Pre-conference CME on 'Recent Advances in WHO Diagnosis and Prognosis of CNS Tumors and its Challenges in Resource Poor Setting' in APCON 2021.	01.12.2021	Dept of Pathology, AIIMS Raipur as Part of APCON 2021

S. No.	Title	CME/ CONFERENCE	Date	Organised by
2.	Artificial Intelligence in Healthcare	CME NAMSCON 2020	04.07.2021	AIIMS, Raipur
3.	Approach to Bleeding Disorders and Electrophoresis with Immunofixation	CME on "Approach to Bleeding Disorders and Electrophoresis with Immunofixation"	01.07.2021	Department of Pathology, AIIMS Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Vandita Singh

S. No.	Title	CME / Conference	Date	Organized by
1.	Updates in new WHO Classifications of Tumors- CNS Tumours" specifically on "Molecular Techniques used in Diagnosis of CNS Tumours	IAPID preconference CME APCON 2021	01.12.2021	IAPM
2.	Importance of Pathology in Clinical Diagnosis	AYUSH conference at Government Ayurved College Raipur	08.11.2021.	Government Ayurved College Raipur
3.	Invitation on "Biopsies of Vitals" on The Topic "New WHO Classification of CNS Tumours- Edition 5"	Post Graduate CME Gadag	05.08.2021	GIMS Gadag
4.	Artificial Intelligence in Pathology	Artificial Intelligence in Healthcare-NAMSCON 2020	04.07.2021	NAMSCON 2020 Organised by AIIMS, Raipur

### Dr. Rakesh Kumar Gupta

S. No.	Title	CME / Conference	Date	Organized by
1.	Lab Diagnosis of Bleeding Disorders	Approach to bleeding disorders and Electrophoresis with immunofixation	01.07.2021	Department of Pathology & Lab Medicine, AIIMS Raipur
2.	Pathological Aspects of COVID Associated Mucormycosis	Multidisciplinary Management of Mucormycosis- Symposium	22.09.2021	Department of ENT, Head & Neck Surgery, AIIMS Raipur
3.	Thoracic SMARCA4-Deficient Undifferentiated Tumor	Pre-Conference CME (APCON 2021)	01.12.2021	Department of Pathology & Lab Medicine, AIIMS Raipur
4.	Surgical Management of CAM, Panel Discussion	Hybrid CME Multidisciplinary Management of Mucormycosis	28.08.2021	Department of ENT, Head & Neck Surgery, AIIMS Raipur
5.	How to Get NABL Accreditation: Essential Steps and Requirements in Pathology	Pre- Conference Workshop AMUCON2022	11.03.2022	GMCH, Udaipur

**Dr. Ashish Kumar Gupta**

S. No.	Title	CME / Conference	Date	Organized by
1.	Pitfalls in Lab Diagnosis of Sickle Cell Disease	World Sickle Day	19.06.2021	Dept of Pediatrics, AIIMS Raipur
2.	Flow Cytometric Reticulocyte Analysis- Clinical Application	CME on Hematology	01.07.2021	Dept of Pathology, AIIMS Raipur
3.	Flow Cytometric Reticulocyte Analysis- Clinical Application	Heme-Connect – A Conclave of Cytomorphology and Technical Hematology	20.11.2021	CHRI & TNPCIAPM

**Dr. Yashita Gupta**

S. No.	Title	CME / Conference	Date	Organized by
1.	Protein Electrophoresis and its Application	Approach to Bleeding Disorders and Electrophoresis with Immunofixation	01.07.2021	Department of Pathology & Lab Medicine, AIIMS Raipur
2.	Cross Matching for Organ Transplantation	CME on Organ Donation Day	27.11.2021	Department of Nephrology, Department of Urology and School of Public Health
3.	Undifferentiated Sarcomas: Newer WHO Updates	Pre-Conference CME (APCON 2021)	01.12.2021	Department of Pathology & Lab Medicine, AIIMS Raipur

**ORAL PAPERS/POSTERS PRESENTED**

S. No.	Authors	Title	Conference	Date	Organized by
1.	Sarkar S, Gupta RK, Verma K, Chowhan A K, Pandit V K	A Novel Association of HbQ India with Sickle Cell Trait: A new Insight in Hemoglobinopathies	APCON 2021	02 – 05.12.2021	PTJNMC, Raipur
2.	Palmal R, Verma K K, Satarkar R, Singh V, Chowhan A K, Satpute S	Extranodal NK/T Cell Lymphoma in a 19 Years Old Male: A Rare Case Report	APCON 2021	02 – 05.12.2021	PTJNMC, Raipur
3.	Varsha, Satarkar R, Chowhan A K, De M, Nimisha	Solitary Angiokeratoma in a Sickle Cell Disease Patient: A Rare Entity	APCON 2021	02– 05.12.2021	PTJNMC, Raipur
4.	Ruchira, kumar K, Satarkar R, Singh V, Chowhan A K, Satpute S	Extranodal NK/T Cell lymphoma in a 19 years Old Male : A Rare Case Report	APCON 2021	02– 05.12.2021	PTJNMC, Raipur
5.	Singh V, Saraf A	Presented Oral Paper on “A Case of Rhinosporidiosis Diagnosed on Nasal Discharge Cytology” Under Category of “Infective Lesions”	European Congress of Cytology, Poland	03- 06.10.2021	IAC European Congress of Cytology, Poland (Online)
6.	Singh V	2 Case presentations PPTID, VHL associated Orbital Hemangioblastoma	AOCN NPSI	25.09.2021	Newspaper Society of India

S. No.	Authors	Title	Conference	Date	Organized by
7.	Singh V, Patole G	Presented Paper on "Concept Mapping in Pathology education"	Meducon 2021 JIPMER	02-03.09.2021	Medical Education Department JIPMER
8.	Kartek M, Jondhale S, Gupta R K, Goel A K	Congenital Dyserythropoietic Anemia Mimicking Myelodysplastic Syndrome With Rapid Progression To Acute Myeloid Leukemia In An Adolescent Girl: A Case Report	PHOCON	12.12.2021	American Oncology Institute Nallagandla
9.	Kote R, Ravina M, Lukose T T, Gupta R K, Ramchandani R K et al	Role of Textural Parameters in Predicting Histological and Molecular Subtype and Grade of the Tumour in Breast Cancer Patients'	ANMPICON 2021	18-19.09.2021	AIIMS, Bhubaneswar
10.	Kumar AA, Bodhey NK, Pati S, Gupta R, Nagarkar NM et al	Plexiform Schwannoma Of Facial Nerve: A Rare Lesion Of The Parotid Not From The Parotid	13th Annual State Conference, IRIA CG Chapter	2021	PTJNMC, Raipur
11.	Karthika D, Bodhey NK, Pati S, Sharma AK, Gupta RK	Tumor Thrombus Extension Into Renal Vein & Ivc, From Urothelial Malignancy- A Rare Entity	13th Annual state conference, IRIA CG Chapter	2021	PTJNMC, Raipur

## Research

### Funded Projects

#### Ongoing

S. No.	Title	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	To Study The Co-Expression Of P16 & Ki 67 Dual Immunostain On Cytology Smears & Its Values In Detection Of Cervical Cancer And Its Precursors In Women From Chhattisgarh	Dr. Nighat Hussain	AIIMS, Raipur	1 Year	2019	5,00,000/-
2.	Multigenic Analysis In Patients With Malignant Pleural Effusion Using Cytological Specimens: A Sensitive Method For Molecular Study In Advanced Staged Cases	Dr. Ashish Kumar Gupta	AIIMS Raipur	2	2021-23	5,00,000/-

#### Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	Triple Negative Breast Cancer; Immunohistochemistry Based Genomic Profiling And Correlation With The Histomorphology And Outcomes	Dr. Rakesh Kumar Gupta	AIIMS, Raipur	02	2020-22	5,00,000/-

## Departmental projects – Non Funded Projects/ICMR-STs Projects/ Thesis/Dissertations

### Ongoing

S. No.	Title
1.	Expression of Estrogen Receptor, Progesterone Receptor and Programmed Death Ligand 1 in Meningioma: An Immunohistochemical analysis
2.	Assessment of Milan System for Reporting Salivary Gland Cytopathology a Tertiary Care Institute.
3.	Application of Sydney System for Lymph Node Cytology at a Tertiary Care Centre in Central India.
4.	Expression Of VEGF And PDL1 In Epithelial Ovarian Carcinomas At a Tertiary Care Centre In Central India
5.	Expression of Interleukin 37 and NLRP3 Inflammasome in the Skin Lesions of Leprosy.
6.	Study of IHC Expression of Ki-67 in a Cohort of Meningiomas
7.	Study of IHC Expression of PDL1 and IDH1 in a Cohort of Gliomas
8.	Spectrum of Histopathological Changes and Their Correlation with Clinical Presentations in COVID-19 Associated Mucormycosis Patients; A Hospital Based Cross Sectional Study
9.	Evaluation Of CD10 Expression In Trucut Biopsy / Core Needle Biopsy Specimens Of Invasive Breast Cancer Patients And Its Association With Clinicopathological Factors
10.	Role of Histopathological Findings as an Aid in the Prognosis of Post COVID-19 Rhino-Orbito-Cerebral Zygomycosis

### Completed

S. No.	Title
1.	Clinicopathological and Immunohistochemical Profile of CNS Gliomas in a Tertiary Care Institute.
2.	Immunophenotypic Profile of High Grade B-Cell Lymphomas at a Tertiary Care Centre In Central India.
3.	Study of BRAF V600E IHC Expression in a Cohort of Thyroid Lesions
4.	The trends of leprosy and its clinico-histopathological correlation: Study in a Tertiary Care Institute in Chhattisgarh.

### Collaborative Projects

#### Ongoing

S. No.	Title	Collaborating department/institution
1.	Retrospective Review of Clinical and Histopathological Parameters of Oral Cavity Carcinoma Patients Operated at AIIMS Raipur.	ENT, AIIMS, Raipur
2.	Analysis of Prognostic Biomarkers in Oral Cavity Squamous Cell Carcinoma	ENT, AIIMS, Raipur
3.	Study of Epidemiological, Clinical & Pathological Profile of Breast Carcinoma in Patients Cohort from AIIMS Raipur	General Surgery, AIIMS, Raipur
4.	Incidence, Pattern and Degree of Hearing Loss Following Acute CNS Infection (Meningitis and Meningoencephalitis) in Children (Neonate - 15years)	ENT
5.	IL-10 in Breast Carcinomas- is it a Prognostic Factor	General Surgery

S. No.	Title	Collaborating department/institution
6.	Pilot Study -Clinical, Radiological and Pathological Co-Relation of Mandibular Invasion in Carcinoma Oral Cavity	Department of ENT, Head & Neck Surgery, AIIMS Raipur
7.	To Evaluate the Efficacy and Safety of Semi Rigid Thoracoscopy Among the Patients with Undiagnosed Exudative Pleural Effusion	Department of Pulmonary medicine, AIIMS Raipur
8.	Role Of 18FDG PET/CT Radiomic Features And Texture Analysis Parameters In Predicting Pathological Type And Hormonal Receptor Status Of The Tumour In Newly Diagnosed Early Breast Cancer Patients	Department of Nuclear Medicine, AIIMS Raipur
9.	Assessment of Platelet Parameters Inpatients of Depression	Department of Psychiatry, AIIMS Raipur
10.	Comparison of Effect of TIVA Versus Inhalational Anaesthesia on Immune Cells in Patient Undergoing Radical Cystectomy: a Prospective, Randomised Controlled Study.	Dept of Anesthesia, AIIMS Raipur

### Completed

S. No.	Title	Collaborating department/institution
1.	Comparison Of Diagnostic Accuracy Of The Risk Of Malignancy Index, IOTA-Simple Rules And IOTA ADNEX Model In Discriminating Benign From Malignant Ovarian Tumors	Department of Obstetric & Gynecology, AIIMS, Raipur
2.	Prenatal Diagnosis of Congenital Anomalies – Prevalance, Pattern and Perinatal Outcome	Department of Obstetric & Gynecology, AIIMS, Raipur
3.	Role of Diffusion Weighted Imaging and Dynamic Contrast Enhanced MRI for Preoperative Evaluation of Endometrial Carcinoma – a pilot study	Department of Radio-diagnosis, AIIMS, Raipur
4.	Study of Hematological Indices as Predictors of Pre-eclampsia	Dept of OBG, AIIMS Raipur
5.	Comparison of Histopathological and Clinical Cause of Death at a Tertiary Care Hospital	Department of Trauma & Emergency, AIIMS, Raipur
6.	Characterization of Prostatic Lesion on Multiparametric MRI – An Institutional Study	Radio Diagnosis, AIIMS, Raipur

## PUBLICATIONS

- Sree UD, Prayaga AK, R. Reddy VV, Rukmangadha N, **Chowhan AK**, Phaneendra B V. Differential expression of CK7, CK20, CDX2 in Intestinal and Pancreatobiliary types of Periampullary Carcinoma. Indian J Pathol Microbiol 2022;65:42-8.
- Gupta P, Singh A, **Gupta RK**. Pacinian Corpuscles in Pancreas: Possible Clinical Implications. Pancreas. 2021 Jul 1;50(6):e56-7.
- Gupta RK**, Uttam P, Saran RK, Singh H. Role of intra-operative squash cytology in rosette-forming glio-neuronal tumor of the fourth ventricle; A case report. Int J Neurosci. 2021 Jul 19:1-5.
- Gupta RK**, Verma KK, Singh G. A Novel Association of HbQ India Trait with Sickle Cell Anemia: a New Insight in Hemoglobinopathies. SN Compr Clin Med. 2022;4(1):14.
- Sharma AK, Gandhoke CS, Misra S, Ravi A, **Gupta RK**, Gupta SK. Ectopic intraconal orbital meningioma - A rare case report. Surg Neurol Int. 2021 Jun 28;12:305.

6. Uttam P, **Gupta RK**, Hussain N. Male breast fibromatosis. Indian J Pathol Microbiol. 2021 Apr-Jun;64(2):430-432.
7. **Gupta RK**, Wasnik P, Mehta R, Nagarkar NM, Sharma MC. Dedifferentiated vallecular liposarcoma in supraglottic larynx: A case report with review of literature. Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology. 2021;33(4):482-5.
8. Uttam P, **Gupta AK**, Hussain N, Rai N. Exfoliation of uterine leiomyosarcoma in cervical scrape smear with histopathological correlation. J Cytol. 2022;39:81-83.
9. N Uppal, A. Hafeez, HN Ansari, F Xavier, **AK Gupta**. Post-traumatic tuberculosis of Zygoma – An uncommon presentation: J Stomatol Oral Maxillofac Surg. 2021:S2468-7855(21)00277-9.
10. R Mehta, S. Chakravarty, NM Nagarkar, **AK Gupta**, A Banjare. Mammary Analogue Secretory Carcinoma of Submandibular Gland,: IJO. 2022;24(3): 191-197.
- Abstract Published in Journal:**
1. Verma KK, **Satarkar RN** and Ramchandani R. Fibroadenoma Developing Ductal Carcinoma *in situ* Component, Associated with Separate Invasive Ductal Carcinoma Lesion: A Rare Case Report. Austin J Clin Pathol. 2021; 8(2): 1074.
  2. Nilaj bagde, sefali shinde, vinita singh, **Rahul Satarkar**, Habung yarang. Non Puerperal Uterine Inversion Secondary to Submucosal Fibroid: A Case Report. Journal of Clinical and Diagnostic Research. 2021 Jul, Vol-15(7): QD01-QD03
  3. Nimisha Mohanty, Sunil Jondhale, G.Saurabh, Anil Kumar Goel, **Rahul Satarkar**. Childhood Non Hodgkin Lymphoma masquerading as right atrial myxoma - A case report. Pediatric Hematology Oncology Journal. 2021;6(Supplement):S23.
  4. Kartek M, Jondhale S, Goel AK, **Gupta R**. A case of congenital dyserythropoietic anemia (CDA) type 2 in an adolescent girl: A case report. Pediatric Hematology Oncology.2021;6(4) (Supplement):S37.

## CHAPTER IN BOOK

S. No.	Author(s) of Chapter	Chapter Title	Name of the Editor	Name of the Book	Edition	City of Publication	Publisher	Year of Publication	First page-Last page
1.	Amit Kumar Chowhan & Pawan Kumar G Kale	Challenges in Diagnosing Chordomas	Dr. Hamid Borghei-Razavi, Dr. Mauricio Mandel & Dr. Eric Suero-Molina	Skull Based Tumors	First	London, UK	Intech Open	08.02.2022.	1-21

## PATIENT CARE

	Histopathology	Immunopathology	Cytopathology	Hematology	Clinical Pathology
Total	12063	6507	6447	1,99,722	27,224



## AWARDS, HONOURS AND SIGNIFICANT EVENTS

**Dr. Amit Kumar Chowhan:** Reviewed twelve articles for seven journals (PUBLONS Verified): 1. African Health Sciences (International PubMed Indexed Journal – Reviewed two articles), 2. CNS Oncology (International PubMed Indexed Journal – Reviewed one article), 3. World Journal of Pediatric Surgery (International PubMed Indexed Journal – Reviewed one article), 4. Ethiopian Journal of Health Sciences (International PubMed Indexed Journal – Reviewed one article), 5. Journal of Post Graduate Medicine (International PubMed Indexed Journal – Reviewed one article), 6. Indian Journal of Medical Research (National PubMed Indexed Journal – Reviewed one article), 7. Journal of Clinical & Scientific Research (National Indexed Journal – Reviewed five articles). He Organized Medical Quiz for MBBS students on World Pathology Day (15.11.2021).

**Dr. Vandita Yogendra Singh:** She was Chairperson of Poster Committee at Annual National Conference of Pathologists at the APCON 2021 in December 2021 organised by IAPM. She Chaired Paper Presentations Under non Neoplastic and Neuromuscular Category at AOCN in September 2021 organised by NPSI. She Formulated Quiz for MBBS Students on Pathology Day 2021 organised by Dept. of Pathology AIIMS, Raipur.

**Dr. Rakesh Kumar Gupta:** He was Chairperson in Session on ‘Updates on Prognostic Factors in Breast Carcinoma’ at 4th Annual International Conference of Association for Medical Updates on 12.12.2021 organised by GMCH, Udaipur. He was Judge in Session on ‘Oral Paper Presentations in Pathology’ at the 4th Annual International Conference of Association for Medical Updates on 13.12.2021 organised by GMCH, Udaipur. He was member of Organizing Core Committee & Judge for the Poster Presentation in ‘Breast Pathology’ at the 69th Annual Conference of Indian Association Pathologists and Microbiologists (APCON 2021) organized by PTJNMC, Raipur. He was Organizing Secretary at the CME- Approach to Bleeding Disorders and Electrophoresis with Immunofixation on 01.07.2021 organised by the Department of Pathology, AIIMS

Raipur. He was Panelist; Panel Discussion during Workshop on Immunopathology on 26.11.2021 organised by the Department of CTVS, AIIMS, New Delhi. He got the DNB (Pathology) examination qualification in 2021. He got the Certificate of competency Malaria Microscopy Testing by Swiss Tropical and Public Health Institute, Switzerland. He was external Examiner 2nd MBBS practical university examination at PTJNMC from 7th to 9th Feb 2021. He got the reviewer certificate from APALM journal on 23rd June 2021. He got the Reviewer certificate from IJOS journal on 18th June 2021. He got the Reviewer certificate from International journal of Dermatology 27th Feb 2022. He got the Reviewer certificate from Medical Journal Armed Forces India 2021. He got the reviewer certificate from International journal of Fertility and Sterility on 06.01.2022. He won 3rd prize in oral paper as co-author entitled ‘Role of Textural Parameters in Predicting Histological and Molecular Subtype and Grade of the Tumour in Breast Cancer Patients’ presented by Dr. Rutuja Kote in ANMPICON2021, held by AIIMS, Bhubaneswar, on 18th-19th Sep 2021. He got First prize in Hindi Debate competition, 3rd prize in Hindi Poetry competition, 3rd prize in Spontaneous speech competition, Consolation prize in Hindi questionnaire competition organized by Hindi section AIIMS, Raipur.

**Dr. Ashish Kumar Gupta:** He was a member of Sickle Cell Anemia Committee, AIIMS Raipur. He was member of Organizing Committee for Pre Conference CME in APCON 2021 on 01.12.2021 organised by the Department of Pathology, AIIMS Raipur.

**Dr. Yashita Gupta:** Reviewed paper for the journals: 1. Indian Journal of Pathology and Microbiology, 2. Annals of Pathology and Laboratory Medicine. She is a member of Royal College of Pathologist UK & Indian Society of Renal and Transplant Pathology (Lifetime).

## VISITING SCIENTIST:

Guest lecture on ‘Thyroid C-Cell Proliferations: Reactive and Neoplastic’ by Dr. Niraj Kumari, Professor & Head of Pathology, AIIMS, Raibareli on 23.07.2021.

# Department of Pharmacology

## Professor and Head

Dr. Suryaprakash Dhaneria

## Professor

Dr. Nitin Rewaram Gaikwad

## Additional Professor

Dr. Yogendra Narayanrao Keche

## Assistant Professors

Dr. Alok Singh

Dr. Pugazhenthan T.

## HIGHLIGHTS

In addition to various undergraduate courses such as MBBS, BSc. (Hons) Nursing and other paramedical courses, Department of Pharmacology runs PG Course (MD-Pharmacology) and Super Specialty Course (DM Clinical Pharmacology) with annual intake of four (04) and two (02) seats per annum, respectively. Faculty members are actively involved in research and publications and have undertaken many funded and non-funded research projects. Department is also facilitating undergraduate research and one MBBS student completed ICMR-STC project.

Postgraduate students of the Department have actively participated in various CMEs and Conferences and presented scientific papers. Dr. Jitendra Kumar Mehta, Senior Resident and Ex-Post-Graduate Student, Department of Pharmacology, presented a paper titled "Evaluation of Drug Utilization Pattern of Anti-diabetic Drugs and 10-year Cardiovascular Risk in New and Recently Diagnosed Type 2 Diabetes Mellitus Patients : A Prospective, Longitudinal Observational, Hospital-based Study" at 13<sup>th</sup> Annual Conference of Indian Society for Rational Pharmacotherapeutics (ISRPTCON 2021) held at Indore in November 2021 and received First Prize and Gold Medal.

Department of Pharmacology is one of the ADR Monitoring Center under Pharmacovigilance Program of India. The Department is actively involved in Pharmacovigilance activities and reported ADR cases related to the drugs under investigations for COVID – 19 and AEFI cases related to COVID vaccines. Department celebrated the National Pharmacovigilance Week from

17 to 23.09.2021. Under this activity, the Department conducted various activities such as awareness program for Healthcare Professionals, General Public and Poster Presentations. Patients and their relatives visiting the hospital were informed about consumer form for ADR Reporting and also about ADR PvPI mobile app.

## EDUCATION

Undergraduate teaching (MBBS and Nursing) is a regular academic activity of the Department. The department introduced innovative teaching methods like making and presenting Poster Presentation, Home Assignment, Small Group Discussion, which facilitate self-directed learning among students. During year 2021-22, the first batch of new MBBS Curriculum (MBBS 2019 batch) was imparted teaching, training and assessment as per new Curriculum.

During 2021-22, two (02) Post-Graduate Students passed their Final MD (Pharmacology) Examination and the result was 100%. Eight (08) Second Year MBBS students and 12 Second Year B. Sc. (Hons) Nursing students secured distinction in Pharmacology in their respective final examinations held during 2021-22. The passing percentage in MBBS 2<sup>nd</sup> Professional Examination held in February 2022 and B. Sc. (Hons.) Nursing 2<sup>nd</sup> Year Final Examination held in October 2021 were 99% and 100%, respectively. The Passing percentage was 100% in B. Sc. - MLT (Batch – 2020), B. Sc. – O.T. Technology (Batch – 2019 and Pre-Hospital Trauma Technician (Batch – 2020).

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

Dr. S. P. Dhaneria

S. No.	Title	CME/Conference	Date	Organised By
1.	Study Designs (including Clinical trials)	Workshop on “Good Clinical Practice and Ethical Issues in Research Involving Human Subjects”	09.06.2021 to 10.06.2021	Shri Balaji Institute of Medical Sciences, Raipur
2.	Ethical and Legal Aspect of Human experimentation			
3.	Artificial Intelligence: Role in Pharmacology	CME on Artificial Intelligence	03.07.2021	Department of Orthopedics, AIIMS, Raipur
4.	Pharmacovigilance in Special Population (Pediatric, Geriatric And Pregnant Women)	National Webinar: Drug Safety and Pharmacovigilance	21.09.2021	Department of Pharmacology, IGGMC, Nagpur.
5.	Rational use of antimicrobial agents	CME on A Step towards Antibiotic Stewardship	22.09.2021	Antimicrobial Stewardship Committee, AIIMS, Raipur
6.	Drugs Tried in Management of COVID-19	National Hybrid CME on COVID-19: Human Resilience, Innovation & Hope	23.10.2021	Department of Microbiology, AIIMS, Raipur
7.	Study Designs (including Clinical trials)	Workshop on “Good Clinical Practice and Ethical Issues in Research Involving Human Subjects”	18.11.2021	Guru Ghasidas Vishwavidyalaya, Bilaspur
8.	Ethical and Legal Aspect of Human experimentation			
9.	Lessons learnt from COVID-19 illness	ISRPTCon - 13th Annual Conference of ISRPT	26.11.2021	Sri Aurobindo Institute of Medical Science, Indore
10.	Ethics and Biomedical Research	Online workshop on Basic Research Methodology Program for Faculty Members of AIIMS, Raipur	10.12.2021	Research Orientation Program Sub-Committee, Institute Research Cell, AIIMS, Raipur
11.	Study Designs (including Clinical trials)	Workshop on “Good Clinical Practice and Ethical Issues in Research Involving Human Subjects”	22.01.2022	Sickle Cell Institute, Raipur
12.	Ethical and Legal Aspect of Human experimentation			
13.	Study Designs (including Clinical trials)	Workshop on “Good Clinical Practice and Ethical Issues in Research Involving Human Subjects”	22.01.2022	Mansarovar Dental College, Bhopal
14.	Ethical and Legal Aspect of Human experimentation			

**Dr. Nitin Rewaram Gaikwad**

S. No.	Title	CME/Conference	Date	Organised By
1.	Ethics Committee – Roles and Responsibilities	Workshop on “Good Clinical Practice and Ethical Issues in Research Involving Human Subjects”	09.06.2021 to 10.06.2021	Shri Balaji Institute of Medical Sciences, Raipur
2.	Informed Consent Documents			
3.	Development of antibiotic policy and its implementation	CME on A Step towards Antibiotic Stewardship	22.09.2021	Antimicrobial Stewardship Committee, AIIMS, Raipur
4.	Ethics Committee – Roles and Responsibilities	Workshop on “Good Clinical Practice and Ethical Issues in Research Involving Human Subjects”	18.11.2021	Guru Ghasidas Vishwavidyalaya, Bilaspur
5.	Informed Consent Documents			
6.	Literature search	Online workshop on Basic Research Methodology Program for Faculty Members of AIIMS, Raipur	10.12.2021	Research Orientation Program Sub-Committee, Institute Research Cell, AIIMS, Raipur
7.	Analytical study designs			
8.	Informed Consent Form			
9.	Ethics Committee – Roles and Responsibilities	Workshop on “Good Clinical Practice and Ethical Issues in Research Involving Human Subjects”	22.01.2022	Sickle Cell Institute, Raipur
10.	Informed Consent Documents			
11.	Ethics Committee – Roles and Responsibilities	Workshop on “Good Clinical Practice and Ethical Issues in Research Involving Human Subjects”	22.01.2022	Mansarovar Dental College, Bhopal
12.	Informed Consent Documents			
13.	Safe use of Opioids	First Foundation training program in Pain and Palliative Care for Medical Officers and nurses of Chhattisgarh	23.03.2022	Department of Medical Oncology and Department of Anaesthesiology under National Program for Palliative Care (NPPC) in Association with Indian Association of Palliative Care (IAPC)

**Dr. Yogendra Narayanrao Keche**

S. No.	Title	CME/Conference	Date	Organised By
1.	‘Case Record form’ and ‘Good Clinical Practice’	Workshop on “Good Clinical Practice and Ethical Issues in Research Involving Human Subjects”	09.06.2021 to 10.06.2021	Shri Balaji Institute of Medical Sciences, Raipur
2.	‘Case Record form’ and ‘Investigator’s Responsibilities’	Workshop on “Good Clinical Practice and Ethical Issues in Research Involving Human Subjects”	18.11.2021	Guru Ghasidas Vishwavidyalaya, Bilaspur
3.	‘Case Record form’ and ‘Investigator’s Responsibilities’	Workshop on “Good Clinical Practice and Ethical Issues in Research Involving Human Subjects”	22.01.2022	Sickle Cell Institute, Raipur
4.	‘Case Record form’ and ‘Investigator’s Responsibilities’	Workshop on “Good Clinical Practice and Ethical Issues in Research Involving Human Subjects”	22.01.2022	Mansarovar Dental College, Bhopal

**Dr. Pugazhenthan T.**

S. No.	Title	CME / Conference	Date	Organized By
1.	Antibiotic resistance amid covid -19 pandemic –vigilance needed	CME	04.09.2021	Vinayaka mission university
2.	Immunomodulators	Guest Lectures	27.10.2021	Chettinad academy of research and education, Chennai
3.	Research mind: Earlier infusion into the health care youth for the betterment of society	CME	04.01.2022	JSA medical college for siddha and research center ulundurpet
4.	Research in health need of integrated approach “call for the youth”	Guest Lectures	06.01.2022	Sivaraj siddha medical college
5.	Ask the experts on care of oncology	Webinar CME	04.02.2022	Thirumoolar siddha care cure center
6.	Medical record in clinical research	MEDRECON2022	11.03.2022 to 12.03.2022	Department of Central Medical Record AIIMS Raipur
7.	Management of stroke	Training for Medical Officer on Stroke Protocol under NPCDCS	11.03.2022 & 16.03.2022	Chhattisgarh state
8.	Practical aspects involved in Handling strong Opioids	Training Program in Pain & Palliative Care for Medical Officers and Staff Nurses of Chhattisgarh	21.03.2022 to 25.03.2022	Department of palliative medicine
9.	Academic clinical trial	CME	25.03.2022	CLRNET

**ORAL PAPERS/POSTERS PRESENTED**

S. No.	Authors	Title	Conference	Date	Organised By
1.	Keche YN, Gaikwad NR, Dhaneria SP, Wasnik Preetam N, Nagpure Keshao, Siddiqui MS	Usefulness of STOPP /START Criteria and Beers Criteria for prescribing in geriatric patients in a tertiary health care Center, Raipur, Central India	Indian Society for Rational Pharmacotherapeutics (ISRPTCON 2021)	25.11.2021 to 27.11.2021	Sri Aurobindo Medical College and PG Institute, Indore (M.P.)
2.	Thangaraju Pugazhenthan, Katriya Vikas, Chandu Himanshu Nirmal	Scientometric analysis of research publications in clinical pharmacology in doping and anti-doping	Sports medicine and Yoga Therapy	28.01.22 to 29.01.22	Sree Balaji medical college & hospital (SBMCH), Chennai
3.	Mehta JK, Dhaneria SP, Gaikwad NR, Keche YN, Wasnik PN, Siddiqui MS	Evaluation of Drug Utilization Pattern of Anti-diabetic Drugs and 10-year Cardiovascular Risk in New and Recently Diagnosed Type 2 Diabetes Mellitus Patients : A Prospective, Longitudinal Observational, Hospital-based Study	ISRPTCON 21 13 <sup>th</sup> Annual Conference - Indian Society for Rational Pharmacotherapeutics 2021	25.11.2021 to 27.11.2021	SIAMS (Sri Aurobindo Institute of Medical Sciences)

S. No.	Authors	Title	Conference	Date	Organised By
4.	Sheth Pranav, Dhaneria SP, Keche YN, Gaikwad NR, Dutta Tridip	Surgical antimicrobial prophylaxis in patients undergoing clean and clean-contaminated surgery: Adherence to ICMR guidelines and its impact on surgical site infection rate – A prospective observational follow-up study	13 <sup>th</sup> Annual conference Indian society for rational Pharmacotherapeutics (ISRPTCON 2021)	25.11.2021 to 27.11.2021	Indian society for rational pharmacotherapeutics and Sri Aurobindo Medical college, Indore, MP
5.	Gollayala Srikanth Goud, Gaikwad NR, Nagpure Keshao, Das Padma, Gaikwad Ujjwala Nitin, Dhaneria SP, Keche YN	Impact of Escalation, De-Escalation and Continuation of Empirical Antimicrobial Therapy on Mortality in Patients with Sepsis admitted in High Dependency Unit of a Tertiary Care Hospital	13 <sup>th</sup> Annual conference Indian society for rational pharmacotherapeutics (ISRPTCON 2021)	25.11.2021 to 27.11.2021	Indian society for rational pharmacotherapeutics and Sri Aurobindo Medical college, Indore, MP
6.	Mahesh Kumar. B, Dhaneria SP, Kannauje Pankaj, Singh Alok.	Evaluation of effectiveness and safety of first line drugs in the treatment of peripheral neuropathy among elderly population – A randomized, open label, active comparator pilot study	Indian Society for Rational Pharmacotherapeutics (ISRPT-2021)	26.11.2021	Sri Aurobindo Institute of Medical Sciences, Indore
7.	Yazhini.R Keche YN, Gaikwad NR, Dhaneria SP, Sravana Swathi	Adverse Drug Reactions Profile Of Investigational Drugs Used For Covid-19 In A Tertiary Care Teaching Hospital Of Raipur District	13 <sup>th</sup> Annual International conference, Indian Society for Rational Pharmacotherapeutics, 2021	26.11.2021	Department of Pharmacology, Sri Aurobindo Medical College & P.G Institute, Sri Aurobindo University, Indore, (M.P)
8.	Hemasri V Keche YN, Gaikwad NR, Dhaneria SP	A Profile of Reported Adverse Drug Reactions during COVID-19 pandemic in a tertiary care teaching hospital of Raipur district – Oral Presentation	13 <sup>th</sup> Annual Conference of Indian Society for Rational Pharmacotherapeutics in 'Newer Challenges and Therapies in COVID-19': Taking a Step Ahead	27.11.2021	Sri Aurobindo Medical College & P.G. Institute, Sri Aurobindo University, Indore (M.P)

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	Effect of CYP2C19 and P2Y12 genetic polymorphisms on platelet aggregation in patients on treatment with clopidogrel in Chhattisgarh Population	Pugazhenthana T	CGcost	2	2021-2022	5,00,000/-

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
2.	A prospective, multi-centric, open-labeled, phase-IV study to assess safety and efficacy of LYFAQUIN™ (centhaquine citrate) as a resuscitative agent for hypovolemic shock to be used as an adjuvant to standard treatment of shock	Pugazhenthath T	Pharma industry	2	2021-ongoing till sample reaches	17,00,000/-
3.	Efficacy of sulfonyleurea's in patients with polymorphism in KCNJ11-ABCC8 genetic locus: A prospective cohort study in Chhattisgarh Type 2 Diabetic Mellitus patients.	Pugazhenthath T	AIIMS RAIPUR	1	2021-22	5,00,000/-
4.	Prophylaxis for Patients at risk of COVID-19 infection (PROTECT-V)	Vinay Rathore Co PI Pugazhenthath T	Pharma industry NIH	1	2022-23	-

### Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	Allele and genotype frequency of <i>CYP2C19</i> in central Indian population (Chhattisgarh)	Pugazhenthath T	AIIMS RAIPUR	1	2020-21	4,00,000/-

### Departmental Projects – Non-Funded Projects/ ICMR-STC Projects/ Thesis/Dissertations

#### Ongoing

S. No.	Project/Thesis
1.	The Profile of Use of Rituximab In A Tertiary Care Hospital of Central India.
2.	Assessment of Potential Drug-Drug Interactions And Its Associated Factors Among Inpatients Admitted in Department Of Cardiology: A Retrospective Study
3.	Evaluation of Effectiveness And Safety of First Line Drugs Used In The Treatment of Peripheral Neuropathy Among Elderly Population – A Randomized, Open-Label, Active Comparator Pilot Study.
4.	Retrospective analysis on the use of Amphotericin B of any form and posaconazole in COVID 19 Associated Mucormycosis (CAM) at times of pandemic disaster – A situational analysis of a single center and review of international guidelines.
5.	Additional usage of Remdesivir with standard of care in patients with moderate and severe COVID-19: A Tertiary hospitals experience
6.	The effect of various corticosteroids in the hospitalized patients with moderate and severe COVID-19: A Tertiary hospitals experience.
7.	Repurposing Tenofovir, Emtricitabine and Lamivudine for possible antileprotic activities
8.	Utility of offline and online tools to detect inappropriate prescription in elderly population in a tertiary care teaching hospital, Raipur, Chhattisgarh, India – A retrospective analysis
9.	The Effect of Various Corticosteroids in the Hospitalized patients with Moderate and Severe COVID-19 : A Tertiary Hospital Experience

S. No.	Project/Thesis
10.	Efficacy of two doses of vitamin B 12 supplementation on glycemic control in poorly controlled type 2 diabetic patients with hyperhomocysteinemia
11.	Antibiotic use pattern and clinical outcome in Paediatric patients of the age group 1-14 Years with Community Acquired Pneumonia admitted at a tertiary care teaching hospital of Central India: A Descriptive Longitudinal Study
12.	Surgical antimicrobial prophylaxis in patients undergoing clean and clean-contaminated surgery: Adherence to ICMR guidelines and its impact on surgical site infection rate – A prospective observational follow-up study
13.	Impact of Escalation, De-Escalation and Continuation of Empirical Antimicrobial Therapy on Mortality in Patients with Sepsis admitted in High Dependency Unit of a Tertiary Care Hospital

### Completed

S. No.	Project
1.	Anosmia in COVID
2.	Syndrome complex in COVID
3.	Artificial Intelligence Registry based Audit
4.	Repurposing thalidomide its analogue and apremilast for possible antiviral in situation of severe covid Cytokine syndrome
5.	Antimicrobial used for surgical prophylaxis in tertiary care teaching hospital in Raipur district – A retrospective analysis
6.	Active Surveillance of Antimicrobial Use in Paediatric Intensive Care Unit (PICU) of a Tertiary Care Teaching Hospital in Raipur
7.	Spectrum of autonomic dysfunction in RTPCR positive post COVID-19 patients in central India
8.	Identifying the spectrum of persistent post covid symptoms and their duration in central India
9.	Assessment of Potential Drug-Drug Interactions and its associated factors among Inpatients admitted in Department of Cardiology: A Retrospective Study.

### Collaborative Projects

#### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Mapping the genetic allele polymorphism of Drug Metabolizing Enzymes (DMEs) in Indian population with prospective Pharmacogenomics application.	Amity University, Raipur Chhattisgarh

#### Completed

S. No.	Project	Collaborating Department/Institution
1.	Reinfection with Severe Acute Respiratory Syndrome Coronavirus-2 (SARSCoV-2) among healthcare workers in India	General Medicine ,AIIMS Raipur



## PUBLICATIONS

1. **Keche Y, Gaikwad N, Dhaneria S.** Preventability, predictability, severity and causality assessment of adverse drug reactions reported from a teaching hospital in Chhattisgarh: A retrospective analysis. *J Family Med Prim Care* 2021;10:2541-5.
2. Mehta JK , **Dhaneria SP, Gaikwad NR, Keche YN, Wasnik PN, Siddiqui MS.** Evaluation of drug utilization pattern of anti-diabetic drugs and 10 – year cardiovascular risk in new and recently diagnosed type 2 diabetes mellitus patients: a prospective, longitudinal, observational, hospital-based study –*Int J Diabetes Dev Ctries* 2022. doi.org/10.1007/s13410-022-01049-4
3. Balasundaram MK, **Singh A.** Viloxazine for attention-deficit hyperactivity disorder: a new formulation for a new indication. *Drugs Ther Perspect.* 2022; 38: 77–83.
4. **Singh A.** Cenobamate for treatment-resistant focal seizures: current evidence and place in therapy. *Journal of Central Nervous System Disease.* January 2022. doi:10.1177/11795735211070209
5. Gupta D, **Dhaneria S, Singh A.** New Gepants Against Acute Migraine: A Systematic Review and Network Meta-analysis. *Amrita J Med.* 2021;17:109-15.
6. Balasundaram MK, Sheth PG, **Singh A.** Serum Calprotectin: A Marker for early Diagnosis of Diabetic Peripheral Neuropathy. *J Family Med Prim Care* 2021;10:4324-5.
7. **Singh A.** Targeting Calcitonin Gene Related Peptide (CGRP) in Prevention of Migraine: Is it Effective? *Neurol India.* 2022;70:433-4.
8. **Singh A, Sheth PG, Dhaneria S, Gupta D.** Efficacy and safety of ivermectin for COVID-19: A systematic review and meta-analysis. *Asian Pac J Trop Med* 2021; 14(10): 440-450.
9. **Singh A, Gupta D, Dhaneria S, Sheth PG.** Istradefylline Versus Opicapone for “Off” Episodes in Parkinson’s Disease: A Systematic Review and Meta-Analysis. *Annals of Neurosciences.* 2021;28(1-2):65-73.
10. **Singh A, Sahoo AK, Dhaneria S, Gupta D.** The outlook of doctors towards telemedicine: A cross-sectional study of knowledge, awareness, and attitude in central India. *J Family Med Prim Care* 2021;10:3617-24.
11. **Singh A, Sahoo AK, Dhaneria SP, Thangaraju P, Gupta D.** Evaluation of Anti-microbial usage using WHO-ATC Methodology in Tertiary-care Teaching Hospital of Central India: A Cross-Sectional Study. *Arch Med Health Sci.* 2021; 9:181-5.
12. Kumar B, Gupta D, **Singh A.** The Impact of Aneurysmal Subarachnoid Hemorrhage on Blood Brain Barrier Permeability: What we learnt? *Neurol India.* 2021; 69:753-4.
13. Gupta P, **Singh A, Gupta RK.** Pacinian Corpuscles in Pancreas: Possible Clinical Implications. *Pancreas.* 2021;50(6):e56-e57.
14. **Singh A, Gupta D, Singh A.** Ditans vs Gepants: A Systematic Review and Indirect Network Meta-analysis for Comparative Analysis of Efficacy and Safety. *Neurol India.* 2021;69:S43-50
15. **Thangaraju P, B AK, Venkatesan S.** Vigilance in selection of low-dose versus high-dose steroids in COVID-19. *Int J Infect Dis.* 2021;109:54-55. doi: 10.1016/j.ijid.2021.06.020. Epub 2021 Jun 15. PMID: 34139368; PMCID: PMC8277292.
16. Sri Hari TY, Sree Sudha TY, Varghese AM, Krishna Sasanka KSBS, **Thangaraju P.** A study of risk factors and complications in elderly hypertensive subjects. *J Family Med Prim Care.* 2021;10(6):2230-2234. doi:10.4103/jfmpc.jfmpc\_1959\_20
17. **Thangaraju P, Varthya SB, Venkatesan S.** Fixed-dose combinations: An essential for rational preparation. *Indian J Pharmacol.* 2021 Mar-Apr;53(2):170-172. doi: 10.4103/ijp.IJP\_133\_19. PMID: 34100402; PMCID: PMC8265415.
18. Arora RD, Nagarkar NM, Sasanka KSBSK, **Thangaraju P, Mehta R, Satpute SS, Chakravarty S, Keche A, Aggarwal A, Sudha TS.** Epidemic

- in pandemic: Fungal sinusitis in COVID-19. *J Family Med Prim Care*. 2022 Feb;11(2):807-811. doi: 10.4103/jfmpc.jfmpc\_1352\_21. Epub 2022 Feb 16. PMID: 35360777; PMCID: PMC8963616.
19. Saritha CVN, Sudha TYS, Rao GVR, Sasanka KSBSK, **Thangaraju P**. A comparative study on psychiatric morbidity among elderly population residing in old-age homes and community. *J Family Med Prim Care*. 2022;11(1):53-59. doi:10.4103/jfmpc.jfmpc\_2578\_20
20. Latha SL, Priscilla T, Sudha TY S, Saritha C, Alimchandani A, **Thangaraju P**. Estimation of Prevalence and Comparing the Levels of Stress, Anxiety, Depression, and Psychological Impact Before and After COVID-19 Lockdown Among Front Line Health Care Workers. *Journal of Patient Experience*. January 2022. doi:10.1177/237437352111069805
21. **Thangaraju, Pugazhenthan;** Velmurugan, Hemasri Does Remdesivir maintain the race in the general treatment protocol of COVID-19?, *Journal of Family Medicine and Primary Care*: December 2021 - Volume 10 - Issue 12 - p 4621-4622 doi: 10.4103/jfmpc.jfmpc\_1552\_21
22. Mehta R, Nagarkar NM, Jindal A, et al. Multidisciplinary Management of COVID-Associated Mucormycosis Syndemic in India [published online ahead of print, 2021 Oct 6]. *Indian J Surg*. 2021;1-9. doi:10.1007/s12262-021-03134-0
23. Jayamani J, **Thangaraju P**, Huchegowda S. COVID-19 pandemic and quick evolution of telemedicine: A gap analysis. *Healthcare in Low-resource Settings*. 2022 Mar 17;10(1).
24. Ty SH, Ty SS, Sasanka Ksbs K, **Thangaraju P**. DO METHYLENE BLUE SATISFIES AN OPTION - IN COVID-19 ARDS. *Infect Disord Drug Targets*. 2022 Mar 17. doi: 10.2174/1871526522666220317155947. Epub ahead of print. PMID: 35301956.
25. Ingle AS, Kashyap NK, Trivedi S, Choudhary R, Suryavanshi G, **Thangaraju P**, Bagale KR. Assessment of Body Fat Percentage Using B-Mode Ultrasound Technique versus Skinfold Caliper in Obese Healthy Volunteers. *Cureus*. 2022 Mar 9;14(3):e22993. doi: 10.7759/cureus.22993. PMID: 35415052; PMCID: PMC8992878.
26. **Thangaraju P**, Sudha Ty S, Pasala PK, Hari Ty S, Venkatesan S, Thangaraju E. The Role of Justicia adhatoda as Prophylaxis for COVID-19 - Analysis Based on Docking. *Infect Disord Drug Targets*. 2021;21(8):e160921190441. doi: 10.2174/1871526521666210119120643. PMID: 33463480.
27. Bagde MN, Bagde NKD, Hussain N, **Thangaraju P**. A review and case report of enigmatic superficial endometrial spread of cancer of the uterine cervix: Need for vigilance in the primary care setting. *J Family Med Prim Care*. 2021;10(9):3505-3510. doi:10.4103/jfmpc.jfmpc\_39\_21
28. Ayyanna C, Mounika B, Sudha STY, **Pugazhenthan Thangaraju**. Assessment of Hepatoprotective and Antioxidant Activities of Ethanolic Extract of Tephrosia villosa in Albino Rats. *J Young Pharm*. 2021;13(3):229-34

## Chapter(s) in Books

S. No.	Author (s)	Chapter Title	Editor	Book	Edition	City of Publication	Publisher	Year of Publication	First page - Last page
1.	Pugazhenthan Thangaraju, Pankaj Kumar Kannauje and Meenalotchini Prakash Gurnthal-ingam	Adverse Drug Reactions of NSAIDs	Pugazhenthan Thangaraju	A Pharmacological Guide To Non-Steroidal Anti- Inflammatory Medications	1	New york	Nova	2021	41-70

S. No.	Author (s)	Chapter Title	Editor	Book	Edition	City of Publication	Publisher	Year of Publication	First page - Last page
2.	R. S. Ray, A. R. Vijayakumar, Pugazhenthana Thangaraju and N. Delhiraj	Fixed Dose Combinations (FDCs) of NSAIDs	Pugazhenthana Thangaraju	A Pharmacological Guide To Non-Steroidal Anti- Inflammatory Medications	1	New york	nova	2021	71-130
3.	Pugazhenthana Thangaraju, Pankaj Kumar Kannauje and Nanditha Venkatesan	NSAIDs and the Aged: Are We Being Frivolous about the Frail?	Pugazhenthana Thangaraju	A Pharmacological Guide To Non-Steroidal Anti-Inflammatory Medications	1	New york	nova	2021	157-172
4.	Pugazhenthana Thangaraju, Jondhale Sunil Natha and Mahesh Kumar	NSAIDs in the Paediatric Population	Pugazhenthana Thangaraju	A Pharmacological Guide To Non-Steroidal Anti-Inflammatory Medications	1	New york	nova	2021	173-198

### Edited Book and Monograph

#### Book

S. No.	Author (s)	Chapter Title	Editor	Book	Edition	City of Publication	Publisher	Year of Publication	First page - Last page
1.	Pranav Sheth, Nitin Gaikwad, S. P. Dhaneria	Pharmacological Aspects of Rhinosporidosis	Dr. Nitin M. Nagarkar, Dr. Rupa Mehta	Rhinosporidosis	1	E-Book Springer Singapore	Springer	2022	83-90

## PATIENT CARE

- Department of Pharmacology, AMC under PvPI, is actively collecting the ADR reports from OPD and IPD of AIIMS Raipur. These reports are analyzed by Faculty Members of Department of Pharmacology for its causality assessment. The data of these ADR reports is submitted to IPC Ghaziabad, National Coordinating Centre for PvPI, through Vigiflow software. This data is further integrated with WHO-Uppsala ADR Monitoring Centre Sweden.
- Total No. of ADRs reported from our centre to National Coordinating Centre (April 2021 to March 2022): Number of ICSRs sent to PvPI – 227 and Number of AEFI with Covishield and Covaxin sent to PvPI – 59.

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Dr. S. P. Dhaneria

- Panelist in 19<sup>th</sup> Signal Review Panel (SRP) of PvPI organized by Indian Pharmacopoeia Commission held at 25.10.2021

### Dr. Nitin Rewaram Gaikwad

- Chairperson in National Hybrid CME on COVID-19: Human Resilience, Innovation & Hope organized by Department of Microbiology, AIIMS, Raipur on 23.10.2021
- Moderator in Scientific session on Clinical trial protocol, IB and Essential documents in the National Online Workshop Good Clinical Practice (GCP) organized by National Association of

Pharmacology and Therapeutics in association with All India Institute of Medical Sciences, Nagpur on 10.03.2022.

3. Member of British Society for Antimicrobial Chemotherapy (Membership No. P0002106)

### Dr. Yogendra Narayanrao Keche

1. FSASS (Fellow Scholars Academic and Scientific Society) - Membership ID No.SAS/FSASS/379/2021

### Dr. Pugazhenthan T.

1. Obtained copyright from Government of India: Home available Edible Materials as an Effective Tool for using Polypharmacy Drugs by Rural People: Need of a Prototype- I-112848/2022
2. Obtained copyright from Government of India: ISCA-R "Indian Smell Test in COVID by AIIMS Raipur"-L-105766/2021
3. Obtained copyright from Government of India:

COSANAR - (Corona Scale on Anosmia AIIMS Raipur)- L-104009/2021

4. Obtained copyright from Government of India: Modified PUGAZAIIMS Steroid Regimine for Lepra Reaction-Time to Revisit -L-103557/2021
5. Outstanding scientist Award 2021, by international scientist awards on engineering, science and medicine 21&22 May 2021, Chennai India by VDGGOOD
6. Proud Indian innovative teacher award 2022 in infectious disease by IMRF 26-01-2022.

### VISITING SCIENTIST(S)

- Dr. V. M. Motghare, Professor and Head, Department of Pharmacology, Government Medical College, Nagpur, Maharashtra.
- Dr. Samir Malhotra, Professor and Head, Department of Pharmacology, PGIMER, Chandigarh.

# Department of Physical Medicine and Rehabilitation

## Assistant Professors

Dr. Jaydeep Nandi (Head)

Dr. Raunak Kumar

## HIGHLIGHTS

Many patients suffering from musculoskeletal problems or neurological issues were given relief through USG guided procedures. NCV Tests are being done as per request from various referring Departments. The Prosthesis Orthosis Workshop (which is a first amongst newer AIIMS) fabricated 41 prosthesis-orthosis. The IPD care re-started in December 2021 after a brief COVID interruption. The PMR Department also ran two special clinics viz: Amputation clinic and Paralysis clinic with the help of its physiotherapy, occupational therapy and orthotic support.

The Department organized a National CME on

“Brain Injury Rehabilitation: Recent Advances” on 12<sup>th</sup> March 2022. The program was preceded by formal inauguration of the 10 bedded PMR ward by Director Prof. Nitin M Nagarkar. An unique 25 paged ‘Brain Power Vignettes’ calendar was distributed to delegates on the occasion.

MD(PMR) course was started in September 2021 with annual intake of 2 making it the second Institute in Central India to start MD-PMR course.

## EDUCATION

Every effort was taken to improve rehabilitation orientation and training of MBBS and BSc Nursing and 4 classes for both course students were organized.

## CMEs/WORKSHOP/SYMPOSIUM/NATIONAL & INTERNATIONAL CONFERENCES

S. No.	Title	CME/Conference	Date	Organised By
1.	Brain Injury Rehabilitation- Recent Advances	CME (National Level)	12.03.2022	Department of PMR, AIIMS Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Jaydeep Nandi

S. No.	Title	CME/Conference	Date	Organised By
1.	Peripheral Nerve Injury Rehabilitation	CME on Peripheral Nerve Injury	15.07.2021	Plastic Surgery Department AIIMS Raipur
2.	Material Science of Orthoses Making	CME on Foot and Ankle	22.08.2021	Orthopedics Department AIIMS Raipur
3.	Speech Rehabilitation in Brain Injury Settings	IAPMR Midterm Conference 2021	25.09.2021	Indian Association of PMR

S. No.	Title	CME/Conference	Date	Organised By
4.	Common Cognitive Issues after Stroke	CRE Workshop	06.12.2021	CRE program by CRC Rajnandgaon (under Ministry of Social Justice and Empowerment Government of India)
5.	NCV in Nerve Injuries: Facts and Fallacies	IAPMR Golden Jubilee National Conference 2022	25.03.2022	Indian Association of PMR

### Dr. Raunak Kumar

S. No.	Title	CME/Conference	Date	Organised By
1.	Gait – Basic and Analysis	CME on foot and ankle	21.08.2021	Department of Orthopaedics, AIIMS Raipur
2.	Rehabilitation Issues in Chronic Pain- PMR Approach	Pain and palliative care orientation programme	23.03.2022	Department of Medical Oncology/ Anaesthesiology and Pain Palliative Department AIIMS Raipur

## POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Nandi J	High Dependency Unit Pulmonary Rehabilitation: a visual monograph	4th ASIA OCEANIAN CONGRESS on Neuro Rehabilitation 2021	07.08.2021	World Federation of Neuro Rehabilitation (WFNR)
2.	Shukla j, Nandi J	ICU acquired weakness (CIP/CIN) in Post Covid patients and our experience in doing NCV in them.	4th ASIA OCEANIAN CONGRESS on Neuro Rehabilitation 2021	07.08.2021	World Federation of Neuro Rehabilitation (WFNR)
3.	Sengupta M, Nandi J	Prospective analysis of pre-treatment quality of life, presenteeism and emotional health due to chronic neck pain in homemakers- An Indian Tertiary Care Hospital perspective	4th ASIA OCEANIAN CONGRESS on Neuro Rehabilitation 2021	07.08.2021	World Federation of Neuro Rehabilitation (WFNR)

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	Effect of Caudal Epidural Steroid Injection on Electrodiagnostic Parameters in Patients with Lumbosacral: A Double Blinded Randomized Controlled Trial	Dr. Jaydeep Nandi	AIIMS, Raipur	12 months	2021-2022	2,75,000

## Departmental Projects – Non-Funded Projects/ ICMR-STC Projects/ Thesis/Dissertations

### Ongoing

S. No.	Non Funded Project
1.	Factors Determining the Efficacy of Guided Intervention Based Management of Shoulder Adhesive Capsulitis Secondary to Breast Cancer Treatment: A Retrospective Analysis.

### Completed

S. No.	Non Funded Project
1.	Disability following COVID – 19: A Cross Sectional Study

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Prevalence of Peripheral Neuropathy in Patients of Hyperthyroidism- A Cross Sectional Study	Dept of General Medicine

### Completed

S. No.	Project	Collaborating Department/Institution
1.	Nutritional Status of Children With Cerebral Palsy at a Tertiary Care Hospital	Dept. of Pediatrics

## PATIENT CARE

	OPD	IPD	USG guided pain and nerve block procedures	NCV analysis	Paralysis Clinic	Amputation Clinic	PO Workshop total fabricated products	Occupational Therapy Service
Total	14,641 (monthly average 1220)	33	408 (monthly average 34)	283 (monthly average 23.58)	396	37	41	995

## VISITING SCIENTIST(S)

On 12<sup>th</sup> March 2022 the following Scientists visited our Department and were present during PMR Ward Inauguration:

1. Professor Dr. S L Yadav, PMR Department, AIIMS NEW DELHI.
2. Professor Dr. Anil Kumar Gupta, HoD, Department of PMR, KGMU LUCKNOW, U.P.
3. Professor Dr. Anupam Gupta, HoD, Department

of Neurorehabilitation, NIMHANS Bangalore and Course conductor of only Neurorehabilitation PDF of India.

4. Dr. Abhishek Srivastava, HoD, Department of PMR, Kokilaben Hospital Mumbai and Gen Secretary of Indian Federation of Neurorehabilitation)
5. Dr. Koustabh Chakrabarty, Neurorehabilitation Consultant at Peerless Hospital Kolkata.
6. Dr. Navin BP, Assistant Professor, Department of Neurorehabilitation NIMHANS Bangalore.

# Department Of Physiology

## Professor & Head

Dr. Ramanjan Sinha

## Professors

Dr. Meenakshi Sinha

Dr. Avinash S. Ingle

## Additional Professors

Dr. Ekta Khandelwal

Dr. Jayshri R. Ghate

## Assistant Professors

Dr. Arunita T. Jagzape

Dr. Dipali K. Chatur

## HIGHLIGHTS

The department has been conducting teaching activities for several courses which includes MD, MBBS, BSc Nursing, BMLT and OTT. Besides, two students are pursuing their research work towards obtaining PhD degree with departmental faculty as guide. The faculty are represented in several posts/ committees of AIIMS, Raipur including Associate Dean (Research), Medical Education Unit, Telemedicine, library, animal house, recruitment and purchase. In research, the department organized an online International Symposium on updated aspects of Chronomedicine which was attended by more than 800 delegates from 7 countries. Further, a national symposium was organized online by the department highlighting different aspects of sports medicine including physiology and related injuries. The faculty provided resource at various International and National scientific events which include International Brain Research Organization (IBRO), World Congress of Chronomedicine, Singapore heart Foundation, World Sleep Research Society, American Autonomic Society and National Associations such as APPI, ASSOPI & ISSEM. Besides, the department is currently conducting 13 research projects and 11

thesis/dissertation work, in collaboration with several clinical and preclinical departments from within and outside AIIMS, Raipur. Also, a fair amount of research has been done on COVID-19 related issues including a copyright. The research included both medical education and scientific knowhow as reflected in wide range of national and international publications. Besides, patient care activities included regular reporting of 149 patients referred to Autonomic & Vascular Function Laboratory, occasionally referred patients for NCV-EMG, setting up of Cardio-pulmonary Exercise Testing Laboratory at AIIMS Hospital and 44 postings of faculty and residents for screening and ward duty during covid times involving 290 hours approximately.

## EDUCATION

**Innovative Educational Activities:** Online software based simulated animal experiments were demonstrated to the MBBS Students and assessments were held using Google Classroom and FCC softwares. Students were made aware of COVID-19 precautions through innovative SHEILD poster. They were taught lessons on “Anemia” through the novel Game based tool for better in-depth perception of the topic.



**Short Term Training / Resource Faculty:**

- Orientation for faculty and PG students at AIIMS, Raipur on conduction of research and proposal planning, ECG in emergency, triages in medical practice.

- Orientation for faculty and PG students at AIIMS, Raipur on conduction of research and proposal planning, ECG in emergency, triages in medical practice.

**CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES**

S. No.	Title	CME/Conference	Date	Organised By
1.	International Symposium on Chronomedicine: Relevance during COVID time	International Symposium	18.09.2021	Department of Physiology, AIIMS Raipur, in association with ASSOPI and Indian Society of Chronomedicine
2.	National CME on Exercise & Lifestyle Medicine: an odyssey from basics to intervention	National CME	30.11.2021	Department of Physiology, AIIMS Raipur in collaboration with Indian Society of Sports & Exercise Medicine

**LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES****Dr. Ramanjan Sinha**

S. No.	Title	CME/Conference	Date	Organised by
1.	Central mechanisms in modulation of pain	International Brain Research Organization (IBRO)-Asia Pacific Regional Committee (APRC)	31 August - 5 September, 2021	Nepal Associate School on Neurophysiology of Pain
2.	Introduction to Research Methodologies	Post Graduate Research Orientation Program	01.06. 2021	Institute Research Cell, AIIMS, Raipur
3.	Introduction to Health Research	Basic Research Methodology Program-1	07.12.2021	Institute Research Cell, AIIMS, Raipur
4.	Study plan and project management, Overview of data analysis	MBBS Medical Education Program	18.02. 2022	Medical Education Unit, AIIMS, Raipur

**Dr. Meenakshi Sinha**

Sl. No.	Title	CME/Conference	Date	Organised by
1.	Chronomedicine during COVID times	National e-CME on "Physiology of Wellness in COVID times"	16.07.2021	Department of Physiology, AIIMS Nagpur
2.	Circadian rhythmicity & Pain	International Brain Research Organization (IBRO)-Asia Pacific Regional Committee (APRC); 31 August 2021 to 5 September 2021	04.09.2021	Nepal Associate School on Neurophysiology of Pain

Sl. No.	Title	CME/Conference	Date	Organised by
3.	Does your chronotype affect your cognition?	7 <sup>th</sup> Annual National Conference of Association of Physiologists of India 2021	09.09.2021	Department of Physiology, Pramukhswami Medical College, Karamsad, Gujrat
4.	Chronophysiology of COVID-19	International Symposium on Chronomedicine: Relevance during COVID times	18.09.2021	Department of Physiology, AIIMS Raipur, in association with ASSOPI and Indian Society of Chronomedicine
5.	Role of Circadian rhythm in exercise performance	National CME on Exercise & Lifestyle Medicine: an odyssey from basics to intervention	30.11.2021	Department of Physiology, AIIMS Raipur in collaboration with Indian Society of Sports & Exercise Medicine
6.	Role of rhythm in pain perception	World Congress of Chronomedicine, 17-19 Dec, 2021 2021	18.12.2021	Association of Physicians of India, Noida Chapter, Indian Society of Chronomedicine

### Dr. Ekta Khandelwal

S. No.	Title	CME/Conference	Date	Organised By
1.	Autonomic Scoring System	7th Annual National Conference of Association of Physiologists of India (ASSOPICON 2021)	07-09.09.2021	Pramukhswami Medical College, Karamsad
2.	Physiological perspective of yoga	International yoga day	21.06.2021	AIIMS, Raipur

### Dr. Arunita Tushar Jagzape

S. No.	Title	CME/Conference	Date	Organised By
1.	Importance of nutrition for optimum health and exercise performance	National CME on Exercise and Lifestyle medicine: An odyssey from Basics to intervention	30.11.2021	Department of Physiology, AIIMS, Raipur,

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Presentation	Conference	Date	Organised by
1.	Pande B, Sinha M & Sinha R	Sleep-Wake Behavior, Meal Timings and Digital Media Duration of Indians during COVID-19 Lockdown	Virtual SLEEP 2021	10-13.06.2021	World Sleep Research Society
2.	Pande B, Sinha M & Sinha R	Sleep-Wake and Psychosocial behavior of Indians during Unlock Compared to COVID-19 Lockdown Condition	APPICON 2021	14-16.04.2022	ESIC Medical College and Hospital, Faridabad

S. No.	Authors	Presentation	Conference	Date	Organised by
3.	Avinash S Ingle, Gaurav Suryavanshi, Satyajit Singh, Ekta Khandelwal.	The Influence of Epicardial Fat Thickness on Aerobic Capacity of the Overweight Young Adults	Singapore prevention & Cardiac Rehabilitation Symposium, Singapore	23-24.10.2021	Singapore Heart Foundation, the Asian chapter of World Heart Foundation.
4.	Ekta Khandelwal	Vaso-Occlusive crisis in Sickle Cell Disease: Role of Endothelial Dysfunction	9 <sup>th</sup> International conference of federation of Indian Physiological Society-FIPS 22	25-27.03.2022	NIPER Hyderabad
5.	Ekta Khandelwal	Modulation of Cardiovascular Response during Graded Activation of Muscle Metabolic Reflex	32 <sup>nd</sup> International Symposium on the Autonomic Nervous System	3-6.11.2021	American Autonomic Society
6.	Ghate J, Sinha M, Siddiqui S, Mohapatra E	Peripheral Neuropathy in Prediabetes and its Association with Serum Vitamin D levels	7 <sup>th</sup> Annual National conference of Association of Physiologists of India, ASSOPICON 2021	08.09.2021	Department of Physiology, Pramukhswami Medical College, Karamsad, Gujrat
7.	Arunita Tushar Jagzape, Tushar B Jagzape	Blending seminar and working portfolio to promote Assessment for learning	12 <sup>th</sup> NCHPE	26-30.10.2021	Sri Guru Das University of Health Sciences, Sri Amritsar

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Assessment of Cognitive Functions & its Association with Sleep-Wake Pattern And Light at Night (LAN) Exposure Duration in Chronic Obstructive Pulmonary Disease (COPD) Patients	Mentor/Guide- Dr. Meenakshi Sinha Principal Investigator – Dr. Babita Pandey (as PDF)	Post Doctorate Fellowship program of Cognitive Science Research Initiative of DST, Govt. of India	3 years	2020-2023	24,33,200/-
2.	Electrophysiology of Cognition and its correlation with Neuromarkers in Sickle Cell Disease patients: a case controlled study	Dr. Ramanjan Sinha	AIIMS, Raipur	1 yr	2022-2023	4,96,700/-

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
3.	Correlation of circadian rhythmicity of Rest-Activity with Heart Rate Variability in Bronchial Asthma & its clinical Implication	Dr. Meenakshi Sinha	AIIMS, Raipur	2 yr	February 2021- January 2023	4,99,500/-
4.	Effect of yoga-based lifestyle changes on epicardial fat thickness, intima-media thickness, pulse wave velocity, VO <sub>2</sub> max and anthropometric parameters in obese young adults.	Dr. Avinash S. Ingle	Central council for research in Yoga and Naturopathy (CCRYN)	2 years	2022-2024	9,93,000/-
5.	A short online survey for the effects of increased digital screen time on school-going children's vision and health during COVID-19 pandemic by the customized mobile application.	Dr. Avinash S. Ingle	AIIMS Raipur	8 months	2022-2023	2,78,000/-
6.	Evaluation of Chemotherapy induced Cardiac Autonomic Dysfunctions in Cancer Patients of Chhattisgarh	Dr. Ekta Khandelwal	CGCOST	2 years	2021-2023	5,00,000/-
7.	Association between P53 codon 72 polymorphism and diabetic polyneuropathy in type 2 diabetes mellitus: a pilot study	Dr. Jayshri R Ghate	AIIMS Raipur	1year	2022-2023	4,60,000/-
8.	Prevalence of metabolic syndrome in tribal and non-tribal population of Patan block of Chhattisgarh state: a pilot study	Dr. Jayshri R Ghate	ICMR, NIRTH	1 year	2022-2023	4,36,000/-
9.	Comparison of efficacy of Flash Visual Evoked Potential (VEP) to Pattern Reversal VEP and their utility in early detection of subclinical ocular changes in Sickle Cell Disease Patients of pediatric age group	Dr. Arunita T.Jagzape	AIIMS Raipur	1year	2022-2023	4,97,206/-
10.	Effect of body fat percentage on nonalcoholic fatty liver disease & its relation with nerve conduction parameters in health care shift workers	Dr. Dipali K. Chatur	AIIMS Raipur	1 year	2022-2023	4,96,650/-

**Completed**

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Correlation study of Endothelial Function & Biomarkers in Patients of Sickle Cell Anemia at Chhattisgarh	Dr. Ekta Khandelwal	AIIMS Raipur	1 year	2020-2021	5,00,000/-

**Departmental Projects (including thesis/dissertations)****Ongoing**

S. No.	Project
1.	Circadian Rhythm of Rest-Activity and Heart Rate Variability & its relation to Genetic Polymorphism in Asthmatic patients.
2.	Effect of Short Term Slow Deep Breathing Practice on Electrophysiological and Biochemical correlates of Neurocognition in Sickle Cell Disease.
3.	Impact of fasting and fed state on the cognitive ability of morning and evening chronotypes
4.	Long term effects of playing table tennis on peripheral & central neuronal activities in professional table tennis players.
5.	Assessment of cardiovascular, autonomic functions in pre-diabetic subjects: A case control study.
6.	Effect of “ <i>Kirtan Kriya</i> ” guided meditation on Cognitive and Autonomic Functions in Stressed Individual.
7.	Effect of conventional therapy on cardiac autonomic functions, and biochemical markers among polycystic ovary syndrome patients
8.	Assessment of cardiovascular autonomic functions in subclinical cases of Diabetes.
9.	Cardiac autonomic neuropathy in new type 2 DM patients
10.	Comparative assessment of facial nerve function in transmassetric and transparotid approach for open reduction and internal fixation of mandibular condylar fractures – A randomised controlled trial.
11.	The study of correlation between handgrip exercise and aerobic capacity on cardiovascular fitness in normal healthy individuals.
12.	A study on analysis of effectiveness of assessment tools in stratifying performance during formative assessment of first year MBBS students in Physiology.
13.	Formative assessment incorporating “Viva-voce using Objective, Integrated, Clustered Examination Software (VOICES)”: A mixed method design.

**Completed**

S. No.	Project
1.	Assessment of percentage body fat by using ultrasound technique in adult Indian Males
2.	The online survey of Knowledge, Attitudes and Practices among Medical practitioners of Central India during second wave of Covid-19: A web based study.
3.	Effect of metabolic components of muscle reflex on the recovery of the hemodynamic parameters after the cessation of static exercises.
4.	Pattern and Profile of Endothelial Dysfunction in Patients of Sickle Cell Anemia

S. No.	Project
5.	Do commercially available “protein supplements” have an ill effect on cardio vascular health of young adult males? – a pilot study
6.	Diurnal variation of Heart Rate Variability in individuals with Morning and Evening chronotypes

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Assessment of Cognitive Functions & its Association with Sleep-Wake Pattern and Light at Night (LAN) Exposure Duration in Chronic Obstructive Pulmonary Disease (COPD) Patients	Dept. of Pulmonary Medicine, Dept of Biochemistry & Dept. of Psychiatry, AIIMS, Raipur and School of Life Sciences, PRSU, Raipur
2.	Correlation of circadian rhythmicity of Rest-Activity with Heart Rate Variability in Bronchial Asthma & its clinical Implication	Dept. of Pulmonary Medicine, AIIMS, Raipur
3.	Electrophysiology of Cognition and its correlation with Neuromarkers in Sickle Cell Disease patients: a case controlled study	Dept. of Biochemistry, AIIMS, Raipur
4.	Effect of conventional therapy on cardiac autonomic functions, and biochemical markers among polycystic ovary syndrome patients	Department of OBG, AIIMS Raipur
5.	Assessment of cardiovascular autonomic functions in subclinical cases of Diabetes	Dept. of Medicine, AIIMS Raipur
6.	Evaluation of Chemotherapy induced Cardiac Autonomic Dysfunctions in Cancer Patients of Chhattisgarh	Dept. of Oncosurgery, Pt. JNM Medical College, Raipur
7.	Association between P53 codon 72 polymorphism and diabetic polyneuropathy in type 2 diabetes mellitus: a pilot study	Dept. of Biochemistry, General Medicine and Endocrinology, AIIMS Raipur
8.	Prevalence of metabolic syndrome in tribal and non-tribal population of Patan block of Chhattisgarh state: a pilot study	MRHRU Jheet, Durg, ICMR-NIRTH Jabalpur (Mentor Institute). Department of Biochemistry and General Medicine, AIIMS Raipur
9.	Comparison of efficacy of Flash Visual Evoked Potential (VEP) to Pattern Reversal VEP and their utility in early detection of subclinical ocular changes in Sickle Cell Disease Patients of pediatric age group	Dept. of Pediatrics & Dept. of Ophthalmology, AIIMS Raipur

### Completed

Sl. No.	Project	Collaborating department/institution
1.	Assessment of percentage body fat by using ultrasound technique in adult Indian Males	Dept of Cardio-Thoracic & vascular surgery

## PUBLICATIONS

1. Sahu T, Verma HK, Ganguly S, **Sinha M, Sinha R**. Leg ulcers in sickle cell disease a common, but neglected manifestation: a comprehensive review and perspective. *Adv Skin Wound Care*. 2021; 34(8):423-431.
2. **Sinha M**, Behera AK, **Sinha R**, Parganiha A, Pande B, Sharma R, Pati AK. Circadian rhythmicity of heart rate variability and its impact on cardiac autonomic modulation in asthma. *Chronobiol Int*. June 2021;14:1-9.
3. Sahu T, Pande B, **Sinha M, Sinha R**, Verma HK. Neurocognitive changes in sickle cell disease: a comprehensive review. *Ann Neurosci* (Accepted for publication), 2022.
4. Showkath N, **Sinha M, Ghate J**, Agrawal S, Mandal S, **Sinha R**. EEG-ERP Correlates of Cognitive Dysfunction in Polycystic Ovarian Syndrome. *Ann Neurosci* (Accepted for publication), 2022
5. **Avinash S. Ingle**, Nitin Kumar Kashyap, Soumitra Trivedi, Rajiv Choudhary, Gaurav Suryavanshi et al. Assessment of percentage body fat by using B-mode ultrasound technique vs. Skinfold caliper in obese healthy volunteers. *Cureus* 14(3): e22993. DOI 10.7759/cureus.22993
6. **Avinash S. Ingle**, Soumitra Trivedi, Kiran Ratan Bagale, Tej Praksh Sinha. The role of portable cardiac ultrasound in understanding the Anatomy and Physiology of heart: Indian scenario. *Indian J of Basic & App Med Res*; Jun 2021:10 (3), 367-374.
7. Rao S, Randy S, Konuri VK, **Khandelwal E**. Vascularized second metatarsal joint transfer with concomitant orthognathic surgery for reconstruction of the temporomandibular joint: our pilot study. *J Maxillofac Oral Surg*.2022; 21(1): 58-63.
8. **Jagzape A**, Gupta A, Ghritlahre N. Simple manipulative of gross organization of skeletal muscle: enhancing learning among students offline and online. *Adv Physiol Educ* . 2021; 45: 461–463.

## Intellectual property Rights:

Title	Authors	Number
Medical Education Unit tree: A portrayal of its 'roles and responsibilities'	<b>Dr. Arunita Jagzape</b> , Dr. Tushar Jagzape	Registration no: L-102530/2021
PATENT (APPLIED)	Authors	Number
Game Based Learning tool relating to Anaemia	Dr. Ankit Gupta, <b>Dr. Arunita Jagzape</b> , Dr. Tushar Jagzape, <b>Dr. Meenakshi Sinha</b>	Application no. 2021111029447

## Abstracts Published in Journal(s):

1. Pande B, **Sinha M, Sinha R**. Sleep-wake behavior, meal timings and digital media duration of Indians during COVID-19 Lockdown. *Sleep May 2021*, 44 (Suppl 2):A91-A92. doi :10.1093/sleep/zsab072.228
2. Pande B, **Sinha M & Sinha R**. "Sleep-wake and psychosocial behavior of Indians during unlock compared to COVID-19 lockdown condition". Proceedings of APPICON 2021-22 "Confluence of Health Sciences", April 14-16, 2022 at ESIC Medical College and Hospital, Faridabad.
3. Ghate J, **Sinha M**, Siddiqui S, Mohapatra E. Peripheral neuropathy in Prediabetes and its association with serum vitamin D levels. Proceedings of 7th Annual National conference of Association of Physiologists of India, ASSOPICON 2021.

## Chapter in Book

S. No.	Author (s)	Chapter Title	Editor	Book	Edition	City of Publication	Publisher	Year of Publication	First page-Last page
1.	Weinzaepflen C, Spitschan M, <b>Sinha M</b> , Pande B, Deshpande U, & Dandawate V.	All Chapters	Manuel Spitschan, UK	Enlighten your clock: How your body tells time	1 <sup>st</sup>	University of Oxford, UK	CBS Publishers and distributors Pvt Ltd.	June 2021	01-18

## PATIENT CARE

## AFT &amp; Vascular Function Clinic

	Tests	Special Clinics
Total	149	AFT & Vascular Function

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

## Dr. R.Sinha :

- Developed CIMER (Centre for Integrated Medicine, Education & Research) to integrate research & teaching of Modern medicine with AYUSH departments.
- Initiated Centre for Mind-Body Medicine & Yoga at AIIMS, Raipur with research projects under the same.

## Dr. M. Sinha:

- Member of Local Research Advisory Committee for the development of Model Rural Health Research Unit ICMR-NIRTH, MoHFW, Govt. of India
- External expert for Doctoral Committee of PhD candidate, July 2021 session at AIIMS Nagpur

- Reviewer for (i) Medical Journal of Armed forces India, (ii) Biological Rhythm Research, (iii) Asian Journal of Medical Sciences, (iv) Respiratory Physiology & Neurobiology, (v) Frontiers in Public Health, (vi) Annals of Medicine
- Dr. Babita Pande, PDF, under the mentorship of Dr. Meenakshi Sinha was awarded Trainee Merit Award in Virtual SLEEP 2021, June 10-13, 2021, by World Sleep Research Society.
- Organised as Member Secretary, the International Symposium on Chronomedicine: Relevance during COVID times at AIIMS, Raipur in September, 2021.

## Dr. Avinash S. Ingle:

- Received Oral presentation Merit Award [exercise prescription/effects on heart category] for presentation on 'The influence of epicardial fat thickness on aerobic capacity of the overweight young adults', during Singapore prevention & Cardiac Rehabilitation Symposium, Organized by Singapore Heart Foundation (Asian chapter of World Heart Foundation), 23&24 October 2021.

## Dr. Jayshri R. Ghate

- Reviewer for Medical Journal of Armed forces India



# Department of Psychiatry

## Additional Professor

Dr. Lokesh Kumar Singh

## Assistant Professors

Dr. Aditya Somani

Dr. Ajay Kumar

## HIGHLIGHTS

World Mental Health Day was celebrated as a World Mental Health Week by the department of Psychiatry by organizing various programs between 07.10.2021 to 10.10.2021.

On 07.10.2021, the program “CNE for BSc Nursing Students & Gatekeeper Training for Suicide prevention” was organized for the students and employees of the institute and patient awareness programs related to medical advice, personal hygiene, mental health, yoga and meditation for admitted patients and their guardians.

On 08.10.2021, “School Mental Health Program for Schools of Chhattisgarh-An online Program” has been organized. Various information related to mental health and its treatment was provided to all the students present in the program. Similarly, an awareness program was organized at the Central Dome (Main Registration Counter) for general public. In the program, an attempt was made to create awareness about mental health among the people through drama acting by the students. Also a program “Lecture cum discussion on promotion of mental health post Covid among old age people at Sanjeevani old age

home was organized. Information related to yoga was provided to all the people present by the doctor of the Department of Yoga and Naturopathy, AIIMS, Raipur and the method of doing yoga and its benefits were told about it. Another program “OPEN MIC”- an interactive programme with MBBS students was organized. Under the program, the medical students of the institute were encouraged to express their views openly. Under the program, the students were told that how they can identify and diagnose mental patients in the society and how they can be aware of their own mental health.

On 09.10.2021 the program “OFFICE YOGA-A programme for staff and faculty of AIIMS, Raipur” was organized. Various important information related to Yoga and Naturopathy was interviewed by the doctor of Department of Yoga and Naturopathy from the people present. A competition “E-Poster” was also organized for all the students of AIIMS, Raipur. The theme of the competition was “Mental health & Youth”. On 07.10.2021 and 08.10.2021, an awareness programs related to medical advice, personal hygiene, mental health, yoga and meditation etc. for patients and their families was also organized. Under the program, information was provided to all the patients and their families about the proper use of medicines for mental diseases and its bad effects.

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES

S. No.	Title	Date	Organised By
1.	Psychiatry quiz for students of MBBS of Chhattisgarh state	31.07.2021	Dept. of Psychiatry, AIIMS, Raipur
2.	CNE for BSc Nursing Students & Gatekeeper Training for Suicide prevention	07.10.2021	Dept. of Psychiatry AIIMS, Raipur

S. No.	Title	Date	Organised By
3.	School Mental Health Program for Schools of Chhattisgarh-An online Program	08.10.2021	Dept. of Psychiatry AIIMS, Raipur
4.	OFFICE YOGA-A programme for staff and faculty of AIIMS, Raipur	09.10.2021	Dept. of Psychiatry AIIMS, Raipur
5.	Hands on Cadaveric Workshop cum CME Cochlear Implant	04.12.2021	AIIMS, Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Lokesh Kumar Singh

S. No.	Title	CME/Conference	Date	Organised by
1.	Psychiatric issue in COVID 19	Interactive webinar series on COVID 19 Management by AIIMS, Raipur with Dedicated COVID 19 facilities in Chhattisgarh	17.06.2021	AIIMS, Raipur
2.	Unfolding the Mysteries behind Substance Abuse	Online CME on :Drug abuse: An insight to a never ending challenge	26.06.2021	AIIMS, Mangalagiri
3.	Stress & Suicide in Indian Soldier	ITBP training Programme	27.08.2021	AIIMS, Raipur
4.	Gatekeeper Training for Suicide prevention-Concept and approach	CNE for BSc Nursing Students & Gatekeeper Training for Suicide prevention	07.10.2021	Department of Psychiatry, AIIMS, Raipur
5.	Psychological well being in school going children	School Mental Health Program for Schools of Chhattisgarh-An online Program	08.10.2021	Department of Psychiatry, AIIMS, Raipur
6.	Stress & Suicide in Indian Soldier	ITBP training Programme	26.11.2021	AIIMS, Raipur

### Dr. Aditya Somani

S. No.	Title	CME/Conference	Date	Organised by
1.	Psychopharmacology in Geriatric Population	43 <sup>rd</sup> Annual Conference of Central Psychiatric Society (CIPCON-2021)	29.10.2021 to 31.10.2021	Central Psychiatric Society
2.	Resource faculty for the program	Training program for medical officers and staff at OST centers of Chhattisgarh and Bihar	08.12.2021 to 10.12.2021	Chhattisgarh State AIDS Control Society

### Dr. Ajay Kumar

S. No.	Title	CME/Conference	Date	Organised by
1.	Symposium on "Emergence of digital health is the future of tomorrow?"	International Conference by World Association of Social Psychiatry-Asian Pacific Hybrid Congress-2021	16.09.2021 to 18.09.2021	WASP & Department of psychiatry & NDDTC center, AIIMS-New Delhi

S. No.	Title	CME/Conference	Date	Organised by
2.	Mental health awareness geriatric population	Promotion of mental health post Covid among old age people Sanjeevani old age home, Raipur	08.10.2021	Department of Psychiatry, AIIMS, Raipur
3.	Sharing of Teaching-Learning Experiences-Does it Help?	National CME on Psychiatry Education and Faculty Training	15.01.2022	Department of Psychiatry, St. John's Medical College, Bangalore

### ORAL PAPER/POSTER PRESENTED

S. No.	Authors	Title	Conference	Date	Organised by
1.	Dr. Ajay Kumar	Euthanasia: A COVID-19 perspective	International Conference by World Association of Social Psychiatry-Asian Pacific Hybrid Congress-2021	17.09.2021	WASP & Department of psychiatry & NDDTC center, AIIMS-New Delhi

## RESEARCH

### Funded Projects:

#### Ongoing:

S. No.	Title of the Project	Name Principal Investigator	Funded by (Name of funding agency)	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Development of a multi-modal artificial intelligent system for detection of endophenotypes in schizophrenia using automated speech and EEG signal analysis: An explorative study from Chhattisgarh State	Dr. Lokesh Kumar Singh	DST,Gol	03	March 2020 - March 2023	₹ 2538240/-

### Departmental Projects – Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations

#### Ongoing

S. No.	Project
1.	Retinal structure abnormalities and facial emotion recognition in unmedicated first episode psychosis
2.	Hindi translation and validation of Young's Internet Addiction Test
3.	Effect of Adjunctive Prefronto-Cerebellar Transcranial Direct Current Stimulation(tDCS) on Craving and Relapse Prevention in Patients with Alcohol Dependence Syndrome (ADS): A Randomized Sham Controlled Study.
4.	Clinical correlates of insulin resistance in patients of first-episode schizophrenia and their first degree relatives – A cross-sectional study
5.	Titration of buprenorphine and naloxone combination dose in patients dependent on poppy husk: a prospective open label study.

S. No.	Project
6.	Utility of mobile messages for encouraging adherence to opioid substitution therapy in patients of opioid dependence syndrome using poppy husk: a randomised controlled study.
7.	Knowledge about and attitudes and practices towards LGBTQIA+ people among medical undergraduate and postgraduate students: a cross sectional study
8.	Assessment of platelet parameters in patients of depression
9.	Quality of male sexual function in population on buprenorphine-naloxone based substitution therapy: A tertiary hospital-based study (intramural, nonfunded)
10.	Perceived utility of Indian adaptation of vineland social maturity scale to measure contemporary adaptive behaviour: A survey on professionals

### Completed

S. No.	Project
1.	Appraisal of psychotherapy training in psychiatrist: A national survey (Intramural, non funded)
2.	Stress, Anxiety, Depression and Coping Behaviors in Interns of Tertiary care hospitals during Covid-19 lockdowns In India (extramural, non funded)
3.	Digital media use in children and adolescents and its effect on their health, psychological & behavioral functioning, and family during Covid-19 lockdown in India
4.	Cognitive functioning as a trait marker in cannabis use disorder
5.	External ear anomalies in Depressive disorder - A Cross Sectional Study

### Collaborative Projects

#### Ongoing:

S. No.	Project	Collaborating Department/Institution
1.	A cross sectional survey to assess the readiness to change in alcohol dependent population among patients presenting to psychiatry OPD, AIIMS Raipur	College of Nursing, AIIMS, Raipur
2.	Pathways to care in patients with drug and alcohol dependence: a multi-center study from India	Postgraduate Institute of Medical Education and Research, Chandigarh and nine other institutes from the country
3.	Efficacy of yoga therapy as an adjunction to the individualised homeopathic treatment on severity and frequency of migraine: A randomized controlled trial	Department of Homoeopathy, Ayurveda and Yunani, AIIMS, Raipur
4.	Association of serum C-reactive protein with postoperative delirium among patients undergoing major abdominal surgeries: A observational study	Department of Anesthesia and Biochemistry, AIIMS Raipur
5.	Workplace violence in a Healthcare Setting and its psychological impact on Healthcare Workers.'	Multicentric project Department of Psychiatry, St. Johns Medical College & Hospital-Bangalore

**Completed**

S. No.	Project	Collaborating Department/Institution
1.	Social and demographic factors for obesity and prevalence of depression in the obese children of age group 6 to 12 years visiting AIIMS Raipur OPD/IPD	Department of pediatrics, AIIMS, Raipur (thesis)
2.	Psychological distress, anxiety and fear, among dental practitioners in India due to COVID-19 pandemic: A nationwide online survey	Department of dentistry

**PUBLICATIONS**

- Arya S, Ghosh A, Mishra S, Swami MK, Prasad S, Somani A, **Singh LK**, et al. A multicentric survey among patients with substance use disorders during the COVID-19 lockdown in India. *Indian J Psychiatry* 2022;64:48-55.
- Arora M, **Singh LK**, Somani A. Lacunae in current understanding of opioid substitution therapy in patients dependent on poppy husk. *Indian Journal of Behavioral Sciences* 2021;24:59-63.
- Soni PK, **Singh LK**, Das S, Nandan NK. Acamprosate-induced myoclonic jerks: A rare side effect. *Indian J Pharmacol* 2021;53:511-512.
- Jayasankar P, Manjunatha N, Rao GN, Gururaj G, Varghese M, Benegal V, **Singh LK**, et al. Epidemiology of common mental disorders: Results from “National Mental Health Survey” of India, 2016. *Indian J Psychiatry*. 2022 Jan-Feb;64(1):13-19.
- Shukla A, Tikka SK, Singh LK, Arora R, Singh S, Mahant S, et al. Impact of cancer diagnosis on use of smokeless tobacco: A descriptive study of patient-relative dyads, *Indian J Psychiatry* 2022; 64 (2): 192-198.
- Godi SM, Singh LK. Escitalopram-induced skin rash: Dermatitis medicamentosa. *Indian J Dermatol* 2022;67:93.
- Somani A**. Down the memory lane. *Minds* 2021;11(3):4
- Somani A**. Addiction and sexual health: The connection is no longer “holy”. *Indian Journal of Health, Sexuality & Culture* 2021;7:1-3 (ISSN: 2581-575X)
- Somani A**, Sharma A, Goyal N, Gulia M. Catatonia associated with seizures due to parietalcavernoma. *Indian J Psychiatry* 2021;63:309-11
- Kumar A, Chandran S, Somani A. Conducting online web-based surveys at the time of COVID-19 pandemic: A short report. *Arch Ment Health* 0;0:0 10.4103/AMH.AMH\_44\_20
- Grover S, Vaishnav M, Tripathi A, Rao TS, Avasthi A, Dalal PK, et al. Sexual functioning during the lockdown period in India: An online survey. *Indian J Psychiatry* 2021;63:134-41.
- Grover, Sandeep; Mehdi, Abbas; Kumar, Ajay; Chakrabarti, Subho; Avasthi, Ajit Sexual dysfunction in clinically stable patients with bipolar disorder receiving valproate, *Indian Journal of Psychiatry: Jul–Aug 2021 - Volume 63 - Issue 4 - p 366-371 doi: 10.4103/psychiatry.IndianJPsychiatry\_205\_20*
- Kumar A, Mehra A, Avasthi A. Euthanasia: A Debate—For and Against. *J Postgrad Med Edu Res* 2021;55(2):91–96
- M. K, H.R. V, Kumar A, Chandran S. Art of Teaching Sexual Medicine to Medical Students. *Journal of Psychosexual Health*. June 2021. doi:10.1177/26318318211023748
- Kumar A, Chandran S, M K. Use of electronic logbook in psychiatry training and its relevance during COVID-19 pandemic in India. *Asian J Psychiatr* 2021; 64: 102763.
- Kumar A., Godi, S., Yadav, A (2021). Sexual functions and its relationship with cannabis, tobacco, benzodiazepin and amphetamine type stimulants use. *Indian Journal of Health, sexuality & culture* , 7(1), 26-34

### Chapters in books:

S. No.	Author(s) of Chapter	Chapter Title	Name of the Editor	Name of the Book	Edition	City of Publication	Publisher	Year of Publication	First page-Last page
1.	<b>Kumar A, Somani A,</b> Singh Y, Vishnuvardhan G	Epidemiology of Obsessive-Compulsive disorders with Particular Reference to India	Bipeta R	Indian Psychiatric Update: Obsessive-Compulsive & Related Disorders	1 <sup>st</sup>	Trichy, India	Indian Psychiatric Society South Zonal Branch	2021	13-18
2.	Somani A, Kumar A	Historical Perspectives of Panic Buying	Arafat SMY, Kar SK, Kabir R	Panic Buying	1 <sup>st</sup>	Cham, Switzerland	Springer International Publishing	2021	115-123
3.	Somani A & Kumar A	Historical Perspectives of Panic Buying	Arafat S.Y., Kumar Kar S., Kabir R	Panic Buying: Briefs in Psychology.	-	-	Springer, Cham	2021	115-123
4.	Kumar A, Somani A, Singh Y, Vishnu Vardhan G	Epidemiology of obsessive compulsive disorder with particular to India	Bipeta R	Indian Psychiatry Updates-	-	Bangalore	Indian Psychiatry Society-Karnataka Chapter	2021	13-18

## PATIENT CARE

### Facilities available in the department

1. Management of major psychiatric disorders including adult psychiatry, child psychiatry, geriatric psychiatry, substance use disorders, psychosexual disorders- In-patient/ Out-patient basis
2. Consultation – liaison and emergency psychiatric services
3. Special clinic for patients of opioid dependence- every Monday and Thursday

	OPD	IPD	Tele consultation	Special Clinic Attendance	Clinical Psychology Assessment	Child Psychology Assessments and Therapies	Total ECT	Total TDCS
Total	13902	229	1780	3458	4	275	54	166

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

1. Dr. Lokesh Kumar Singh was invited by Chhattisgarh Public Service Commission, Raipur as subject expert for interview of faculty and other posts.
2. Dr. Aditya Somani continues to serve as Assistant Editor of the Indian Journal of Social Psychiatry and the Indian Journal of Behavioral Sciences, and as member of editorial board of Indian Journal of Health, Sexuality & Culture.
3. Dr. Aditya Somani has joined the Editorial Board

- of the journal *Frontiers in Psychiatry* as 'review editor'.
4. Dr. Aditya Somani continues to serve on the panel of experts in subject of Psychiatry for National Board of Examinations, New Delhi.
5. Dr. Aditya Somani has joined the Executive
- Committee of the Central Psychiatric Society (Indian Psychiatric Society-Central Zone).
6. Dr. Ajay Kumar was Nominated Convenor India Psychiatry Society faculty training task force 2022-23
7. Dr. Ajay Kumar, Editor, MINDS newsletter

# Department of Pulmonary Medicine

## Professor and Head

Dr. Sajal De

## Additional Professor

Dr. Ajoy Kumar Behera

## Assistant Professors

Dr. Ranganath T.G.

Dr. Dibakar Sahu

## HIGHLIGHTS

Pulmonary Medicine Update 2021, a National Symposium on Pulmonary Medicine organized by Dept. of Pulmonary Medicine, Critical Care & Sleep Medicine was conducted on 18th December 2021. The CME was followed by a workshop and live demonstration of polysomnography (whole night sleep study). World COPD Week was celebrated on 20<sup>th</sup> November 2021; 76 Traffic police officers underwent lung function testing as part of the COPD screening program. National Tuberculosis

Elimination Programme sensitization programme was conducted from 21.03.22 to 26.03.2022 for Faculties, Senior Residents, Junior Residents, MBBS students, Nursing Officers and Nursing students. New services introduced in the department are Body Plethysmography for measurements of lung volumes, Single-breath diffusion capacity for Carbon monoxide, and Forced Oscillation technique for Assessment of small Airway function, Medical Thoracoscopy. We also introduced skin prick testing to diagnose Naso Bronchial Allergies

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Sajal De

S. No.	Title	CME/Conference	Date	Organised By
1.	Interpretations and Clinical Implications of Impulse Oscillometry	2nd National Pulmonary PG Conference 2021	26.09.2021	Dept of Respiratory Medicine, KGMU, Lucknow
2.	Assessment of Small Airway Dysfunction in Respiratory Diseases	National Live Webinar Series for DNB Residents	05.01.2022	NBMES, New Delhi
3	Asthma COPD Overlap	National Pulmonary Medicine Update	18.12.2021	AIIMS, Raipur

### Dr. Ajoy Kumar Behera

S. No.	Title	CME/Conference	Date	Organised By
1.	COVID-19 Management	International Webinar on COVID-19	21.04.2021	Telemedicine Facility, AIIMS Raipur



S. No.	Title	CME/Conference	Date	Organised By
2.	COVID-19 Treatment Protocol	Webinar on COVID-19	21.04.2021	NHM(Govt of CG) & World Health Organisation, India
3.	COVID-19 Management	Interactive Webinar Series on Clinical Excellence Programme	03.05.2021-13.05.2021	AIIMS, New Delhi
4.	COVID-19 Management	COVID-19 Webinar on Clinical Excellence Programme	08.06.2021-18.06.2021	AIIMS, Raipur with SHIFW(CG)
5.	Pmdt Guidelines in India- 2021	National Training of Trainers (TOT)	14.06.2021-18.06.2021	Central TB Division (GoI), New Delhi
6.	Role of Yoga in COVID-19	CME on International Yoga	21.06.2021	Telemedicine AIIMS, Raipur
7.	Artificial Intelligence in Health Care	CME on AI	04.07.2021	MEU, AIIMS, Raipur
8.	Implementation of Newer Policies Under NTEP	NTF (National Task Force) Workshop	07.07.2021	Central TB Division (GoI), New Delhi
9.	Lower Limb Wearable Robot For Rehabilitation Assistance	2 <sup>nd</sup> International Conference, IEEE	16.07.2021 & 17.07.2021	LORDS Institute of Engineering & Technology
10.	Monitoring of Stroke Patients on Integrating Internet of Things(Iot) and Virtual Reality(Vr) Rehabilitation Training System	2 <sup>nd</sup> International Conference, IEEE	16.07.2021 & 17.07.2021	LORDS Institute of Engineering & Technology
11.	TB Preventive Treatment	TOT Guidelines for PMTPT	26.07.2021 & 27.07.2021	Central TB Division (GoI), New Delhi
12.	Management of COPD	State Level Training for Medical Officers	28.07.2021, 30.07.2021 & 04.08.2021	SHIFW, Govt of CG
13.	NTEP Newer Policies	STF Workshop	06.08.2021	Chhattisgarh State TB Cell
14.	Operational Research (NTEP)	NTEP OR Workshop	13.08.2021	Chhattisgarh State TB Cell
15.	Medical Management of COVID Associated Mucormycosis	Hybrid CME on Mucormycosis	28.08.2021	Dept. of ENT, Head & Neck Surgery, AIIMS, Raipur
16.	National Environmental Pollution	NEHP Meeting	02.09.2021	Ministry of Environment, GoI
17.	Relevance In Covid Times	International Symposium on Chrono-medicine	18.09.2021	ISCA of Physiologists of India
18.	Programmatic Management of TPT	TB Preventive Therapy	28.09.2021	NHM, Govt of CG
19.	Diagnosis of Bronchial Asthma	Training Staff Nurses, SHIFW	06.10.2021	SHIFW & AIIMS, Raipur

S. No.	Title	CME/Conference	Date	Organised By
20.	COVID-19: Human Resilience, Innovation & Hope (Panel Discussion)	National Hybrid CME on Covid 19	23.10.2021	Dept. of Microbiology, AIIMS, Raipur
21.	Ethics & Morality & Impact on Human Health & Well-being	Vigilance Awareness	30.10.2021	NTPC-SAIL, Bhilai (CG)
22.	NTEP Update	Training to Medical Officers	03.12.2021-04.12.2021	Chhattisgarh State TB Cell
23.	Post COVID Lung Complications	Pulmonary Medicine Update-2021	18.12.2021	Dept. of Pulmonary Medicine, AIIMS, Raipur
24.	COVID Management in 3 <sup>rd</sup> Phase	Challenges in 3 <sup>rd</sup> phase	11.01.2022	Ministry of Health & Family Welfare, Gol
25.	NTEP Update	ZTF Workshop	13.01.2022	ZTF, Patna & CTD, New Delhi
26.	Doctors For Clean Air & Climate Action	DFCA Meet	12.02.2022	Clean Air, New Delhi
27.	ICMR's Network of Pulmonary Fibrosis	ICMR-INPF	18.02.2022	ICMR, New Delhi
28.	Difficult to Treat TB Case	DT3C Clinic	28.02.2022	ECHO India & AIIMS Raipur
29.	Importance of Health Information For Achieving Better Health	MEDRECON- 2022	11.03.2022-12.03.2022	AIIMS, Raipur
30.	Prevention of COVID- 19	International webinar on Yoga	12.03.2022	CG Yoga Commission
31.	Diagnosis of COPD	Training of community Health Officers, SHIFW	16.03.2022	SHIFW, Govt of CG
32.	OSA, Diagnosis & Management	CME on Sleep Disorder	17.03.2022	AIIMS, Deoghar
33.	NTEP Update	NTEP Sensitization Programme	21.03.2022-28.03.2022	Dept of Pulmonary Medicine, AIIMS, Raipur
34.	CT- Radiology	NAPCON 2021	31.03.2022	ICS & NCCP

### Dr. Ranganath.T.G

S. No.	Title	CME/Conference	Date	Organised By
1.	Epidemiology, Risk Factor and Pathophysiology of COPD	Community Health Officers Training	18.01.2022, 16.02.2022 & 16.03.2022	Dept of Health and Family Welfare, Govt of Chhattisgarh
2.	Post COVID Sequelae, at AIIMS Raipur	Clinical Excellence Programme, Regional Centre of Excellence in COVID- 19	18.06.2021	AIIMS, Raipur
3.	Phenotypic Management of Bronchial Asthma	Pulmonary Medicine Update 2021	18.12.2021	AIIMS, Raipur

S. No.	Title	CME/Conference	Date	Organised By
4.	Role of Pneumococcal Vaccines in Pulmonology Practice	E-CME	10.10.2021	AIIMS, Raipur
5.	Management of SFCOPD (Role of Nursing Care)	Training Programme Under National Programme For Control of Noncommunicable Diseases	27.07.2021 & 29.07.2021, 03.08.2021	State Health Resource cell, Govt of Chhattisgarh
6.	Management of Moderate and Severe Covid 19 Infection	Covid 19 Orientation Programme	15.04.2021, 15.05.2021, 15.06.2021, 15.07.2021, 15.08.2021 & 15.09.2021	AIIMS, Raipur

### Dr. Dibakar Sahu

S. No.	Title	CME/Conference	Date	Organised By
1.	Polysomnography	National Pulmonary Medicine Update	18.12.2021	AIIMS, Raipur
2.	Management of Acute Exacerbation of COPD and Hands on Invasive and Niv in COPD Management	Community Health Officers Training	18.01.2022, 16.02.2022, 16.03.2022	Dept of Health and Family Welfare, Govt of Chhattisgarh
3.	Anti il-6 therapy, At aiims, Raipur	Clinical Excellence Programme, Regional Centre of Excellence in COVID-19	14.06.2021	AIIMS Raipur
4.	Epidemiology, Risk Factors Pathology of COPD (Role of Nursing Care)	Training Programme under National Programme for Control of Noncommunicable Diseases	29.07.2021, 03.08.2021	State Health Resource cell, Govt of Chhattisgarh

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	An Open Level, Prospective, Non-Comparative, Multicenter, 24 Weeks, Phase Iv Trial to Evaluate Safety and Efficacy of Glycopyrronium/Formoterol/Budesonide (25mcg/12mcg/400mcg) Fixed Dose. Triple Combination (Fdc) Twice Daily In Patients With Moderate to Severe Chronic Obstructive Pulmonary Disease (COPD)	Sajal De	Cipla	01 year	2022-23	4 lacs

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
2.	National Environmental Health Profile Study	Dr.Ajoy Kumar Behera	Ministry of Environment, Forest & Climate Change	3	2019-2022	52.57 lakhs
3.	Therapeutic Efficacy of Yoga on Biomedical Profile, Anxiety and Sleep Quality intend of Asthma Patients- Pilot Project	Dr.Ajoy Kumar Behera	AIIMS, Raipur. Intramural	1	2021-2022	5 lakhs
4.	ICMR's Network of Pulmonary Fibrosis	Dr.Ajoy Kumar Behera	ICMR Hqrs, New Delhi	3	2021-2024	45.3 lakhs

### Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	A Randomized, Double-Blind, Two Arm, Controlled Clinical Trial to Compare the Efficacy and Safety of Mycobacterium W (Mw) Administered Along With Standard of Care Versus Placebo Administered Along With Standard of Care, In Adult, Covid 19 Positive Patients Hospitalized But Not Critically Ill.	Dr. Sajal De	CSIR	01 year	2020-2021	11.27 Lac
2.	Comparison Of Serum Anti-Spike (S) Igg Antibody Between Vaccinated And Unvaccinated Post Covid-19 Patients: A Pilot Study	Sajal De	Intramural	03 months	2021-22	Rs 25000/-
3.	A Randomized, Double- Blind, Two Arm, Placebo Controlled Clinical Trial to Evaluate the Efficacy and Safety of Mycobacterium W(Mw) In Preventing Covid- 19 in Subjects at Risk Of Getting Infected With Covid-19	Dr.Ajoy Kumar Behera	Cadila Pharma	0.75	2020-2021	8.75 lakhs

### Departmental Projects – Non-Funded Projects/ ICMR–STS Projects/ Thesis/Dissertations

#### Ongoing

S. No.	Project
1.	Development of Predictive Equation For Lung Function Parameters
2.	Assessment of Respiratory Morbidities and Lung function in Covid 19 Survivors: an Observational Study

S. No.	Project
3.	Evaluation of Small Airway Dysfunction in Chronic Obstructive Pulmonary Disease
4.	To Evaluate the Diagnostic Yield and Safety of Medical Thoracoscopy in Patients with Undiagnosed Exudative Pleural Effusion

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Assessment Of Cognitive Functions & Its Association With Sleep-Wake Pattern And Light At Night (Lan) Exposure Duration in Chronic Obstructive Pulmonary Disease (COPD) Patients	Dept. of Physiology & Dept. of Psychiatry, AIIMS, Raipur
2.	Correlation Of Circadian Rhythmicity of Rest-Activity and Heart Rate Variability in Bronchial Asthma & Its Clinical Implication	Dept. of Physiology, AIIMS, Raipur & School of Life Sciences, PRSU, Raipur
3.	Circadian Rhythm Of Rest-Activity and Heart Rate Variability & its Relation to Genetic Polymorphism in Asthmatic Patients	Dept. of Physiology & Dept. of Biochemistry, AIIMS, Raipur
4.	Laryngotracheal Complications in Post COVID Recovered Patients”– A Preliminary Study from Central India	Department of Otorhinolaryngology, Head and neck surgery. AIIMS Raipur

### Completed

S. No.	Project	Collaborating Department/Institution
1.	Characterization of the Proteolytic Processes in the Serum of Patients With Severe Acute Respiratory Syndrome Coronavirus 2 (Sars-Cov-2) Pneumonia- A Pilot Study	ICMR-NIMR, New Delhi
2.	Lung Perfusion Scintigraphy in Early Post-Covid-19: A Retrospective Analysis	Dept of Nuclear Medicine, AIIMS Raipur
3.	Clinico Pathological&Immunohistochemical Profile Of Primary Lung Carcinomas in Tertiary Care	Dept. of Pathology & Lab Medicine, AIIMS, Raipur.
4.	Alteration In Neural And Cognitive Status in Asthmatic Patients	Dept. of Physiology & Dept. of Psychiatry, AIIMS, Raipur
5.	Diagnostic accuracy of lipoarabinomannan antigen detection in Pleural Tuberculosis'	Department of Microbiology, AIIMS Raipur

## PUBLICATIONS

- De S**, Banerjee N, Sabde Y. Respiratory morbidities and lung function abnormalities in survivors of Bhopal Gas Disaster:A cross-sectional study. *Respir Investig.* 2021;S2212-5345(21)00163-5.
- Dantis K, Rathore V, Kashyap NK, Gupta N, **De S**, Singha SK. SARS-CoV-2 sequel: Pulmonary mucormycosis with a mycotic aneurysm in a transplant recipient. *Tuberc Respir Dis (Seoul).* 2021.
- De S**, Ravina M, Lukose T, **G RT**, **Sahu D**. Lung Perfusion Scintigraphy in Early Post-COVID-19: A Single Centre Retrospective Study. *J Nucl Med Technol.* 2021;jnmt.121.262440.
- De S**, Khan Q, Khuswaha GDS, Banerjee N, Mishra PK. Oxidative biomarkers of exhaled breath condensate in adults exposed to traffic-

- related air pollution: A case-control study. *J Breath Res.* 2021 Jun 10.
5. **De S.** Diagnostic accuracy of respiratory impedance parameters to detect airflow obstruction in adults. *Indian J Allergy Asthma Immunol* 2021;35:22-6
  6. Singh D, Singh BK, **Behera AK.** Differential Diagnosis of Asthma and Chronic Obstructive Pulmonary Diseases using Statistical Analysis on Data of Pulmonary Function Test Report. 6<sup>th</sup> Conference for Convergence in Technology(12CT)2021
  7. Singh D, Singh BK, **Behera AK.** Comparative Study of Differential IIR Filter for Denoising Lung Sound. 6<sup>th</sup> Conference for Convergence in Technology(12CT)2021
  8. Prasad SD, Patel S, **Behera AK, Sahu D,** Shah S, Nanda R, Eli M. Inflammatory and Immune Biomarkers in Predicting the severity in COVID-19. *Journal of Advances in Medicine and Medical Research* 2021; 33:1 &13
  9. Sinha M, **Behera AK,** Sinha R, Parganiha A, Pande B, Sharma R, Pati AK. Circadian rhythmicity of heart rate variability and its impact on cardiac autonomic modulation in asthma. *Chronobiology International* 2021;38:1631-1639
  10. Haider NS, **Behera AK.** Computerized lung sound-based classification of asthma and chronic obstructive pulmonary disease. *Biocybernetics and Biomedical Engineering*; 42(2022): 42-59
  11. Pati SK, Raja P, **Behera AK, Ranganath TG,** Bodhey NK. Osteopetrosis in a Patient of Systemic Sclerosis Sine Scleroderma: A Rare Association. *Indian Journal of Radiology and Imaging*
  12. Mehta R, Nagarkar NM, Jindal A, Rao KN, **Behera AK.** Multidisciplinary Management of COVID-Associated Mucormycosis Syndrome in India. *Indian Journal of Surgery* 2021
  13. Prasad S, Patel S, **Behera AK,** Naik G, Shah S, Nanda R, Eli M. Early Biochemical Markers in Predicting the Clinical Outcome of COVID-19 Patients Admitted in Tertiary Care Hospital in Chhattisgarh, India. *Journal of Laboratory Physicians*
  14. Haider NS, **Behera AK.** Respiratory sound Denoising using sparsity-assisted signal smoothing algorithm. *Biocybernetics and Biomedical Engineering*; 42(2022):481-493
  15. Dantis K, **Ranganath TG.** Lymphangiolo myomatosis. *J Clin Images Med Case Rep.* 2021; 2(5): 1378.
  16. Klein Dantis, Ashish Kumar Gupta, Nitin Kumar Kashyap, Yashwant Kashyap, **T.Ganga Ranganath,** Saroj Kumar Pati, Mayank Kumar, Shiva Thakur, Mudalsha Ravina, Pulmonary sclerosing pneumocytoma masquerading adenocarcinoma with co-existing BRAF V600E and PTEN mutation, *Cancer Treatment and Research Communications*, Volume. 2021; 28: 100429.
  17. Klein D, **G. Ranganath T.** Ruptured hydatid cyst presenting as recurrent pneumothorax with co-existing pulmonary tuberculosis and uniportal thoracoscopic management: first Indian report. *Kardiochirurgia i Torakochirurgia Polska/Polish Journal of Thoracic and Cardiovascular Surgery.* 2021;18(3):183-185.
  18. Pratibha Sharma, **Ranganath T Ganga.** Anti-IgE Monoclonal Antibody in Allergic Bronchopulmonary Aspergillosis Not Responding to Systemic Steroids. *J Health Allied Sci NU* 2021;11:204–206.

### Abstracts Published in Journal(s):

1. Tinu Lukose, **Sajal De, Ranganath Ganga,** et al. Lung perfusion SPECT/CT imaging in post COVID-19 pneumonia: the spectrum of imaging findings. *Journal of Nuclear Medicine* May 2021, 62 (supplement 1) 2021

## PATIENT CARE

### Facilities available in the department.

The Department of Pulmonary Medicine provides OPD and IPD services, critical respiratory care, bronchoscopy, polysomnography, pulmonary rehabilitation, and 24 hr Emergency services.

OPD	IPD
13537	1102

Investigations and procedures-

No.	Procedures	Total patients
1.	Pulmonary function test	2833
2.	Polysomnography	39
3.	Bronchoscopy	416
4.	Thoracoscopy	62
5.	Body Plethysmography	458
6.	DLCO	441
7.	Impulse Oscillometry	426
8.	6 minute walk test	363
9.	Skin Prick Test	74
10.	Ultrasonography	570

4. NTEP – Total slide examined for M Tb- 2493  
Positive cases - 98  
Patients put on DOTS- 163

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Dr. Sajal De

Deputed as a Central Team member to assist the Korba district of Chhattisgarh in controlling COVID-19 pandemic. Delivered popular lecture on All India Radio, Raipur. He Chaired a session for Item Writing Workshop on 01.10.2021 organized by NBMES, New Delhi.

### Dr. Ajoy Kumar Behera

Honorable Governor Appreciation Award for COVID care and Control. Honorable Chief Minister of Chhattisgarh Appreciation Award for COVID care and Control. Chairperson of State Task Force (NTEP) for State of Chhattisgarh. Principal Investigator, National Environmental Pollution Control, Govt of India. Principal Investigator for ICMR's Network of Pulmonary Fibrosis (INPF). Nodal Officer for COVID-19 in AIIMS, Raipur during COVID pandemic

situation. Organizing secretary in National symposium on Pulmonary Medicine Update- 2021. Master Trainer in COVID-19 Management(Clinical Excellence Programme) in State of Chhattisgarh. Master Trainer for National Training of Trainers in Guidelines for PMDT in India-2021 in State of Chhattisgarh. Appreciation Award for COVID-19 by NariVikasSamiti, Birgaon(CG). Organized Mega-Health camp on occasion of World COPD day. Organized sensitization Programme for NTEP guideline for students, nursing officers, residents & faculties. Organized 10 days Clinical Excellence Programme for Management of COVID-19 in State of Chhattisgarh.

### Dr. Ranganath.T.G:

He Chaired session at MEDRECON 2022 for the topic Consent in Patient Care, Challenges and Issues of Health Information System Architecture in India Special Reference to Indian System of Medicine & Documentation in Emergency Medicine Department-Problems and Solutions on 11.03.2022 Organised by Dept of Medical Records AIIMS Raipur. He Chaired a session for the topic Air Pollution and Asthma at the National Asthma Update on 05.05.2022 organized by KGMU Lucknow. He Chaired a session for the topic Post Covid Sequelae and Covid Vaccination at the 2<sup>nd</sup> National Pulmonary Postgraduate Conference on 26.09.2022 organized by KGMU Lucknow. Honorable Governor Appreciation Award for COVID care and Control. Member of Scientific advisory committee MEDRECON 2022 (21<sup>st</sup> annual national conference of medical records). Member of Multidisciplinary COVID team for Ministry of Health and Family welfare, Govt of India, to Chhattisgarh, Tripura and Karnataka. He delivered Public Awareness Lecture on Air Pollution and Lung Health, How to Live With Asthma & Common Sleep Disorders and its Solutions at the Doctor Session on 06.03.2022, 05.12.2021 & 26.09.2021 resectively, organised by Chhattisgarh Satsang Group Raipur.

### Dr. Dibakar Sahu:

He participated in Panel Discussion on Post Covid Complications at E-CME Organised by Chest Council of India on 03.06.2021.

# Department of Radio-diagnosis

## Professor & Head

Dr. Narendra Kuber Bodhey

## Assistant Professors

Dr. Saroj Kumar Pati

Dr. Nilesh Gupta (till 21.08.2021)

## HIGHLIGHTS

The department of Radiodiagnosis is well equipped with all state of the art equipments like, Digital Radiography (1000 mAs DR), Digital radiofluoroscopy (DRF), , High End Elastography USG machine, USG Doppler, Multidetector CTs (128 slice and 256 slice), Digital Subtraction Angiography, MRI 3 tesla, Digital Mammography system, Digital OPG, Portable X-ray machines, Computed Radiography system. In addition to the infrastructure development, the post graduate MD incumbents in Radiology were 10 by the end of March 2022. Five students were admitted to the B.Sc. Radiography course in this year. The passed out students are so far are 6 MD (Radiodiagnosis) residents and two PDCC residents. Department faculty and the residents attended the state chapter of Indian Radiology and Imaging Association held in Raipur October 2021.

## ACADEMIC COURSES CONDUCTED BY THE DEPARTMENT:

1. PDCC (Cardiothoracic and Vascular Imaging and Interventional Radiology)

2. MD Radiodiagnosis.
3. B.Sc. Medical Technology in Radiography.
4. Collaborative Ph.D. Course with National Institute of Technology, Raipur.

## EDUCATION

### Undergraduate:

Classes for undergraduate M.B.B.S. students: -22.

Theory classes for undergraduate B.Sc. Technology (Radiography) students:-60.

Practical classes for undergraduate B.Sc. Technology (Radiography) students:- 130.

### Post-Graduate:

Seminars for Junior & Senior Residents:- 32.

Case Presentations(includes long and short cases):- 150.

Film Reading sessions:- 160.

Interdepartmental sessions:- 45.

Procedure Teaching:- 35.

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Prof.(Dr.) Narendra Bodhey

S. No.	Title	CME/Conference	Date	Organised by
1.	<b>Radiology in Covid</b>	Online training workshop for Chhattisgarh State	12.06.2021	Centre of Research Excellence, AIIMS Raipur
2.	Intervention Radiology: Current Status & Challenges in India	2 <sup>nd</sup> Radiology and Imaging Summit	23.06.2021	eHealth, eLETSTechnomedia, Noida
3.	e-Learning in Radiology: the scope and challenges	2 <sup>nd</sup> Radiology and Imaging Summit	24.06.2021	eHealth, eLETSTechnomedia, Noida



S. No.	Title	CME/Conference	Date	Organised by
4.	Scope of Artificial Intelligence in Radiology	CME on Artificial Intelligence in Health Care	8.7.2021	AIIMS Raipur
5.	Imaging modalities for Stroke	Stroke Management workshop	12.11.2021	NPCDCS, Directorate of Health Services, Chhattisgarh
6.	Radiology Education in India	The Radiology and Imaging Conclave, Virtual Conference	09.12.2021	Express Healthcare
7.	Imaging modalities for Stroke	Stroke Management workshop	11.03.2022	State Institute of Health and Family Welfare
8.	Chaired a session on the International code of disease	MEDRECON 2022, CME on Medical Records	11.03.2022	Department of Medical Records, AIIMS Raipur
9.	Imaging modalities for Stroke	Stroke Management workshop	16.03.2022	State Institute of Health and Family Welfare

## ORAL PAPERS/ POSTERS PRESENTED

S. NO.	Authors	Title	Conference	Date	Organised by
1.	Adarsh AK, <b>Bodhey NK, Pati SK</b> , Kumar A, Hussain N	Analysis of advanced MRI techniques in differentiating low grade and high grade gliomas with a flavour of radiogenomics.	Annual Conference of the Chhattisgarh Chapter of the Indian Radiology and Imaging Association	30.10. 2021	CG chapter of IRIA
2.	Adarsh AK, <b>Bodhey NK, Pati SK</b> , Gupta N, Kumar A, Hussain N	Bilateral cerebellopontine angle lymphomas- Think beyond schwannomas and meningiomas!	Annual Conference of the Chhattisgarh Chapter of the Indian Radiology and Imaging Association	30.10. 2021	CG chapter of IRIA
3.	Adarsh AK, <b>Bodhey NK, Pati SK</b> , Nagarkar NM, Raghani MK, Gupta Rakesh.	Plexiform Schwannoma of the facial nerve: A rare lesion of the parotid not from the parotid.	Annual Conference of the Chhattisgarh Chapter of the Indian Radiology and Imaging Association	30.10. 2021	CG chapter of IRIA
4.	Adarsh AK, <b>Bodhey NK, Pati SK</b> , Gupta Nilesh, Sharma AK, Chowhan Amit Kumar	Juvenile ossifying fibroma of the calvarium: a psammomatoid lesion, less heard of.	Annual Conference of the Chhattisgarh Chapter of the Indian Radiology and Imaging Association	30.10. 2021	CG chapter of IRIA
5.	Shusovan Sardar, <b>Bodhey NK</b>	Criss cross heart: A rare congenital heart disease.	Annual Conference of the Chhattisgarh Chapter of the Indian Radiology and Imaging Association	30.10. 2021	CG chapter of IRIA
6.	Adivemma P, <b>Bodhey NK, Pati SK</b> , Biswal DK, Gupta Ashish	<b>Adult Wilms tumor: A rare case report.</b>	Annual Conference of the Chhattisgarh Chapter of the Indian Radiology and Imaging Association	30.10. 2021	CG chapter of IRIA
7.	Adivemma P, <b>Bodhey NK, Pati SK</b> , Biswal DK, Satarkar R	<b>Leiomyosarcoma of the inferior vena cava.</b>	Annual Conference of the Chhattisgarh Chapter of the Indian Radiology and Imaging Association	30.10. 2021	CG chapter of IRIA
8.	Jubin J, <b>Bodhey NK, Pati SK</b> , Arora RD, Sharma A K	Tumor mimicking juvenile nasopharyngeal angiofibroma	Annual Conference of the Chhattisgarh Chapter of the Indian Radiology and Imaging Association	30.10. 2021	CG chapter of IRIA

S. NO.	Authors	Title	Conference	Date	Organised by
9.	Sonia Thanakaivelu, <b>Bodhey NK, Pati SK</b> , Rajbahar S	Coexistence of extra-uterine pelvic arteriovenous malformation in an associated adnexal mass lesion – A very rare occurrence	Annual Conference of the Chhattisgarh Chapter of the Indian Radiology and Imaging Association	30.10. 2021	CG chapter of IRIA
10.	Sood P, <b>Bodhey NK, Pati SK</b> , Hussain N, Sharma AK.	Foramen magnum mirror meningiomas- a very rare entity.	Annual Conference of the Chhattisgarh Chapter of the Indian Radiology and Imaging Association	30.10. 2021	CG chapter of IRIA
11.	Reddy S, <b>Bodhey NK, Pati SK</b> , Satyajit S, G Saurabh.	Isolated Pulmonary arteries involvement in a child with Takasayu Arteritis.	Annual Conference of the Chhattisgarh Chapter of the Indian Radiology and Imaging Association	30.10. 2021	CG chapter of IRIA
12.	Reddy S, <b>Bodhey NK, Pati SK</b>	A case of short limb dwarfism – Achondroplasia.	Annual Conference of the Chhattisgarh Chapter of the Indian Radiology and Imaging Association	30.10. 2021	CG chapter of IRIA
13.	Beniwal N, <b>Bodhey NK, Pati SK</b> .	Osteopetrosis: Brothers with Dense Bones	Annual Conference of the Chhattisgarh Chapter of the Indian Radiology and Imaging Association	30.10. 2021	CG chapter of IRIA
14.	Tiwari A, <b>Bodhey NK, Pati SK</b> .	Encephalotrigeminal Angiomatosis: Case report.	Annual Conference of the Chhattisgarh Chapter of the Indian Radiology and Imaging Association	30.10. 2021	CG chapter of IRIA
15.	Logeshwar, <b>Pati SK, Bodhey NK, Gupta N</b> , Agrawal AC.	Type IV radial hemimelia with club hand.	Annual Conference of the Chhattisgarh Chapter of the Indian Radiology and Imaging Association	30.10. 2021	CG chapter of IRIA
16.	Mondal K, <b>Pati SK, Bodhey NK</b> , Bagde NK.	Role of Diffusion Weighted Imaging and Dynamic Contrast Enhance MRI for Pre-Operative assessment of Endometrial Carcinoma	Annual Conference of the Chhattisgarh Chapter of the Indian Radiology and Imaging Association	30.10. 2021	CG chapter of IRIA
17.	Karthika C, <b>Pati SK, Bodhey NK</b> . <b>2<sup>nd</sup> prize</b>	Assessment of Spectrum of Multiparametric Breast MRI in Characterisation of Breast Lesions	Annual Conference of the Chhattisgarh Chapter of the Indian Radiology and Imaging Association	30.10. 2021	CG chapter of IRIA

## RESEARCH

### Funded Project

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year- End year	Total funds sanctioned (Rs.)
1.	Computer Aided Detection of Breast Lesions: A Study On Different Imaging Modalities.	Prof. (Dr) Narendra K. Bodhey.	Intramural	2 Years	2020 – 2022	4,99,000/-.

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
2.	Development Of Breast Cancer Risk Assessment System In Women Using Advanced Artificial Intelligence Techniques: A Pilot Study.	<b>Co-PI:</b> Prof. (Dr) Narendra K. Bodhey. In collaboration with NIT Raipur.	ICMR	3 Years	Feb 2021- Feb 2024	6,45,000/-
3.	Assessment Of Prevalence Of Circle Of Willis Variation In Healthy Subjects – An Institutional Study.	Dr. Saroj K. Pati	Intramural	2 years	2020- 2022	4,80,000/-

### Departmental Projects (including thesis/dissertations)

#### Non-Funded

#### On-going

S. No.	Title
1.	MR Imaging Spectra in Complex Renal Lesions with 3 Tesla MRI
2.	Characterisation of Prostatic Lesion on Multiparametric MRI.
3.	Multidetector computed tomography and ultrasonography correlation in severity assessment of acute pancreatitis.
4.	Multiparametric magnetic resonance imaging characterisation of oral and oropharyngeal mucosal lesions.
5.	Spectrum of advanced MRI parameters in various posterior fossa tumours with 3T MRI.
6.	Spectrum of Chest CT findings beyond 3 months of moderate to severe covid state
7.	Imaging Spectrum in Covid Associated Rhino-orbital-cerebral Mucormycosis
8.	Retrospective Analysis of Radiographic Patterns in COVID-19 Patients
9.	Correlation of computed tomographic pulmonary angiography & echocardiographic parameters in suspected patients of pulmonary thromboembolism.

### Departmental Projects (including thesis/dissertations)

#### Non-Funded

#### Completed

S. No.	Title
1.	Assessment of ventricular function and late gadolinium enhancement patterns in patients of non-ischemic cardiomyopathy with 3Tesla MRI
2.	Evaluation of Diffusion Weighted MR Imaging and Diffusion Tensor Imaging in Spinal Tuberculosis with 3 Tesla MRI
3.	Differentiation Between Classic and Atypical Meningiomas by Diffusion Tensor Imaging and Diffusion Weighted Imaging with 3 Tesla MRI
4.	Role of Diffusion Weighted Imaging and Dynamic Contrast Enhance MRI for Pre-Operative Assessment of Endometrial Carcinoma.
5.	Differentiation of Intraaxial Brain Tumours Using Diffusion Weighted Imaging, Diffusion Tensor Imaging and Perfusion Imaging.

S. No.	Title
6	Assessment of Spectrum of Multiparametric Breast MRI in Characterisation of Breast Lesions.
7.	Estimation of Plasma Interleukin-33 Level in Sickle Cell Disease Patients with Hip Osteonecrosis.
8.	Randomised control trial comparing ultrasound guided therapeutic transcuteaneous aspiration and slandered incision drainage (I & D) in PVL toxin producing staphylococcal aureus superficial soft tissue abscess in paediatric patients: a hospital based pilot study.

## Collaborative Projects

### Ongoing

S. No.	Title	Collaborating Department/ Institution
1.	HTA of National Stroke Care Registry Programme development of Hospital Based Stroke Registries (HBSR) in different regions of India – 5 years	Department of General Medicine and ICMR
2.	Computer Aided Detection of Breast Lesions: A Study On Different Imaging Modalities.	Dept of Biomedical Engineering, NIT, Raipur.
3.	Deep Learning Based Corpus Callosum Segmentation and its Application in Detection of Diseases.	Dept of Electronics & Telecommunication, NIT, Raipur.
4.	To study the efficacy of uni-portal video assisted thoracoscopic lung biopsy in the management of interstitial lung disease.	Department of Cardiothoracic and Vascular Surgery, AIIMS-Raipur.
5.	ICMR's network of pulmonary fibrosis.	Multi-institutional collaborative study in association with department of Pulmonary Medicine, AIIMS-Raipur.
6.	Effect of body fat percentage on non-alcoholic fatty liver disease & its relation with nerve conduction parameters in health care shift workers-	Department of Physiology, AIIMS Raipur
7.	Comparison of oral Tamoxifen versus Centchroman in reducing the size of fibroadenoma in adolescent and middle aged ladies	Department of General Surgery, AIIMS Raipur.
8.	Effect of Caudal epidural steroid injection on electrodiagnostic parameters in patients with lumbosacral radiculopathy: a double blinded randomised control trial	Department of Physical Medicine and Rehabilitation, AIIMS Raipur.
9.	Extent of pelvic lymphadenectomy during radical cystectomy – A multi-insitutional open label Randomized trial between standard and extended pelvic lymphadenectomy in muscle invasive bladder cancer.	Department of Urology, AIIMS Raipur
10.	Corelation of Arthroscopy based femoral intercondylar notch dimensions in patients with anterior cruciate ligament insufficiency (ACL) with MRI based measurements and cadaveric measurements of intercondylar notch with intact anterior cruciate ligament.	Department of Orthopaedics, AIIMS Raipur
11.	Comparison of mini percutaneous vs retrograde intrarenal surgery in renal stone less than 2 cm.	Department of Urology, AIIMS Raipur
12.	Pilot Study-Clinical, pathological and radiological correlation of mandibular invasion in carcinoma oral cavity	Department of ENT & HNS, AIIMS Raipur
13.	Comparison of two different doses of intranasal dexmedetomidine for paediatric procedural sedation a prospective study	Department of Anaesthesiology, AIIMS Raipur
14.	A comparative study between botulinum toxin type A vs tendoachillis surgical tenotomy in the management of idiopathic clubfoot by Ponseti method". A randomized prospective interventional study.	Department of orthopaedics, AIIMS Raipur

S. No.	Title	Collaborating Department/ Institution
15.	Prevalence Of Respiratory Dysfunction Amongst Cerebral Palsy Patients in A Tertiary Care Hospital of Central India.	Department of Physical Medicine & Rehabilitation, AIIMS Raipur
16.	Positron Emission Tomography (PET) with Contrast Enhanced Computerized Tomography (CECT) versus Magnetic Resonance Imaging (MRI) for Initial Evaluation of Oral Cancers - A Three Parallel Arm Randomized Control Trial and Meta-Analysis : ORCID - M Trial	Department of ENT, AIIMS Raipur
17.	Stage based integrated management using Barcelona protocol versus conventional management of fetal growth restriction and perinatal outcome: A randomized controlled trial”	Department of Obstetrics & Gynaecology, AIIMS Raipur

## PATIENT CARE

The department, in addition to the ongoing services, continued to provide round the clock services to the covid block as well.

The total number of investigations in this year are mentioned below:

Investigation / Procedures		Total
X-Ray		96759
Portable X-Ray		10980
Portable X-Ray (Covid ward)		3447
USG	General USG	10107
	Doppler	3057
	ANC	1958
CT Scan	General CT Scan	10107
	Angiography	3057
	Covid ward	1958
MRI	General MRI	2593
	Special MRI (DTI, MRS, etc)	263
	Contrast MRI	1141
OPG		3535
Mammography		314
Contrast X ray procedure (MCU, RGU & Sinogram)		333
Image guided Interventional Radiology Procedure (DSA, CT Scan & USG)		488
Investigation Under anesthesia	MRI	168
	CT scan	74
OPD (Direct OPD + Cross consultation)		609

## PUBLICATIONS

1. Agrawal, A. C., Mohapatra, E., Nanda, R., **Bodhey, N. K.**, Sakale, H., & Garg, A. K. (2022). Plasma Interleukin-33 Cannot Predict Hip Osteonecrosis in Patients With Sickle Cell Disease: A Case-Control Study. *Cureus March 2022 Mar 28;14(3):e23556*. doi: 10.7759/cureus.23556. PMID: 35371856; PMCID: PMC8971072.
2. Chandra A, Verma S, Raghuvanshi AS, **Bodhey NK**. CCsNeT: Automated Corpus Callosum segmentation using fully convolutional network based on U-Net. *Biocybernetics and Biomedical Engineering*. 2022 Volume 42(1):187-203.
3. Atrey K, Singh BK, Roy A, **Bodhey NK**. Real time automated segmentation of breast lesions using CNN based deep learning paradigm: Investigation on mammogram and ultrasound. *International Journal of Imaging Systems and Technology*. 2021 Dec 23 <https://doi.org/10.1002/ima.22690>
4. **Pati S**, Raja P, Behera AK, Ranganath TG, **Bodhey NK**. Osteopetrosis in a patient of systemic sclerosis sine scleroderma: A rare association. *The Indian Journal of Radiology & Imaging*, 01 Oct **2021**, 31(4):1019-1022; DOI: 10.1055/s-0041-1740506
5. Dantis K, Gupta AK, Kashyap NK, Kashyap Y, Ranganath TG, **Pati SK**, et al. Pulmonary sclerosing pneumocytoma masquerading adenocarcinoma with co-existing BRAF V600E and PTEN mutation. *Cancer Treat Res Commun*. 2021; 28:100429. doi: 10.1016/j.ctarc.2021.100429. Epub 2021 Jun 29. PMID: 34246179 (**Published: 29-06-2021**)
6. Das E, Singh V, Agrawal S, **Pati S K**. Prediction of Preeclampsia Using First-Trimester Uterine Artery Doppler and Pregnancy-Associated Plasma Protein-A (PAPP-A): A Prospective Study in Chhattisgarh, India. *Cureus* 2022 February 08; 14(2): e22026. doi:10.7759/cureus.22026 (**Published: 08-02-2022**)
7. Ganga RT, Ravina M, Sahu D, Gupta RK, **Pati SK**. 18F-labeled fluoro-2-deoxyglucose positron emission tomography and computed tomography in a large pulmonary sclerosing pneumocytoma with contralateral lung metastasis. *Indian J Nucl Med* 2022;37:103-4. (**Published: 25-03-2022**)
8. Dantis K, Rathore V, Kashyap NK, **Gupta Nilesh**, De Sajal, Singha SK. SARS-CoV-2 Sequel: Pulmonary Mucormycosis with a Mycotic Aneurysm in a Transplant recipient. *Tuberc Respir Dis (Seoul)*. 2021 Oct; 84(4): 335–337.
9. Dantis K, Rathore DK, **Gupta Nilesh**, Singha SKBochdalek hernia and partial Diaphragmatic agenesis: Pedicled Intercostal Muscle flap and mesh repair in a young adult with sickle cell disease case report e363 . *Surg J (NY)* 2021 Dec 23; 7(4):e363-e365 doi: 10.1055/s-0041-1740628

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

1. **Dr. D Karthika** – final year MD resident of the department was **awarded the second prize** for the platform paper At the Annual Conference of the Chhattisgarh Chapter of Indian Radiology and Imaging Association, November 2021.**Karthika D, Pati SK, Bodhey NK** Assessment of Spectrum of Multiparametric Breast MRI in Characterisation of Breast Lesions..
2. **Dr. Narendra Bodhey**
  - a. **Promising Radiology Administrator (Government)** Award of Excellence at the 2<sup>nd</sup> Radiology and Imaging Summit 23-24<sup>th</sup> June 2021
  - b. Member of the Departmental Academic Committee of the Dept of Biomedical Engineering, National Institute of Technology, Raipur.
  - c. Member of the Ethics committee of NIT Raipur
  - d. Reviewer on the American Journal of Roentgenology, Indian Journal of Radiology and Imaging, Annals of Cardiac Anaesthesia.
  - e. A Guide/Supervisor for the PhD projects at NIT Raipur.

# Department of Radiotherapy

## Additional Professor & Head

Dr. Siddhartha Nanda

## Assistant Professor

Dr. Manish Kumar Ahirwar (From 11.12.2021)

## HIGHLIGHTS

The department is providing state of the art linear accelerator based external beam radiotherapy treatment for cancer patients. The department is performing radical, adjuvant, and palliative radiotherapy with or without concurrent chemotherapy as per indications. The Department of Radiotherapy consists of a highly qualified and experienced team of Radiation Oncologists, Medical Physicists and Radiation therapy technologists, backed by state-of-the-art equipment capable of delivering a precise dose of radiation accurately to the tumour with minimum damage to normal structures. The department has upgraded its technology from time to time and currently offering the entire range

of services, including 3D conformal radiotherapy (3DCRT), Intensity Modulated Radiotherapy (IMRT), Image Guided Radiotherapy (IGRT), Volumetric Arc Therapy (VMAT), and Brachytherapy. The department is equipped with the latest Elekta Versa HD LINAC, GE CT Simulator & Monaco treatment planning system. Ir-192 based HDR brachytherapy unit (Neucletron) has been established along with Oncentra contouring and planning work station.

## EDUCATION

Students from Royal college of Pharmacy did a 15 day clinical attachment and training in the department from 12.10.2021 to 03.11.2021.

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES

S. No.	Title	CME/Conference	Date	Organized By
1.	World Cancer Day Celebration	CME	04.02.2022	College of Nursing & Department of Radiotherapy
2.	Cancer Biology & Current Therapeutics	CME	18.08.2021	Department of Radiotherapy & AMITY University, Chhattisgarh
3.	Haematodote- Lymphoma Management	CME	25.06.2021	Department of Radiotherapy & BALCO Medical Centre, Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Siddhartha Nanda

S. No.	Title	CME/Conference	Date	Organized By
1.	Close The Care Gap	World Cancer Day Celebration and CME	04.02.2022	College of Nursing & Department of Radiotherapy,

S. No.	Title	CME/Conference	Date	Organized By
2.	Cancer Biology & Current Therapeutics	Recent Trends & Techniques in Cancer Therapy	18.08.2021	AMITY University, Chhattisgarh
3.	IFRT Current Indications in Lymphoma	Haematodate- Lymphoma Management	25.06.2021	BALCO Medical Centre, Raipur

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organized By
1.	Mishra SS, Nanda S, Ahirwar MK	A Dosimetric Comparison of VMAT & IMRT for Breast Cancer Radiotherapy after MRM	ASOMACON 2021	12-14.11.2021	BALCO Medical Centre, Raipur
2.	Raveena M, Nanda S, Shukla AK, Krishna S, Lukos T, Moideen A et al	Role of 18 FDG PET CT in Initial Staging & Prediction of Bone Marrow Involvement in correlation with Bone Marrow Study	19 <sup>th</sup> ANMPICON	17-19.09.2021	AIIMS, Bhubaneswar

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	Pegfilgrastim Induced Bone pain Incidence: A Prospective Institutional Study	Dr. Siddhartha Nanda	AIIMS, Raipur	3 years	2020-23	4,91,150/-
2.	Efficacy, Safety, and Pharmacokinetics of Leuprolide Acetate for Injection 3.75mg (Depot) Administered in Subjects with Advanced Adenocarcinoma of Prostate: A Randomized, Active Controlled, Comparative, Open Label, Multi-Center, Phase 3 study.	Dr. Siddhartha Nanda	Bharat Serums & Vaccines Ltd	08 months	2022-2023	5,00,000/- approx

### Departmental Projects –Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations

#### Ongoing

S. No.	Project
1.	Prevention of Extravasation of Chemotherapeutic Agents by Infusing Normal Saline Prior to Starting Chemotherapy
2.	Multiparametric MR Characterization of Oral and Oropharyngeal Lesions
3.	Role of 18F-FDG PET/CT in Initial Staging and Prediction of Bone Marrow Involvement in Patients with Newly Diagnosed Lymphoma in Correlation with Bone Marrow Study



**Completed**

S. No.	Project
1.	Clinico-epidemiological Patterns of Breast Cancer Patients Attending a Tertiary Care Hospital in Central India
2.	Assessment of Baseline Cardiac Autonomic Functions in Cancer Patients

**Collaborative Projects****Ongoing**

S. No.	Project	Collaborating Department/Institution
1.	Hospital Based Cancer Registry, AIIMS, Raipur	NCDIR, Bangalore, Department of ENT & HN Surgery & Department of Pathology
2.	Triple Negative Breast Cancer; Immunohistochemistry Based Genomic Profiling and Correlation with the Histomorphology and Outcomes	Department of Pathology, AIIMS, Raipur
3.	Factors Determining the Efficacy of Guided Intervention Based Conservative Management of Shoulder Adhesive Capsulitis Secondary to Mastectomy and Radiation Therapy: A Retrospective Cohort Study in A Tertiary Care Centre of Central India	Department of PMR, AIIMS, Raipur

**Completed**

S. No.	Project	Collaborating Department/Institution
1.	Profile of Cardiovascular Autonomic Dysfunction in Breast Cancer Patients	Department of Physiology, AIIMS, Raipur

**PUBLICATIONS**

- Nanda S, Dash D, Sahu AK et al. (2022) Prostate Cancer: A Short Discussion. Journal of Hospital Pharmacy, March Supplement Issue-C; 12-19.**

**PATIENT CARE**

	OPD	IPD	Minor OT	Other facility
Total	4334	1515	152	Number of Brachytherapy Treatments Delivered 152
				Number of Moulds prepared 276
				Number of CT Simulations done 675

**AWARDS, HONOURS AND SIGNIFICANT EVENTS**

- Dr. Siddhartha Nanda received first prize for using maximum number of Hindi words in

official dictation and Dr. Shiv Shankar Mishra, Senior Resident received 07 awards in various categories of competition during Hindi Pakhwada held between 02.09.2021 to 13.09.2021. Monaco Refresher Training was conducted

for all Consultants and Senior Residents from 05.07.2021 to 06.07.2021. Brachytherapy Oncentra on-site training was conducted for Medical Physicists from 15.07.2021 to 17.07.2021. Dr. Siddhartha Nanda participated as Chairperson in CME 'Proton therapy for Improving Outcome & Decreasing Toxicity' held

by Apollo Clinic, Raipur on 25.03.2022. He was the judge for Quiz competition for Post Graduates during North Zone AROI Conference held on 22.02.2022. He also participated as a panelist for panel discussion on 'Multiple Myeloma Current Practices & Beyond' organized by BALCO Medical Centre, Raipur on 18.09.2021.

# Department of Transfusion Medicine & Blood Bank

## Additional Professor and In-charge

Dr. Sankalp Sharma

## Associate Professor

Dr. Ramesh Chandrakar

## Assistant Professor

Dr. Minal Wasnik

## HIGHLIGHTS

The department started leukapheresis and therapeutic plasma exchange procedure by apheresis in the department. The department expanded its services by procurement of the cell separator equipment and performing regular Single Donor Platelets collection. The department also procured Chemi Luminescence Immuno Assay (CLIA) platform, Transfusion Transmitted Infections testing which further improves the blood safety. The blood collections in year 2021-22 was affected by SARS-COV-2 pandemic. However, the blood needs of our hospital were sustained by campaign for voluntary

donations and organizing 'blood donation camps'.

## EDUCATION

The Department conducted the final postgraduate examination and our first MD (TM) student passed out of the department successfully. The department also conducted its first examination of BSc MLT Batch. Due to ongoing SARS-COV-2 pandemic, the department continued its undergraduate & postgraduate teaching in an online mode. The department continued with its interdepartmental teaching by organizing novel mannequin based teaching with the Department of Trauma and Emergency.

## LECTURE DELIVERED AT CME, NATIONAL & INTERNATIONAL CONFERENCE

Dr. Sankalp Sharma

S. No.	Title	CME/Conference	Date	Organised By
1.	Rational Blood Transfusions in Sickle Cell Disease	World Sickle Cell Day CME	19.06.2021	Department of Pediatrics, AIIMS Raipur

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Sharma S	To Analyse Platelets, Fresh-Frozen Plasma Transfusions Among Children in the First Two Years of Life and Propose Best Practice Recommendations for the Age-Group	62nd Annual Conference of Indian Society of Hematology & Blood Transfusion (ISHBT)	10-13.11.2021	Indian Society of Hematology & Blood Transfusion

S. No.	Authors	Title	Conference	Date	Organised By
2.	Sharma S	<i>A Buzz Group Discussion on Donor Health Questionnaire</i>	ISBSQ 2022, Virtual CME on Blood Safety and Quality	26.03.2022	Organised by AIIMS Delhi and ISBT
3.	<b>Wasnik M.</b>	A One-Year Study of Blood Donation & Utilization in a Tertiary Care Teaching Hospital in Midst of COVID-19 Pandemic. (Oral paper)	46 <sup>th</sup> Annual National Conference of Indian Society of Blood Transfusion & Immunohematology (ISBTI) TRANSCON 2022.	12-13.03.2022	Indian Society of Blood Transfusion & Immunohematology (ISBTI)
4.	<b>Wasnik M, Chandrakar R, Lahare S.</b>	Study of Demographic Characteristics of Deferred Donors With Respect to COVID-19 in a Blood Bank of a Teaching Hospital.	9 <sup>th</sup> Annual National Conference of Indian Society of Transfusion Medicine (ISTM) TRANSMEDCON 2021.	17-18.12.2021	Indian Society of Transfusion Medicine (ISTM)
5.	<b>Chandrakar R, Lahare S, Wasnik M</b>	Weak Subgroup of AB Blood group: A case report	16 <sup>th</sup> Annual AATM Congress & 3 <sup>rd</sup> Joint AABB-AATM Congress	03-04.12.2021	AABB-AATM
6.	Jain A, Tejaswani P, <b>Wasnik M, Kashyap Y.</b>	Transfusion Burden In Acute Leukemia Patient Receiving Chemotherapy In A Tertiary Health Care Centre In Central India	16 <sup>th</sup> Annual AATM Congress & 3 <sup>rd</sup> Joint AABB-AATM Congress	03-04.12.2021	AABB-AATM
7.	<b>Lahare S, Chandrakar R, Wasnik M</b>	A intermediate B (AintB) group: A case report	Transmedcon 2021 Guwahati,	17-18.12.2021	Indian Society of Transfusion Medicine (ISTM)

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
1.	To analyse Hemostatic parameters of Platelet and Fresh-frozen Plasma transfusion among the children during the first two years of life and propose best practice recommendations for The age-group.	Dr. Sankalp Sharma	Chhattisgarh Council of Science and Technology (CCOST)	2	2020-2022	2 Lakh fifty Thousand
2.	To analyse the erythrocyte and platelet storage lesions within the stored blood and estimate the coagulopathy potential of Blood transfusions to the multi-transfused patients	Dr. Sankalp Sharma	AIIMS Raipur	1	2020-2022 (Extended)	5 Lakh

S. No.	Project	Principal Investigator	Funding Agency	Duration (Years)	Start Year-End Year	Total Funds Sanctioned (Rs.)
3.	A study on subtypes of Blood Group A at AIIMS, Raipur Chhattisgarh.	Dr. Minal Wasnik	AIIMS, Raipur	1	2021-2022	Rs. 5 lakhs

## Departmental Projects – Non-Funded Projects/ ICMR-STs Projects/ Thesis/Dissertations

### Ongoing

S. No.	Project
1.	Study of Prevalence of Major Rh (Rhesus) Blood Group System Antigens in Donors at a Tertiary Health Care Centre in Central India.
2.	In vitro assessment of quality parameters of platelets during the extended period of storage
3.	A comparison study of salt-water loading and isometric exercises with only plain water ingestion in preventing vasovagal reactions among blood donors
4.	Role of Patient Blood Management Checklist in improvement of patient specific objectives
5.	Evaluation of Clinical Factors Affecting Corrected Count Increment on 1-Hour and 24-Hour After Platelet Transfusion.
6.	Analysis of pre donation and post donation hematological parameters in plateletpheresis donors at tertiary care hospital of central India.

### Completed

S. No.	Project
1.	To Study Multiple Blood Transfusion Recipient Sickle Cell Disease Patient for Allo-Immunization Status.
2.	Assessment of the Impact of Covid-19 on Drug Store management in a Tertiary Care Teaching Hospital of Central India

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/ Institution
1.	Rate of tooth movement in injectable PRP as compare to Micro-osteoperforation in orthodontic patient – An Open label Randomized Controlled Trial	Department of Dentistry; AIIMS Raipur
2.	Extramural project of Pradhan Mantri Matya Sampda Yojna (PMMSY) AIIMS Raipur- NCDC Telemedicine facility for fishermen & fisherwomen – to improve the access to modern health care by rural inhabitant members of cooperatives.	National Cooperative Development Corporation (NCDC)

## PUBLICATIONS:

1. **Sharma S**, Verma A, Shukla AK. Original article To formulate baseline thresholds for the initiation of RBC transfusion in elective surgical patients: an observational study at a tertiary care center. J Hematol Transfus Med. 2022;32:27–34
2. **Wasnik M**, Lahare S, Jagzape T, Chandrakar RK. Blood group discrepancy in mixed-type autoimmune hemolytic anemia in a pediatric patient. Asian J TransfusSci 2021;15:247-9.
3. Lahare S, **Wasnik M**, Chandrakar R. A intermediate (AINT) blood group with warm ANTI-A1 antibody: A case report. PP Transcon 2020 Abstracts Compilation. Asian J TransfusSci 2021;15, Suppl S1:16-89.
4. Padhan S, Pugazhenthant, **Chandrakar R**, Galhotra A, BorkarNK. Assessment of the Impact of Covid-19 on Drug Store management in a Tertiary Care Teaching Hospital of Central India. Cureus 13(11): e19723.

### Abstracts Published in Journal(s):

Sharma S, Padhi P, Shukla A Sharma, Ruchi, Prasad D. 62nd Annual Conference of Indian Society of Hematology & Blood Transfusion (ISHBT). Indian J Hematol Blood Transfus. 2021 Dec;37(S1):1–172.

## PATIENT CARE

Number of Blood Grouping	Number of Crossmatch Testing	Number of Blood Products issued	Number of Platelet rich plasma procedure performed	Or any other facility
8208	8591	Whole blood: 119	108	1). Therapeutic Leucapheresis: 01  2). Therapeutic Plasma Exchange: 03
		Packed Red Blood Cell: 5532		
		Random Donor Platelets: 3248		
		Fresh Frozen Plasma: 3404		
		Single Donor Platelets: 78		
		Cryo-poor plasma: 22		
		Cryoprecipitate: 328		
		Leucoreduced Packed Red Cell: 18		
8208	8591	12749	108	04

## AWARDS, HONOURS AND SIGNIFICANT EVENTS:

Post-graduate Junior Resident Dr. P. Tejeswini won a 'Consolation Prize' at the ISBSQ 2022 Virtual CME on Blood Safety and Quality.

# Department of Trauma and Emergency

## Assistant Professor and In-Charge

Dr. Chandan K Dey

## Assistant Professors

Dr. Varun Anand

Dr. Santosh K Rathia

Dr. Sanjay Singh Rawat (From 03.01.2022)

Dr. Sanjeev A S (From 25.01.2022)

## HIGHLIGHTS

The department had successfully trained 04 batches of Army Javans (Indo-Tibetan Border Police and Central Border Police Force) in basic emergency care, emergency drugs, hands-on training and live demonstration in triage area. 04 academic Junior Residents have joined the post-graduate course in “Emergency Medicine”.

Four CMEs conducted by the department. Second batch of one year certificate course of ‘Pre-Hospital Trauma Technician has passed out and successfully completed the training in 2022. Third batch has joined the institute. Bed side hands-on ultrasound training given to junior and senior residents. Training of nursing staff and junior residents of AIIMS in Basic Emergency Care (BEC) including BLS. Training in “triage” given to nursing staff and junior residents. Two batches of DM/super-specialty course in Pediatric Emergency Medicine (PEM) have joined the course. Two faculties from Department of Trauma and Emergency (Pediatrics) and one faculty

from Department of Pediatrics are official teachers of the course. Regular training, teaching and clinical demonstration to junior residents and interns of trauma and emergency. Residents of emergency medicines have been trained in emergency invasive procedure like Percutaneous Tracheostomy, ICD insertion, Pericardiocentesis, central line insertion, e-FAST and other Emergency Ultrasound etc.

## EDUCATION

Dr. Varun Anand has moderated and hosted the conference cum workshop ‘7<sup>th</sup> Emergency medicine Pediatric Advances and Recent Trends’ dated 06<sup>th</sup> December 2020. Concept and importance of triaging and intubation taught to junior residents, interns and undergraduates. Dr. Santosh K Rathia and Dr. Varun Anand have awarded fellowship in pediatric emergency from ACEE (Academic College of Emergency Experts) in the current year. Nursing officers training basic emergency care. Nursing students (2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> Year) were trained in Pediatric triage assessment with hands-on.

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL & INTERNATIONAL CONFERENCES

S. No.	Title	Organized by	Date
1	CME cum Workshop on “ECG in Emergency”	AIIMS Raipur	28.08.2021
2	CME cum Workshop on “PEM Triageing”	AIIMS Raipur	16.09.2021-18.09.2021
3	CME cum Workshop on “Triage at Emergency Department”	AIIMS Raipur	13.11.2021
4.	1 <sup>st</sup> Batch of ITBP training (workshop), 2 <sup>nd</sup> Batch of ITBP training (workshop), 3 <sup>rd</sup> Batch of ITBP training (workshop), 4 <sup>th</sup> Batch of ITBP and CRPF training (workshop)	AIIMS Raipur	16.08.21-30.08.21, 16.11.21-30.11.21, 15.12.21-29.11.21 & 16.03.22-31.03.22

S. No.	Title	Organized by	Date
5.	Pediatric Nursing Emergency Preparedness Programme for COVID-19 (PNEPPCO)	AIIMS Raipur	21.10.2021 & 22.10.2021
6.	Pediatric Nursing Emergency Preparedness Programme for COVID-19 (PNEPPCO)	AIIMS Raipur	22.02.2022 & 23.02.2022

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

S. No.	Title	CME/Conference	Faculty Name	Date	Organized By
1.	Handling death insurance claim in the Emergency Department	MEDRECON 2022 (International conference)	Dr. Varun Anand	11.03.2022	AIIMS, Raipur
2.	Pediatric GI emergencies	EPICON 2021 (International conference)	Dr. Varun Anand	Dec 2021	AIIMS, Nagpur
3.	Pediatric Asthma and allergy	EPICON 2021 (International conference)	Dr. Santosh K Rathia	Dec 2021	AIIMS, Nagpur
4.	ECG in Emergency (Pediatric + Adult)	CME cum Workshop on "ECG in Emergency"	Dr. Chandan K Dey, Dr. Varun Anand, Dr. Santosh K Rathia	28.08.2021	AIIMS, Raipur
5.	Pediatric Triaging	CME cum Workshop on "PEM Triaging"	Dr. Chandan K Dey, Dr. Varun Anand, Dr. Santosh K Rathia	16.09.2021-18.09.2021	AIIMS, Raipur
6.	Triage at Emergency Department (Pediatric + Adult)	CME cum Workshop on "Triage at Emergency Department"	Dr. Chandan K Dey, Dr. Varun Anand, Dr. Santosh K Rathia	13.11.2021	AIIMS, Raipur

## PATIENT CARE

	Patients Registered	Emergency Surgical Operations	Ultrasounds
TOTAL	32042	2486	1091

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

1. Dr. Santosh K Rathia and Dr. Varun Anand have been awarded fellowship in Pediatric Emergency Medicine.
2. Training ITBP and CRPF doctors and paramedical staff on regular basis.

## ON GOING PROJECTS

S. No.	Title
1.	Comparison of Histopathological and clinical cause of death at a Tertiary Care Hospital
2.	Comparison of accuracy and competency of nursing officers and resident doctors in triaging after structural training at Paediatric Emergency of AIIMS, Raipur: a quality improvement assessment



S. No.	Title
3.	An assessment of Quality Improvement amongst nursing students in paediatric triaging skills after a structured training at AIIMS, Raipur
4.	Assessment of Domestic Violence on Men and Impact of Lockdown on it during COVID-19 Pandemic in India: A Survey Based Study
5.	Evaluation Of Knowledge, Concerns And Psychological Distress in caregivers of patients Seeking Emergency Medical Care For Illnesses Other Than COVID-19 (Corona Virus Disease) in A Tertiary Care Centre in Central India During COVID-19 Outbreak: A Questionnaire Based Survey
6.	Assessment of Spectrum of Preventive Measures Taken By Health Care Providers during COVID-19 Pandemic in India: A Survey Based Study
7.	Understand the role of miRNAs in modulating the cellular responses of Dendritic Cells (DCs) during post-traumatic sepsis and septic shock.
8.	A prospective, multi-centric, open-labeled, phase-IV study to assess safety and efficacy of LYFAQUIN (centhaquine citrate) as a resuscitative agent for hypovolemic shock to be used as an adjuvant to standard treatment of shock.
9.	“Comparison of ultrasound guided transversus abdominis plane block (TAPB) versus erector spinae plane block (ESPB) for analgesia after caesarean delivery - a randomized, double blind, parallel group clinical trial”,
10.	Ultrasound-guided internal jugular vein cannulation by Dynamic needle tip positioning using short axis out of plane approach vs. Long axis in-plane approach for assessing ease and first pass success rate in patients requiring Internal Jugular Vein cannulation : A prospective randomized study.”
11.	Attenuation of haemodynamic response to laryngoscopy and tracheal intubation with intravenous morphine: a randomized comparison of four different timings.
12.	B-VOCAL SCD – Burden of Vaso-Occlusive pain crisis: A Cross-sectional observational study among patients with sickle cell disease in India (CO-PI in Extramural project)
13.	Pattern and outcome of patients in Pediatric Emergency Medicine Wing (PEM) at AIIMS Raipur and an update on it from across the country in India.
14.	Indian Network for COVID-19 vaccine Active Safety Surveillance in Pregnant Women (INVACS-Pregnancy)” (CO-PI in Extramural project).

# Department of Urology

## Associate Professor & In-charge

Dr. Amit R. Sharma

## Assistant Professors

Dr. Deepak Kumar Biswal

Dr. Satyadeo Sharma

Dr. Arvind Kumar

## HIGHLIGHTS

Department of Urology provided OPD consultations to 11712 patients in 2021-22. It offers comprehensive patient care for all diseases involving the urinary and Male Genital systems. Various Urology sub-speciality Special Clinics [Uro-oncology, Andrology & Men Health, Female Urology & Pediatric Urology] were started on Sep 1 2021. Advanced Video Urodynamic Lab started on Jan 26 2022, the first of its kind in Central India. The renal transplantation programme is scheduled to be started soon.

## EDUCATION

M.Ch. Urology training programme was started in June 2020 with an annual intake of two students. The department provides training for Senior and Junior Residents in evaluating and managing urological diseases. Surgical training on various urological procedures is also given in Operating Rooms. The department regularly conducts joint clinical meetings with the Department of Nephrology, Pathology, Medical Oncology & Radiotherapy departments.

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Amit Sharma

S. No.	Title	CME/Conference	Date	Organized by
1.	Renal Transplant: A Urologist's View	CME: Awareness on Organ Donation	27.11.2022	AIIMS Raipur
2.	Video Endoscopic Inguinal Lymphadenectomy (VEIL): Illustrated Step-Wise	3 <sup>rd</sup> Annual Conference of Chhattisgarh Urological Society	26.03.2022	Chhattisgarh Urological Society

### Dr. Deepak Biswal

S. No.	Title	CME/Conference	Date	Organized by
1.	Hilar Control in Large Renal Mass during Laparoscopic Nephrectomy	3 <sup>rd</sup> Annual Conference of Chhattisgarh Urological Society	26.03.2022	Chhattisgarh Urological Society

### Dr. Satyadeo Sharma

S. No.	Title	CME/Conference	Date	Organized by
1.	Looking beyond Andrology	3 <sup>rd</sup> Annual Conference of Chhattisgarh Urological Society	26.03.2022	Chhattisgarh Urological Society

## RESEARCH

### Departmental Non-funded Projects/Thesis/Dissertations

S. No.	Projects
1.	Comparison of Surgical Outcome and Donar Site Morbidity between Everted Great Saphenous Vein Graft Versus Lingual Mucosal Graft Use During Substitution Urethroplasty in Male Patients of Anterior Urethral Strictures along with Oral Sub-Mucous Fibrosis: Arandomized, Open Label, Parallel Group Clinical Trial.
2.	Comparative Study of Percutaneous Nephrolithotomy and Retrograde Intrarenal Surgery in Patients with Renal Stone Measuring <20mm.
3.	Comparison of Narrow Band Imaging with White Light Imaging in Detecting Non-Muscle Invasive Bladder Cancer.
4.	Video-Endoscopic Inguinal Lymphadenectomy (VEIL) as an alternative to Open Inguinal Lymph Node Dissection in Patients with Squamous Cell Carcinoma of Penis.

### Collaborative Non-funded Projects:

S. No.	Project	Collaborating Departments/ Institutions
1.	Extent of Pelvic Lymphadenectomy during Radical Cystectomy-a Multi-Institutional Open Label Randomized Trail between Standard and Extended Pelvic Lymphadenectomy.	Department of Anaesthesiology, AIIMS Raipur Department of Radiodiagnosis, AIIMS Raipur Department of Pathology AIIMS Raipur, Department of Urology, AIIMS New Delhi, AIIMS Bhuwaneshwar, AIIMS Rishikesh & AIIMS Jodhpur

### Collaborative Funded Projects:

S. No.	Project	Collaborating Departments/ Institutions
1.	Efficacy, Safety, and Pharmaco-kinetics of Leuprolide Acetate for Injection 3.75mg (Depot) Administered in Subjects with Advanced Adenocarcinoma of Prostate: A Randomized, Active Controlled, Comparative, Open Label, Multi-Centre, Phase 3 study.	Department of Radiotherapy, AIIMS Raipur

## PUBLICATIONS

- Chaudhari R, **Sharma A**, Shaikh I, Andankar M, Pathak H. Safety and Efficacy of Trans-Perineal Urethroplasty for Management of Post-Traumatic Urethral Strictures in Pediatric Age-Group. Urol Int. 2021;105(11-12): 1024-28. .doi: 10.1159/000515612. Epub 2021 Apr 13. PMID: 33849038.
- Sharma A, Biswal D, Sharma S, Roy S.** Gossypiboma: An uncommon but avoidable dreadful complication. Urologia 2021 Apr 12;3915603211010636. Online ahead of print. [PMID: 33845708].
- Sharma A, Biswal D, Sharma S, Roy S.** An elderly male with lower urinary tract symptoms during COVID-19 pandemic: Extraperitoneal perforation of bladder diverticulum. Urologia 2021 Jun 4;3915603211022945. Online ahead of print. [PMID: 34082626]
- Sharma A, Parab S, Goyal G, Patel A, Andankar M, Pathak H.** Comparison of single-step renal dilatation and serial renal dilatation in percutaneous nephrolithotomy: A retrospective case-control study. Urol Ann. 2021 Oct-Dec;13(4):374-377. doi: 10.4103/UA.UA\_118\_20. Epub 2021 Sep 2. PMID: 34759649; PMCID: PMC8525485.

5. Ansari HM, Rao S, **Sharma A**, Galhotra V. Oral Submucous Fibrosis Secondary to Buccal Mucosal Graft for Urethroplasty. Indian J Otolaryngol Head Neck Surg (2021). <https://doi.org/10.1007/s12070-021-02936-8>.
6. Gupta RK, Wasnik P, **Sharma AR**. Papillary urothelial neoplasm of low malignant potential with osseous metaplasia in a 19-year-old chronic smoker: A case report with review of literature. Indian J PatholMicrobiol [Epub ahead of print].

**OPD Services running on Monday, Wednesday and Friday.**

**Special Clinics run by the department are as follows:**

Monday	Female Urology Pediatric Urology
Wednesday	Uro-oncology Andrology & Men Health
Friday	Vascular access/ CAPD
Saturday	Office Urological Procedures

## PATIENT CARE

Department of Urology has 30 bedded indoor facility. It has two dedicated modular operation theatres.

OPD	IPD	Special Clinics	Major Surgery at Main OT	Daycare Procedures	Emergency OT	Uroflowmetry	Urodynamic Study	OPD Procedures
11508	746	204	350	788	246	1211	43	1744

## AWARDS, HONOURS & SIGNIFICANT EVENTS

Dr. Amit R. Sharma was invited as a panel member at symposium on carcinoma penis conducted at WZ-USICON-2021, Goa. He was Co-Organizing Secretary of Third Annual Conference of Chhattisgarh Urological Society [CUSAC-2022] at Raipur on Mar 26 2022.

# CENTRAL LIBRARY

## Librarians

Miss. Pushpalata Bhalla

Mrs. Rashmi Sharma

The subscription to electronic resources has increased during the academic year 2021-22. The primary and very tangible difference for library users is the subscription to new online resources and databases. To ease the online access of the databases and e-resources, the library has introduced a single platform Remote Xs for accessing all online resources. This will facilitate the end-user to search in all databases and E-Resources subscribed by the library with a single click both remotely and on-site. Central Library is an integral part of the AIIMS, Raipur, playing a significant role in satisfying the needs and providing a modern, efficient and welcoming library service for all the institute members. The library staff are committed to serving the users by educating them to develop technical skills to search the scholarly journals through medical databases that the library is subscribing for their research purposes.

The Central Library has a rich collection of about 10140 books and 83 thesis, 965 e-journals, 37 Magazines, 16 Newspapers (English & Hindi) and additional online databases covering e-Journals and e-books. In-house training for its staff members enhances access to the library's resources to facilitate linking between databases, books, and journal articles for better retrieval. The notable databases to date are as follows-

### E-Resources and online Databases

01	Clinical Key Databases	06	Ithenticate software
02	ERMED Consortium	07	Remote Xs
03	UpToDate databases	08	Scopus Database
04	Grammarly Web Tool	09	Access Medicine
05	Koha Library Software	10	Clinical Key Nursing Flex

The central library is now fully automated with all possible modern facilities with a world-class library management system like 3M Library Security system

that has been installed in the central library AIIMS, Raipur. The library is open 24x7 from Monday to Saturday, on weekdays, and from 9.00 am to 9.00 pm on Sundays and holidays. It is centrally air-conditioned and is under CCTV surveillance. The library provides free internet connection and 24 hours Wi-Fi service to all the readers on all working days, including Sundays and holidays.

## Library Committee-

The Library Committee manages the Central Library. It advises the Librarian regarding the procurement of books and subscriptions of periodicals and databases. The present committee consists of the Professor in charge as Chairperson, seven other members from various departments, and the Librarian as the Coordinator.

### Chairperson

Dr. Eli Mohapatra

### Member-Secretary

Dr. Ekta Khandelwal

### Members

Dr. Santhosh Rao

Dr. Binu Mathew

Dr. Amritava Ghosh

Dr. Jaydeep Nandi

Dr. Chetan Anand

Dr. Pranita

### Following are the programs conducted from 2021-to 2022

1. The online Training program of Ithenticate Plagiarism software for Faculty, JR, and SR was on April 12, 2021, and January 12, 2022.

2. The training program of UpToDate database for Faculty, JR, SR on April 26, 2021.
3. The online Training program of Grammarly Web Tool on May 31, 2021, and April 06, 2022.
4. Online Training program on KOHA Library Management Software for Library staff on June 15, 2021.
5. Online Training session of Clinical Key Elsevier for (Faculty JR/SR and Students MBBS/Nursing) on July 01, 2021, to July 03, 2021.
6. Users Training program for optimum utilization of ERMED CONSORTIUM Journals organized by National Medical Library on June 22, 2021, July 06-07 and July 15, 2021, July 23, 2021.
7. Online Training session of Access Medicine for Faculty, SR, JR, Student (MBBS/Nursing) on December 10, 2021, and December 15, 2021.
8. Central Library AIIMS, Raipur, organized a Demo cum Training program of SCOPUS Database for Faculty, SR, and JR on March 10, 2022.
9. Central Library AIIMS, Raipur, organized a Demo cum Training program of Clinical Key Nursing Flex for Nursing Department Faculty and Students March 08 and 09, 2022.

# Institute Research Cell

As per terms and conditions of Department of Scientific and Industrial Research, the IRC has been subdivided into (i) Research Advisory Board consisting of six internal members including the Chairperson, member secretary and four Faculty-In-charges of Sub-committees, four external members

effective from 17.03-2022 and (ii) Research Review Committee which includes other internal members from the committee dated 06-05-2020 along with Chairperson and member secretary who are common to both the committees as per SOP of IRC effective from 31.03.2022.

## 1. Research Advisory Board

Sl. No.	NAME	DESIGNATION	INTERNAL/EXTERNAL	OFFICE ADDRESS
1.	Dr. Ramanjan Sinha	Chairperson Associate Dean (Research)	AIIMS, Raipur (Internal)	Research Section Room no.6, Medical College Building, AIIMS, Raipur
2.	Dr. K.K. Deepak	Member	AIIMS, New Delhi (External)	Professor and Head Physiology, AIIMS, New Delhi
3.	Dr. Manaswini Mangaraj	Member	AIIMS, Bhubaneswar (External)	Professor and Head Biochemistry, AIIMS, Bhubaneswar
4.	Dr. Arti Parganiha	Member	Pt. Ravi Shankar Shukla University, Raipur (External)	Professor School of Life Sciences Pt. Ravi Shankar Shukla University, Raipur
5.	Dr. Vikas Gupta	Member	AIIMS, Bhopal (External)	Additional Professor ENT & HNS, AIIMS, Bhopal
6.	Dr. Manisha M Ruikar	Member	AIIMS, Raipur (Internal)	Professor and Head, Community & Family Medicine
7.	Dr. Anil K Goel	Member	AIIMS, Raipur (Internal)	Professor and Head, Pediatrics
8.	Dr. Anudita Bhargava	Member	AIIMS, Raipur (Internal)	Professor and Head, Microbiology
9.	Dr. Nandkishore Agrawal	Member	AIIMS, Raipur (Internal)	Professor and Head, Anesthesiology
10.	Dr. Rachita Nanda	Member Secretary	AIIMS, Raipur (Internal)	Professor, Biochemistry

## 2. Research Review Committee

Sl. No.	NAME	DESIGNATION	INTERNAL/EXTERNAL	OFFICE ADDRESS
1.	Dr. Ramanjan Sinha	Chairperson Associate Dean (Research)	AIIMS, Raipur (Internal)	Research Section Room no.6, Medical College Building, AIIMS, Raipur
2.	Dr. Sajal De	Member	AIIMS, Raipur (Internal)	Professor and Head, Pulmonary Medicine
3.	Dr. Amit Chowhan	Member	AIIMS, Raipur (Internal)	Professor and Head , Pathology and Lab Medicine
4.	Dr. Nitin R. Gaikwad	Member	AIIMS, Raipur (Internal)	Professor , Pharmacology
5.	Dr. Vijay K. Konuri	Member	AIIMS, Raipur (Internal)	Additional Professor, Anatomy
6.	Dr. Neeta Misra	Member	AIIMS, Raipur (Internal)	Additional Professor, Ophthalmology

Sl. No.	NAME	DESIGNATION	INTERNAL/EXTERNAL	OFFICE ADDRESS
7.	Dr. Pushpawati Thakur	Member	AIIMS, Raipur (Internal)	Additional Professor, Obstetrics and Gynecology
8.	Dr. Preetam Wasnik	Member	AIIMS, Raipur (Internal)	Associate Professor, General Medicine
9.	Dr. Santosh Rao	Member	AIIMS, Raipur (Internal)	Additional Professor, Dentistry
10.	Dr. Arvind K. Shukla	Member	AIIMS, Raipur (Internal)	Assistant Professor, Community and Family Medicine
11	Dr. Chetan Anand	Member	AIIMS, Raipur (Internal)	Assistant Professor, Surgery
12	Dr. Deepak Biswal	Member	AIIMS, Raipur (Internal)	Assistant Professor, Urology
13	Dr. Rachita Nanda	Member Secretary	AIIMS, Raipur (Internal)	Professor, Biochemistry

### 3. Summary of Intramural Research Proposal reviewed from Jan 2015 – March 2021

- Proposals reviewed in first 4 years (Jan 2015- March 2019) – **97**
- Proposals reviewed by Revised IRC (April 2019- March 2020) – **69**
- Proposals reviewed by Revised IRC (April 2020- March 2021) – **168**

**Proposals reviewed by IRC (April 2021- March 2022) Total = 85**

Held four IRC Meetings for review of Intramural (funded and non-funded), PDCC proposals and also the Randomised Controlled Trials, as requested by reviewers.

#### Details of Review

STATUS OF REVIEW	NUMBER	AMOUNT (RS.)
Total Proposal Reviewed	85	
Funded	18	₹ 70,92,032.00
Non-Funded	67	
Resubmitted as new proposal	1	
Awaiting approval	7	
PI reply pending	3	
Under review	4 (FUNDED-2)	2,65,000.00
Approved	77	
Non- Funded	62	
Randomised Controlled Trials	4	
Other projects	58	
Funded	15	68,27,032.00
Randomised Controlled Trials	0	
Other projects	15	68,27,032.00
COVID PROJECTS	19	5,00,000.00
Intramural (Funded)	1	5,00,000.00
Intramural (Non-Funded)	18	



## 1. Foundation of Centre for Integrative Medicine, Education and Research (CIMER):

Established CIMER funded by AIIMS, Raipur which includes a Centre for Mind-Body Intervention in Yoga (CMBIY). This was inaugurated by Prof. (Dr.) Nitin M. Nagarkar, Director and CEO, AIIMS Raipur and Dr. Raghavendra Rao, Director CCRYN, New Delhi. The CMBIY has been funded by CCRYN upto Rs.2.5 crores under which two

Research Officers and two Yoga Instructors were appointed. Also, mentors of repute were inducted for guidance and a committee was formed at AIIMS, Raipur with an aim to further the objectives of CIMER, effectively. The committee has held two meetings with the Mentors where funding and initiation of research projects and framing of SOP was discussed which shall contribute towards fulfilling the objectives.

### a) Mentors:

S. No.	NAME	DESIGNATION
1	Prof. Dr. B. N. Gangadhar	President, Medical Assessment & Rating Board, NMC, New Delhi
2	Prof. Dr. Gautam Sharma	Professor, Dept of Cardiology & Faculty In-Charge, CIMR, AIIMS, New Delhi
3	Dr. N. Srikanth	Deputy Director General, Central Council for Research in Ayurvedic Sciences, New Delhi
4	Dr. Raghavendra Rao	Director, Central Council for Research in Yoga & Naturopathy, New Delhi
5	Prof. Dr. Rais-ur-Rahman	Former Advisor (Unani) to Govt of India
6	Dr. K. Kanakavalli	Director, Central Council for Research in Siddha, Chennai
7	Dr. Subhas Singh	Director, National Institute of Homoeopathy, Kolkata

### b) CIMER Committee :

S. No.	NAME & DESIGNATION	COMMITTEE
1	Dr. Ramanjan Sinha Associate Dean (Research)	Chairperson
2	Dr. Mrityunjay Rathore Additional Professor, Dept of Anatomy	Member
3	Dr. Tushar Jagzape Additional Professor, Dept of Pediatrics	Member
4	Dr. Satyaki Ganguly Associate Professor, Dept of Dermatology	Member
5	Dr. Vinay Rathore Assistant Professor, Dept of Nephrology	Member
6	Dr. Chetan Anand Assistant Professor, Dept of Gen Surgery	Member
7	Dr. Sunil Kumar Rai Medical Officer, Dept of Ayurveda	Member
8	Dr. Adnan Mastan Medical Officer, Dept of Unani	Member
9	Dr. V. Lakshmanakumar Medical Officer, Dept of Siddha	Member
10	Dr. Ashutosh Tripathi Medical Officer, Dept of Homoeopathy	Member
11	Dr. Vikram Pai Medical Officer, Dept of Yoga & Naturopathy	Member

**c) CIMER research proposals integrating AYUSH with modern system of Medicine under consideration:**

PROJECT		NUMBER	AMOUNT(Rs.)
TOTAL PROJECTS		7	21,04,524.00
INTRAMURAL		4	5,31,000.00
AYUSH- MODERN MEDICINE COLLABORATIVE PROJECTS	COLLABORATING SPECIALTIES	NUMBER	AMOUNT(Rs.)
Intramural (Funded)	Nephrology / Yoga & Naturopathy	2	5,31,000.00
Intramural (Non-Funded)	Pediatric Surgery/ Yoga & Naturopathy	1	Nil
Intramural (Non-Funded)	Homeopathy/ Yoga & Naturopathy	1	Nil
EXTRAMURAL		3	<b>15,73,524.00</b>
COLLABORATING SPECIALTIES		NUMBER	AMOUNT(Rs.)
Medical Oncology/General Surgery/Yoga & Naturopathy		1	1,30,000.00
Physiology/CTVS/ Yoga & Naturopathy		1	9,93,524.00
Nephrology/Yoga & Naturopathy		1	4,50,000.00

**2. List of MoUs of AIIMS, Raipur with other Organizations/Institutions as on 31.3.2022**

- MoU s completed till 2019 – 06
- MoU s completed in FY 2020-21 – 06
- MoU s Under process / Completed in FY 2021-22 -- 09

SI.No.	Institute /Organization
1	Pt. Ravishankar Shukla University, Raipur
2	Jan Swasthya Sahyog, Ganiyari, Chhattisgarh
3	State Planning Commission, Raipur (SPC)
4	Swami Vivekananda Yoga Anusandhana Samsthana (S-VYASA)
5	NCDC and AIIMS, Raipur
6	Johnson & Johnson and AIIMS, Raipur
7	Rawatpura Sarkar University, Raipur
8	GMC, Rajnandgaon
9	District Hospital, Rajnandgaon

**3. Other Activities of Institute Research Cell**

- |   |  |
|---|--|
| <p>(i) The IRC reviewed research proposals continuously through fully online platform while regular physical &amp; hybrid meetings were held for several proposals and RCTs as requested by reviewers.</p> <p>(ii) Established CIMER funded by AIIMS, Raipur and CCRYN inaugurated by The Director and held two meetings with the Mentors with funding and initiation of research projects.</p> | <p>(iii) Held Research Orientation Programs for Post Graduates for imparting knowledge on research methodology on June 2020 and January 2021.</p> <p>(iv) Held Basic Research Methodology Program for faculty on December 2021.</p> <p>(v) Entered into MoU with several national scientific and academic institutes including AYUSH research and regulatory bodies.</p> |
|---|--|

- (vi) Procured & distributed STATCRAFT Statistical software for faculty use.
- (vii) A Research Section has been developed and initiated at Room No. 6, Ground Floor, Medical College Building and a full time LDC has been appointed.
- (viii) Finalisation of SOP was completed after deliberations on several IRC meetings by IRC Sub-Committee in Research Policies and forwarded for approval.
- (ix) AIIMS, Raipur has been recognized by DSIR as a Scientific and Research Organisation vide certificate dated 21.03.2022 which paved the way for obtaining extramural research grants from Govt agencies.
- (x) A Research Advisory Board was constituted as per requirements of DSIR comprising of external members from institutes of repute.
- (xi) A PhD Guidelines committee was formed under Associate Dean (Research) which framed and implemented the guidelines for the existing PhD Program of the institute.
- (xii) There has been extensive documentation and archiving of research activities of AIIMS, Raipur

which was useful during several replies to queries from the ministry and presentations on activities such as “Atmanirbhar Bharat”, etc.

Proposals Reviewed by First IRC (Jan 2015- March 2019)	97
Proposals Reviewed by Revised IRC (April 2019- 2020)	69
Proposals Reviewed by Revised IRC (April 2020- 2021)	168

### Intramural projects

Particulars		Fund
Total no. of Project Submit	86	
Total no. Project Approved	81	
FUNDED	18	₹ 80,70,285
NON-FUNDED	63	
Left/ Rejected/Not Accepted/ Withdrawn/On Hold	05	

### Extramural Projects

Total no. of Extramural project	38
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# Institute Ethics Committee

Sr. No.	Name	Qualification with Specialization	Designation/ Role of member in Ethics Committee	Affiliation to Institute	Gender
1	Dr. Sujit Kumar Naik	M.B.B.S M.D. (Psychiatry)	Chairman	Professor & Head, Department of Psychiatry, Chhattisgarh Institute of Medical Sciences (CIMS), Bilaspur (Chhattisgarh)	Male
2	Dr. Yogendra Keche	M.B.B.S. M.D. (Pharmacology)	Member Secretary	Additional Professor Department of Pharmacology, AIIMS Raipur	Male
3	Dr. Suprava Patel	M.B.B.S. M.D. (Biochemistry)	Basic Medical Scientist	Additional Professor, Department of Biochemistry, AIIMS Raipur (Chhattisgarh)	Female
4	Dr. Tushar B. Jagzape	M.D. M. Phil. H.P.E. DAA (CMC-Vellore)	Clinician	Additional Professor, Department of Paediatrics, AIIMS, Raipur	Male
5	Advocate Shekhar R. Amin	B.Sc., M.A., LLB	Legal Expert	Advocate, Civil Court Raipur	Male
6	Dr. Bhagwant Singh	M.A. Ph. D. (PGDY)	Social Scientist	Professor & Head Department of Philosophy & Yoga, Pt. Ravishankar Shukla University, Raipur	Male
7	Mr. Rahul Ganesh Damke	B.E. (Civil)	Lay Person	Project Head, Mosaic Infraventures Pvt. Ltd., C/o Shri Govind Prasad Verma, Near Kendriya Jal Ayog, Bada bhawani nagar, Kota, Raipur	Male
8	Mr. Mahadeo Katulkar	B.A., M.A., LLB	Legal Expert	Retired Principal District and Session Judge, Chhattisgarh	Male
9	Dr. Shailesh Kumar Jadhav	M.Sc., Ph.D. Botany, Biotechnology and Microbiology	Lay Person	Professor, School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, 492010 (Chhattisgarh)	Male
10	Ms. Jyoti Chakraborty	M.Sc. (Chemistry) M. Ed	Social Scientist	Retired Assistant Professor State Council of Educational Research & Training (SCERT), Raipur	Female
11	Dr. Rashmi Dubey	M.B.B.S. M.D. (Anaesthesiology)	Clinician	Additional Professor, Department of Anaesthesiology, AIIMS, Raipur	Female
12	Dr. Vinay R. Pandit	M.B.B.S. M.D. (Medicine), FACEE, PGDMLE	Clinician	Professor and Head, Department of General Medicine, AIIMS Raipur	Male
13	Dr. Deepak D'souza,	M.B.B.S. M.D. (FMT)	Basic Medical Scientist	Additional Professor, Department of Forensic Medicine and Toxicology, AIIMS, Raipur	Male
14	Dr. Rubik Ray	M.B.B.S. M.S. (Gen. Surgery)	Clinician	Assistant Professor, Department of General Surgery, AIIMS Raipur	Male

The following are the additional members of the Ethics Committee:

Sr. No.	Name	Qualification with Specialization	Designation/ Role of member in Ethics Committee	Affiliation to Institute	Gender
01	Dr. Amit Sharma	M.B.B.S. M.Ch. (Urology)	Clinician	Associate Professor, Department of Urology AIIMS Raipur (Chhattisgarh)	Male
02	Dr. Ashutosh Tripathi,	B.H.M.S. M.D. (Homeopathy)	Clinician AYUSH	Medical Officer (Homeopathy) Department of AYUSH, AIIMS Raipur	Male

- The IEC was registered in the year 2015 and 2<sup>nd</sup> re-registration with the CDSCO was done in the year 2021. The re-registration is valid till 26.02.2026.
- As per the New Drugs and Clinical Trial Rule 2019, Government of India the Ethics Committee of AIIMS Raipur got registered under the Department of Health Research (DHR) and the registration no. **EC/NEW/INST/2022/CG/0075** was issued on 15.03.2022. The registration is valid for a period of five years from the date of its issue.

## IEC Project Details (Year-wise)

Year	No. of research projects reviewed*	Approved (including Exempted)	Rejected	Revision	Terminated	Completed	Ongoing
2015-16	22	22	00	00	01	15	06
2016-17	42	41	00	00	01	24	13
2017-18	69	65	00	00	04before and + 04 after approval=08	35	26
2018-19	136	135	00	01	08	34	92
2019-20	199	194	01	03	01	32	157
2020-21	326	320	00	05	01 before and + 08 after approval=09	20	292
2021-22	290	286	00	01	03before and + 02 after approval=05	04	276
Total	1084	1063	1	10	33	164	862

Including Faculty, SR, PG thesis, DNB, Ph.D, PDCC, DM/MCH, MPH, Nursing and ICMR-STs projects.

## IEC Meetings held during 2021-22

Total no. of meeting held during 2021-22: Five (05) – full board and Ten (10) Sub – committee meetings.

## Details of meetings held

Date of Meeting	No. of research projects reviewed*	Approved/ Provisionally approved	Rejected	Exemption	Terminated	Sent for revision
13.05.2021 (sub-committee meeting)	17(13 new, 04 revised)	16	00	01	00	00
29.05.2021	70 (68 new, 02 revised)	66	00	00	00	04
18.06.2021 (sub-committee meeting)	08 (06 new, 02 revised)	06	00	00	00	02
25.06.2021 (sub-committee meeting)	03 (03 new)	02	00	00	00	01
19.07.2021 (sub-committee meeting)	08 (08 new)	08	00	00	00	00
14.08.2021	37 (34 new, 03 revised)	36	00	01	00	00
17.09.2021(sub-committee meeting)	08 (08 new)	05	00	00	00	03
01.10.2021 (sub-committee meeting)	24 (24 new)	22	00	01	00	01
28.10.2021 (sub-committee meeting)	14 (13 new, 01 revised)	13	00	00	00	01
20.11.2021	54 (48 new, 06 revised)	50	00	01	00	03
16.12.2021(sub-committee meeting)	23 (20New, 03 revision)	20	00	01	00	02
03.02.2022 (sub-committee meeting)	07 (07 new)	06	00	00	00	01
12.02.2022	33 (31 new, 02 revised)	30	00	02	00	01
19.03.2022 (sub-committee meeting)	06 (05 New, 01 revised)	06	00	00	00	00
23.04.2022	39 (38 New, 01 revised)	39	00	00	00	00

Including Faculty, SR, PG thesis, DNB, Ph.D, PDCC, DM/MCH, MPH, Nursing and ICMR-STC projects.

## IEC decision on projects reviewed during 2021-22 (as on 31.03.2022)

Total no. of project reviewed	290
Total no. of project approved	279
Total no. of project Exempted	07
Total no. of project rejected	00
Total no. of project for revision	01
Total no. of project Terminated	(03 before and 02 after approval)

### 3.4 Status (Ongoing/Completed/Terminated)

Total no. of ongoing projects (as on 31.03.2021)	276 (719)
Total no. of completed projects	04 (303)
Total no. of Terminated	05 (50)
Total no. of Rejected	00 (01)
Total no. of Pending	04 (09)
Total no. of projects sent for revision	01 (02)
Total no. of projects	290 (1084)

Note – Number in bracket indicates the cumulative figure.

### Details of approved research projects during 2021-22 (as on 31.03.2022)

Total no. of funded projects (Extramural projects) including ICMR STS	30
Total no. of funded projects (Intramural projects)	18

### Details of approved Extramural funded projects (N=30)

Total no. Pharmaceutical industry sponsored projects	18
Total no. Government agency & other sponsored projects (including ICMR-STS)	12

Note: 01 Pharmaceutical Project was terminated by PI after approval

### Serious Adverse Events (SAEs) and deaths SAEs analysed by IEC-AIIMS Raipur during 01.04.2021 to 31.03.2022

Total no. of Serious Adverse Events (SAEs)	17
Total no. of deaths SAEs	16

# School of Public Health

## FACULTY

Prof. (Dr.) Abhiruchi Galhotra, (Course Coordinator, MPH& Professor, CFM)

## HIGHLIGHTS:

The School of Public Health, AIIMS Raipur, successfully entered the third year of its establishment with a fresh intake of 6 candidates in 2021-22.

1. **World Organ Donation Day** (27.11.2021): Walkathon (Aangdan Mahadaan), Poster Competition, Continuing Medical Education (CME) was organized.
2. **World Kidney Day** (09.03.2022-10.03.2022): General Public Awareness Program, Sports events of carom, chess, and badminton for Kidney patients, visit the Peritoneal and Hemodialysis unit for health care workers, orange lighting of the Medical College building, Poster Competition, Inauguration of the Telemedicine unit for Dialysis patients from remote areas in Chhattisgarh, Continuing Medical Education (CME) was organized.
3. School of Public Health collaborated with the Department of ENT, AIIMS Raipur to observe **International Women's Day** (08/03/2022-16/03/2022): Public Awareness Program in the institution and for pregnant females at PHC Hirapur, health check-ups camp in ENT and session for female sanitation workers were conducted.
4. Dr. Saurabh Sahu and Dr. Sonal Dayama were appointed as State Assessors for **Effective Vaccine Management (EVM)** by UNICEF. They assessed the districts Jangir Champa and Baloda Bazaar respectively and submitted the report to the organizers. The MPH students were appointed as observers and got hands-on experience regarding EVM.
5. **All the first batch of students have been placed**

## Placement of First MPH Batch Students

Name of Student	Organization
Dr. Kritika Vaishnav	Research Associate, Samarthan Centre for Development, Raipur
Dr. Priyanka Parhad	District Consultant for Health and wellness center, SHRC, C.G.
Ms. Snehlata	Nursing Officer, Lady Harding Medical College and Hospital, Delhi
Mr. Srikanta Padhan	Research Assistant, AIIMS, Bhubaneswar
Ms. Sunitra Somara	Cleared NORCET

Continuing advocacy for Covid Appropriate Behavior, general health awareness, personal and hand hygiene, and various other health topics the department organized health promotion activities in the communities, schools and OPD registration area of AIIMS, Raipur, twice a week for beneficiaries. Advocacy sessions were also organized on

1. World Health Day (07/04/2021)
2. World Environment Day (08/06/2021)
3. World No Tobacco Day (11/06/2021)
4. World Blood Donor Day (15/06/2021)
5. International Yoga Day (21/03/2021)
6. World ORS Day (29/07/2021)
7. World Breast Feeding Week (05/08/2021)
8. National Nutrition Week (02/09/2021)
9. National Pharmacovigilance Week (16/09/2021-23/09/2021)
10. World Organ Donation Day (25/11/2022)
11. World AIDS Day (02/12/2021)
12. World Hearing Day (03/03/2022)
13. International Women's Day (08/03/2022)
14. World Kidney Day (09/03/2022)



## EDUCATION:

Adhering to the MoHFW curriculum for the MPH course, The School of Public Health, AIIMS Raipur, employs various teaching/learning techniques like didactic lectures, seminars, journal clubs, collaborative learning, group discussions, assignments, hands-on training on computers, visiting organizations of public health interests, film review, poster making, debates, practical, field projects, public health campaigns, etc. for teaching. MPH course is a two-year course comprising four semesters, 16 modules, one academic research project, and two months of internship. There are 12

students currently pursuing MPH in the department, six each in the first and second year. All second-year MPH students are on the verge of completing their research projects, and first-year students are due to submit their synopsis by June 30, 2021.

In the year 2021-22, 96 lectures, 100 guest lectures, 22 seminars, 70 webinars, 12 journal clubs, 7 field visits, and 49 health education campaigns have been conducted.

Health Management and Health Economics Module were taken by the expert faculties from PGIMER, Chandigarh.

### Lectures Conducted

S. No.	Topic	Lecture	Faculty
1	Maternal and Child Health	12 Lectures	Dr. Abhiruchi Galhotra
2	Non-Communicable Diseases	22 Lectures	Dr. Nitin Agrawal
3	Demography and Family Planning	13 Lectures	Dr. Nitin Agrawal
4	Communicable Diseases	26 Lectures	Dr. S P Dhaneria Dr. Sonal Dayama Dr. Saurabh Sahu
5	Miscellaneous Topics	9 Lectures	Dr. Swapnil Akhade Dr. Sonal Dayama Dr. Nitin Agrawal Dr. Saurabh Sahu
6	Nutrition	7 Lectures	Dr. Abhiruchi Galhotra Dr. Sonal Dayama Dr. Saurabh Sahu
7	Introduction to Public Health	7 Lectures	Dr. Swapnil Akhade Dr. Sonal Dayama Dr. Nitin Agrawal Dr. Saurabh Sahu
<b>TOTAL</b>		<b>96 Lectures</b>	

**Health Management Module by Dr. Sonu Goel and Team:** Dr. Sonu Goel is working as a Professor in the Department of Community Medicine & School of Public Health, Post Graduate Institute of Medical Education and Research (PGIMER) Chandigarh with over 18 years of experience in the field of Public Health.

**Health Economics Module by Dr. Shankar Prinja and Team:** Dr. Shankar Prinja, Additional Professor of Health Economics at PGI's Department of Community Medicine & School of Public Health.

**Gender and Health Module by Sulakshana Nandi:** Dr. Sulakshana Nandi is the National Joint Convener of People's Health Movement India (Jan Swasthya Abhiyan) and Co-chair of PHM Global.

Guest lectures by the eminent Public Health Experts of Chhattisgarh, i.e., **Dr. Kamlesh Jain, Nodal Officer NTCP, NPCDCS, Climate Change,** and **Dr. Nitin Patil, SMO WHO,** were organized for postgraduate students to orient them on challenges and opportunities in public health and prepare them for future endeavors.

## Lecture conducted by Resource Faculty

S. No.	Topic	Lecture	Resource Faculty
1	Health Management Module	35 Lectures	Dr. Sonu Goel & Team
2	Health Economics Module	27 Lectures	Dr. Shankar Prinja & Team
3	Gender & Health Module	4 Lectures	Dr. Sulakhshana Nandi
4	Biostatistics Module	28 Lectures	Prof R C Ram
5	Immunization	4 Lectures	Dr. Nitin Patil
6	COTPA	2 Lectures	Dr. Kamlesh Jain
7	TOTAL	100 Lectures	

## Field Visits:

1. Dr. Saurabh Sahu and Dr. Sonal Dayama were selected as State Assessors for Effective Vaccine Management by UNICEF. They assessed the districts Jangir Champa and Baloda Bazaar respectively and submitted the report to the organizers. The MPH students were appointed observers.
2. Dr. Saurabh Sahu, attended a *National Training workshop on "Strengthening Monitoring and Evaluation of NTCP/MPOWER in the country-prioritizing and reorienting Public Health Institutes and National Institute School of Public Health conducted a COTPA compliance survey of the District of Surguja, Chhattisgarh from 22/07/2021-24/07/2021.*

## CMEs/WORKSHOP/SYMPOSIA/NATIONAL &amp; INTERNATIONAL CONFERENCES

S. No.	Title	CME/Conference	Date	Organized By
1.	World Organ Donation Day-2021	CME on Organ Donation Day	27/11/2021	School of Public Health and Department of Nephrology
2.	World Kidney Day Celebration -2022	CME on Acute Kidney Injury	08/03/2022 to 09/03/2022	School of Public Health and Department of Nephrology

## LECTURES DELIVERED AT CMEs, NATIONAL &amp; INTERNATIONAL CONFERENCES (as Resource Faculty)

S. No.	Title	CME/Conference	Date	Organized By
1	Dr. Abhiruchi Galhotra (Participated as resource faculty)	Dissemination of GYTS Chhattisgarh	12/10/21	Dept of Health & Family Welfare, CG
3	Dr. SaurabhSahu Dr. Sonal Dayama	ToT of Community Health Officers on Expanded Package of Health Services at HWC	22-26 Feb 2022, 2-4 March 2022	CMHO Office, Raipur

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1	Dr. Priyanka Parhad	Profile and predictors of outcome in covid-19 disease: A retrospective cohort study	34th annual ESICM International Conference	04/10/2021	European Society of Intensive Care Medicine (ESICM)

## RESEARCH

### Departmental Projects – Non-Funded Projects/ ICMR-STC Projects/ Thesis/Dissertations

#### Ongoing

S. No.	Project	Name of Student/ SR
1	Prevalence of Hearing loss in operated Mucormycosis patients at AIIMS Raipur	Dr. Astha Soni
2	Gap Analysis of TCC of Raipur division of Chhattisgarh State	Dr. Shikhar Sharma
3	An assessment of Nutritional Status in Chronic Kidney disease patients of unknown origin by Bio-impedence Spectroscopy	Dr. Jyoti Sahu
4	Evaluation of over-the-counter drugs usage in the household of urban population in Raipur Chhattisgarh	Ms Kumari Pramita
5	Descriptive Analysis of Covid 19 Mortality in the state of Chhattisgarh	Dr. Sanjana Agrawal
6	The assessment of the Quality of Life and Caregiver burden among persons undergoing and followed up for dialysis in the Department of Nephrology at AIIMS Raipur	Mr. Senthil Kumar R
7	Mortality Trends and patterns from all diseases in a Tertiary Care Hospital: A Retrospective Study	Dr. Saurabh Kumar Sahu
8	Prevalence of COVID-19 post-vaccination and symptom profiling amongst Health care workers- A cross-sectional study	Dr. Abhiruchi Galhotra
9	Effect of Health Education Intervention on Reducing Sedentary Screen Time in children under 5 years: Cluster Randomized Control Trial	Dr. Abhiruchi Galhotra

#### Completed

S. No.	Project	Name of Student
1.	Profile and predictors of outcome in newborns admitted in SNCUs of two tribal districts of Chhattisgarh	Dr. Kritika Vaishnav
2.	Profile and predictors of outcome in COVID Patients in public sector tertiary care hospital of Central India	Dr. Priyanka Parhad
3.	An assessment of the Out-of-Pocket expenditure in accessing dialysis services among chronic kidney disease patients in a public sector tertiary care hospitals of Central India	Ms. Snehlata
4.	Assessment of impact of COVID-19 on drug store management at AIIMS Raipur	Mr.Srikanta Pradhan
5.	Assessment of WHO antimicrobial use indicators in patients admitted in general medicine ward of tertiary care teaching hospitals in Pre-COVID and COVID patients	Ms. Sumitra Somara

S. No.	Project	Name of Student
6.	A Study on Utilization of Sanitation Facilities among Adolescent girls in an Urban Slum of Raipur City	Dr. Abhiruchi Galhotra
7.	Health problems of people residing in slums near Railway Tracks in Raipur City	Dr. Abhiruchi Galhotra
8.	Situational analysis of WASH facilities related to MCH services in Raipur district	Dr. Abhiruchi Galhotra

## COLLABORATIVE PROJECTS

### Ongoing

S. No.	Project	Collaborating Department/ Institution
1	A Clinical & Epidemiological profile of patients with chronic kidney disease of unknown aetiology attending AIIMS, Raipur, CG	Dept of Nephrology, AIIMS Raipur
2	Implementation of NCDIR Electronic Mortality Software (NCDIR e-Mor)-strengthen Medical Certification of Cause of Death in AIIMS Raipur (Multi Centric Project)	MRD, AIIMS Raipur
3	A feasibility study for setting up registry for assessing the determinants of dialysis outcomes in India	Dept of Nephrology

### Completed

S. NO.	Project	Collaborating Department/ Institution
1	Prevalence and Etiology of Hearing Impairment – ICMR NTF A Multi Centric Project	Dept of ENT & HNS, AIIMS Raipur
2	New Born Hearing Screening-A Hospital Based Project at AIIMS, Raipur	Dept of ENT & HNS, AIIMS Raipur
3	Awareness about Folic Acid Supplementation and Folic Acid status in Pregnant Women of Abhanpur block of Raipur District	Dept of CFM, AIIMS Raipur
4	Correlation study of endothelial function and Biomarkers in patients of Sickle Cell Anemia at Chhattisgarh	Dept of Physiology, AIIMS Raipur
5	Determinants of Mortality due to Covid-19 in India	Dept of Pulmonary Medicine, AIIMS Raipur

## PUBLICATIONS:

- Pradhan, S., T, P., Chandrakar, R., Galhotra, A., & Borkar, N. B. (2021). Assessment of the Impact of COVID-19 on Drug Store Management in a Tertiary Care Teaching Hospital of Central India. *Cureus*, 13(11), e19723. <https://doi.org/10.7759/cureus.19723>
- Giri, A.K., Padhan, S., Galhotra, A. (2022). Epidemiology of Rhinosporidiosis. In: Nagarkar, N.M., Mehta, R. (eds) *Rhinosporidiosis*. Springer, Singapore. [https://doi.org/10.1007/978-981-16-8508-8\\_2](https://doi.org/10.1007/978-981-16-8508-8_2)
- Agrawal, S., Dayama, S. and Galhotra, A., 2022. Pharmacovigilance in India: Do Not Take a Chill Pill. *International Journal of Current Research and Review*, 14(02), pp.93-96.
- Agarwala P, Bhargava A, Gahwai D, Negi S, Shukla P, Dayama S. (April 13, 2022) Epidemiological Characteristics of the COVID-19 Pandemic During the First and Second Waves in Chhattisgarh,

- Central India: A Comparative Analysis. *Cureus* 14(4): e24131. DOI 10.7759/cureus.24131
5. Arora R, Jati M, Nagarkar NM, Galhotra A, Agrawal S, Mehta R, Naik T. Experience, Challenges and Outcome of Implementing Universal New Born Hearing Screening in a Medical College Hospital Set Up. *Indian J otolaryngol Head Neck Surg* May 2021; DOI: <https://doi.org/10.1007/s12070-021-02633-6>
  6. Mathur P, Kulothungan V, Leburu S, Krishnan A, Chaturvedi H, Salve H, et al. Baseline risk factor prevalence among adolescents aged 15–17 years old: findings from National Non-communicable Disease Monitoring Survey (NNMS) of India. *BMJ Open* (2021); 11(6):e044066. DOI: <http://dx.doi.org/10.1136/bmjopen-2020-044066>
  7. Anand Krishnan, Mathur P, Kulothungan V, Salve H, Leburu S, Amarchand R. Preparedness of primary and secondary health facilities in India to address major non-communicable diseases: results of a National Non-communicable Disease Monitoring Survey (NNMS). *BMC Health Services Research*; 2021 21: 757. DOI: 10.1186/s12913-021-06530-0
  8. Pal R, Shukla A, Galhotra A, Gaikwad U. Situational Analysis of WASH Facilities in Maternity Units of a district of Central India. *International J of Current Research & Review* (2022) 14(2); 1-7. DOI: <http://dx.doi.org/10.31782/IJCRR.2022.14207>
  9. Vinay Rathore, Rahul Pal, Abhiruchi Galhotra, Saurabh Nayak, Snehalata, Vivekanand Jha, Nitin M Nagarkar. Community Perception of Chronic Kidney disease in Supebeda, Chhattisgarh. *International J of Current Research & Review* (2022) 14(2); 23-28; DOI: <http://dx.doi.org/10.31782/IJCRR.2022.14210>
- the essay writing competition organised by the **National Mental Health Programme**, Assam, on World's Mental Health Day-2021 on '*Managing Post Covid-19 Mental Health Challenges*'. She has also been awarded the prize money of Rs. 3000 for the same. She also bagged 2<sup>nd</sup> Prize in the quiz and essay writing competition respectively held on the occasion of **Hindi Pakhwada-2021**
2. Dr. Sonal Dayama, SR presented the best-case study and Mr. Senthil Kumar R was among the top 10 entries in the National level case study writing competition- 2021 conducted by **IAPSM, India**.
  3. Dr. Nitin Agrawal, bagged consolation in *Shabdawali competition in Hindi Pakhwada-2021* at AIIMS Raipur.
  4. Dr. Shikhar Sharma secured first prize in a *poster competition* conducted on World Organ Donation-2021 and World Kidney Day-2022. He has also won 2<sup>nd</sup> Prize and 3<sup>rd</sup> prize in the quiz and Shabdawali competition respectively held on the occasion of *Hindi Pakhwada-2021*
  5. Dr. Jyoti Sahu secured 2<sup>nd</sup> and 3<sup>rd</sup> prize in poster competition conducted on *World Organ Donation-2021 and World Kidney Day-2022* respectively.
  6. Dr. Astha Soni secured 2<sup>nd</sup> prize in a poster competition conducted on *World Kidney Day-2022*. Also, she has won a consolation prize in a *quiz* conducted on the occasion of *Hindi Pakhwada-2021*.
  7. Dr. Kritika Vaishnav bagged 1<sup>st</sup> prize and 2<sup>nd</sup> prize in *quiz and poem competition* respectively occasion of *Hindi Pakhwada-2021*
  8. Dr. Priyanka Parhad secured 2<sup>nd</sup> position in *quiz* conducted on the occasion of *Hindi Pakhwada-2021*

## EXTRACURRICULAR ACTIVITIES:

1. Dr. Sanjana Agrawal, 2<sup>nd</sup> year MPH student won

# Anti- Ragging Committee

## Chairman

Prof.(Dr.) Nitin M. Nagarkar

## Vice- Chairman

Prof.(Dr.) Alok C. Agrawal

## Anti- Ragging Measures

Ragging in all forms is totally banned in the entire AIIMS Raipur campus including departments, library, academic & non-academic locations (residential, sports area, canteen, etc.). AIIMS Raipur strictly follows Zero Tolerance for Ragging.

*The following measures are being undertaken to curb the menace of ragging in the campus:*

1. Fresh batch students would be provided with security (escorts) to reach classrooms from their respective hostels and back to hostel after the classes are over.
2. During all events of interaction of batches in the campus (such as during celebration, functions, sports or other co-curricular & extracurricular activities) teachers/wardens/security personnel would be appointed to keep vigilance on students' activities.
3. No senior student would be permitted to meet fresh batch students in their hostels without permission of warden. Security officers to be vigilant round clock.
4. Faculty/Teachers of corresponding departments would ensure that all students come and leave together in their departmental (teaching) activity. If any student is held in department by a teacher for some reason, it is his/her responsibility to ensure that the student reaches hostel safely.
5. During any occasion of stay in college premises other than stipulated teaching hours (for rehearsal, preparation of an event etc), a fresh batch student shall not be permitted to stay in absence of faculty/teachers.

6. General code of conduct of hostel would be strictly followed.
7. All teaching and non-teaching staffs have to submit undertaking for curbing the menace of ragging in this campus
8. Freshers who do not report the incidents of ragging, either as victims or as witnesses, would be punished suitably.
9. Depending upon the nature and gravity of the offence as established by the Anti-Ragging Committee of the institution, strict action will be taken against those found guilty of ragging.

## Anti-Ragging Squad at AIIMS Raipur

The Anti-Ragging Squad is assigned the duty to have vigil, oversight and patrolling functions and is empowered to inspect locations prone for potential ragging incidents; and make surprise checks/visits in hostels/mess/library and other vulnerable spots. The squad shall report incidents of ragging, if any, and shall work under the overall guidance of the Anti-Ragging Committee of the institute. The names, contact numbers and email addresses of the members of the Anti Ragging Committee and Anti Ragging squad are available at the website i.e., [www.aiimsraipur.edu.in](http://www.aiimsraipur.edu.in); so as to enable the students/parents/other stakeholders to register their complaints/grievances and contact them for redressal.

National Anti-Ragging Helpline 18001805522  
Email id-helpline@antiragging.in

**Annual Accounts and Audit Report  
for the FY 2021-22**

**Separate Audit Report of the Comptroller and Auditor General of India on the Accounts of All India Institute of Medical Sciences, Raipur for the year ended 31 March 2022.**

We have audited the attached Balance Sheet of All India Institute of Medical Sciences (AIIMS), Raipur as at 31 March 2022, Income and Expenditure Account and the Receipts and Payment Account for the year ended on that date under Section 19 (2) of the Comptroller and Auditor General's (Duties, Powers & Conditions of Service) Act, 1971. These financial statements are the responsibility of the AIIMS's management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This Separate Audit Report contains the comments of the Comptroller and Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc., if any, are reported through Inspection Reports/CAG's Audit Reports separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining on a test basis, evidences supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis of our opinion.

4. Based on our audit, we report that-

- (i) We have obtained all the information and explanations which to the best of our knowledge and belief, were necessary for the purpose of our audit.;
- (ii) The Balance Sheet, Income and Expenditure Account and the Receipts and Payments Account dealt with by this report have been drawn up in the format approved by the Ministry of Finance.



(iii) In our opinion, proper books of accounts and other relevant records have been maintained by the AIIMS, Raipur in so far as it appears from our examination of such books.

(iv) We further report that:-

**A. Balance Sheet**

**1. Corpus/Capital Fund and Liabilities**

**1.1 Current Liabilities and Provisions (Schedule-7) – ₹ 27.81crore**

**1.1.1** This does not include ₹ 24.87 crore<sup>1</sup> being provision were not made for various expenses pertaining for the FY 2021-22, as the same were paid in the FY 2022-23. This resulted in understatement of Current Liabilities & Provisions by ₹ 24.87 crore and overstatement of Corpus/Capital Fund by same amount. This was also pointed out in the SAR 2020-21 (Para A.1.1.2)

**1.1.2** This includes ₹ 90.01 lakh being extra liability created for extramural funds. Item No. (a) V (other current liabilities)under Current Liabilities and Provisions (Schedule-7) ₹ 387.68 lakh included ₹ 323.93 lakh of extramural funds instead of ₹ 233.92 lakh . This resulted in overstatement of Current Liabilities and Provisions by ₹ 90.01 lakh (₹ 323.93 lakh - ₹ 233.92 lakh) and understatement of Corpus/ Capital Fund by same amount. This was also pointed out in the SAR 2020-21 (Para A.1.1.3)

**1.1.3** This does not include ₹ 7.94 crore being provision not created for payment for items which have been received against purchased orders. This resulted in understatement of Current Liabilities & Provisions by ₹ 7.94 crore and overstatement of Corpus/ Capital Fund by same amount.

**1.1.4** This does not include ₹ 19.03 lakh being provision required to be made for Annual Maintenance Contract (AMC)/Comprehensive Maintenance Contract (CMC) invoices/bills which were due for payment but could not paid as on 31/03/2022.This

<sup>1</sup>₹ 2786408 /- ( Housekeeping)+ ₹ 15828491 /- (Outsource office and Hospital)+ ₹ 240000 /-( Professional Charges)+ ₹ 325604 /-( Rent and Hire)+ ₹ 11243718 /- (Security services)+ ₹ 2810557 /-(Dietary charges) + ₹ 215469248 /- (Salary)

resulted in understatement of Current Liabilities & Provisions and overstatement of Corpus/Capital Fund by ₹ 19.03 lakh.

## 2 Assets

### 2.1 Fixed Assets (Schedule-8)-₹ 821.15 crore

- 2.1.1 This does not include ₹ 10.45 lakh being books purchased under Learning Resource Allowance Scheme for the FY 2021-22. As per the scheme guidelines, these books are the property of AIIMS and therefore, should have been included in the Fixed Assets. But the same was considered as expenditure. This resulted in understatement of Fixed Assets by ₹ 10.45 lakh less depreciation and overstatement of Expenditure to that extent. This was also pointed out in the previous SAR 2020-21 (Para A.2.1.2).
- 2.1.2 This includes works<sup>2</sup> having cost of ₹ 41.87 lakh which were physically completed in FY 2021-22 and put to use also, but no depreciation was charged on these works. This resulted in overstatement of Fixed Assets by ₹ 4.19 lakh (depreciation@10% on ₹ 41.87 lakh) and understatement of Expenditure (Depreciation) by ₹ 4.19 lakh.
- 2.1.3 Fixed Assets amounting of ₹ 8.99 crore were put to use/installed during FY 2020-21 despite this these are accounted for in FY 2021-22 accordingly depreciation has been charged only for FY 2021-22 instead of both years (i.e. FY 2020-21, FY 2021-22). This resulted in overstatement of Fixed Assets by ₹ 95.09 lakh<sup>3</sup> and understatement of Expenditure (Depreciation) by same amount.
- 2.1.4 This does not include ₹ 4.97 lakh being cost of various capital items (oxygen B-type cylinder) accounted for as revenue expenditure. This resulted in understatement of Fixed Assets by ₹ 4.22 lakh (₹ 4.97 lakh less depreciation ₹ 0.75 lakh) and overstatement of Expenditure/understatement of capital fund by same amount.

## B. General

<sup>2</sup> Construction of aluminium partition, sitting platform and various other works at AIIMS Raipur and construction of High Dose Therapy Ward at C block LGF at AIIMS Raipur

<sup>3</sup> Value of fixed assets as per annual accounts = ₹ 7,72,66,437 /-  
Value of fixed assets if depreciation calculated from 2020-21 = ₹ 6,77,57,052 /-  
₹ 95,09,385 /-

1. As per grant sanction letters, the un-utilized grants is required to be refunded to the Government of India despite this unspent balance of grants-in-aid has not been accounted for as current liability.
2. Provisions for gratuity and other retirement benefits for eligible employees of AIIMS, Raipur have not been made on actuarial valuation basis which is contravention in Accounting Standard -15 and instructions contained in the Uniform Format of Accounts (UFA). This was also pointed out in the previous SAR 2018-19 Para A.2); SAR 2019-20 Para A.2 and SAR 2020-21 General comments.
3. Expenditures of ₹ 24.18 crore<sup>4</sup> pertaining to previous years (i.e. FY 2020-21) was accounted for in current year (i.e. FY 2021-22). This resulted in overstatement of current year Expenditure by ₹ 24.11 crore and understatement of Prior Period Expenditure by same amount

#### **Effect of audit comments**

The net effect of the above comments is that Fixed Assets was overstated by ₹ 84.61 lakh and Expenditure was understated by ₹ 84.61 lakh respectively.

#### **C. Management Letter**

Deficiencies which have not been included in the Audit Report have been brought to the notice of the Director, All India Institute of Medical Sciences (AIIMS), Raipur through a Management Letter issued separately for remedial/ corrective action.

#### **D. Grants-in-aid**

AIIMS, Raipur received grants-in-aid (GIA) of ₹ 527.39 crore and interest received amounting to ₹ 4.31 crore along with internal receipts of ₹ 47.94 crore. In addition to this, there was an unspent balance of ₹ 195.82 crore (Unspent balance includes ₹ 8.03 crore interest on GIA for 2020-21 which was refunded in 2021-22 and unadjusted advances of ₹ 13.73 crore). Thus out of total available funds of ₹ 775.46 crore an amount of ₹ 528.55 crore was utilized leaving an unutilized balance of ₹ 246.91 crore (including interest on GIA amounting to ₹ 4.31 crore for FY 2021-22) and there was ₹ 7.65 crore unadjusted advances. Thus, total unutilized balance of GIA is ₹ 254.56 crore at the end of the year.

<sup>4</sup> ₹ 18.14 crore (Salaries for the month of March 2021) + ₹ 5.76 crore (Expenditure pertaining to previous year) + ₹ 0.28 crore (Expenditure of AMC/CMC invoices/bills) = ₹ 24.18 crore

- (v) Subject to our observations in the preceding paragraphs, we report that the Balance Sheet, Income and Expenditure Account and Receipts and Payments Account dealt with by this report are in agreement with the books of accounts.
- (vi) In our opinion and the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Account and subject to the significant matters stated above and other matters mentioned in the Annexure to this Audit Report, give a true and fair view in conformity with accounting principles generally accepted in India.
- a) In so far as it relates to the Balance Sheet, of the state of affairs of the All India Institute of Medical Sciences, Raipur as at 31 March 2022; and
- b) In so far as it relates to Income and Expenditure Account of the deficit, for the year ended on that date.

**For and on behalf of the Comptroller and Auditor General of India**

**Place:**

**Date:**



**Director General of Audit  
(Central Receipts)**

**Annexure****1 Adequacy of Internal Audit system:**

Internal Audit of AIIMS, Raipur is conducted by Ministry of Health and Family Welfare. Report yet not received.

**2 Adequacy of Internal control system:**

The internal control system was found to be inadequate due to:

- (i) 10 paras of compliance audit (02 paras for the period 08/18 to 12/19, 3 paras for the period 01/20 to 12/20 and 5 paras for the period 01/2021 to 06/2021) were still pending.
- (ii) 6 paras of internal audit were still pending.
- (iii) Item wise highest and lowest levels of consumable stock have neither been fixed nor maintained.
- (iv) AIIMS, Raipur has no Accounting Manual of its own.
- (v) There is no training and development policy in place.
- (vi) Project wise information is not available in compiled mode. Present status of projects is not updated because data has still to be collected and compiled.
- (vii) Confirmation of debtors/loans and advances not taken from respective parties by AIIMS Raipur.

**3 Physical Verification of Fixed Assets:**

Physical verification of Fixed Assets has been conducted during the year 2021-22.

**4 Physical Verification of Inventories:**

Physical verification of inventories has been conducted during the year 2021-22.

**5 Regularity in payment of Statutory Dues:**

Delay was noticed in the payment of statutory obligations. Balance amount of income tax (salary) was paid beyond the due date.

*mmk*  
*27/09/2022*  
**Sr. Audit Officer/AMG-II**

## ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR (CHHATTISGARH)

## Balance Sheet as on 31/03/2022


	SCHEDULES	Current Year 2021-22	Previous Year 2020-21
<b>A) CORPUS/ CAPITAL FUND AND LIABILITIES</b>		₹	₹
Corpus/ Capital Fund	1	10,34,28,33,471.92	9,54,50,07,713.20
Reserves and Surplus	2	-	-
Earmarked/ Endowment Funds	3	-	-
Secured Loans and Borrowings	4	-	-
Unsecured Loans & Borrowings	5	-	-
Deferred Credit Liabilities	6	-	-
Current Liabilities and Provisions	7	27,81,39,315.68	46,94,31,422.44
<b>TOTAL</b>		<b>10,62,09,72,787.60</b>	<b>10,01,44,39,135.64</b>

<b>B) ASSETS</b>			
Fixed Assets	8	8,21,15,04,270.64	7,89,69,67,212.82
Investments- From Earmarked/ Endowment Funds	9	-	-
Investments- Others	10	-	-
Current Assets, Loans, Advances Etc.	11	2,40,94,68,516.96	2,11,74,71,922.82
Miscellaneous Expenditure		-	-
(to the extent not written off or adjusted)		-	-
<b>TOTAL</b>		<b>10,62,09,72,787.60</b>	<b>10,01,44,39,135.64</b>

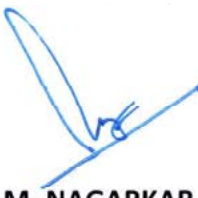
SIGNIFICANT ACCOUNTING POLICIES AS PER SCHEDULE 24

CONTINGENT LIABILITIES AND NOTES ON ACCOUNT AS PER SCHEDULE 25

FOR, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR



**B.K. AGRAWAL**  
FINANCIAL ADVISOR



**Prof. (Dr.) NITIN M. NAGARKAR**  
DIRECTOR & CEO

Date: 25/05/2022

Place: Raipur, C.G.

## ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR (CHHATTISGARH)


## Income &amp; Expenditure Account for the year ended 31/03/2022

Particulars	SCHEDULES	Current Year 2021-22	Previous Year 2020-21
<b>INCOME</b>		₹	₹
Income from Sales/ Services	12	10,85,50,085.32	5,58,24,531.19
Grants/ Subsidies	13	4,10,78,50,000.00	3,29,00,00,000.00
Fees/ Subscriptions	14	-	-
Income from Investments (Income on Investment from earmarked/ endow funds transferred to Funds, Rent)	15	-	-
Income from Royalty, Publication etc.	16	-	-
Interest Earned	17	3,11,68,754.00	2,15,39,066.00
Other Income	18	33,96,86,755.57	18,98,05,277.80
Increase/ (decrease) in stock of finished goods and work-in-progress	19	-	-
Excess Provision Made in FY 2020-21		4,74,158.00	-
Net Prior Period Income		(7,87,118.00)	-
<b>TOTAL (A)</b>		<b>4,58,69,42,634.89</b>	<b>3,55,71,68,874.99</b>

EXPENDITURE		₹	₹
Establishment Expenses	20	2,59,43,35,218.00	1,93,11,35,701.00
Other Administrative Expenses etc.	21	1,43,72,69,497.13	1,14,85,84,736.84
Expenditure on Grants, Subsidies etc.	22	4,71,062.00	15,86,103.00
Interest	23	-	-
Depreciation (Net Total at the year-end-corresponding to Schedule)	8	83,62,23,646.00	84,92,31,069.00
Expenses Under Swachhata Action Plan		2,32,35,493.00	70,27,305.00
Expenses Under PMJAY- Ayushman Bharat		6,49,14,033.04	-
Prior Period items		(12,22,343.00)	2,81,06,999.52
<b>TOTAL (B)</b>		<b>4,95,52,26,606.17</b>	<b>3,96,56,71,914.36</b>

Balance being excess of Expenditure over Income, this is indication of Deficit (A-B)		(36,82,83,971.28)	(40,85,03,039.37)
Transfer to Special Reserve (Specify each)		-	-
Transfer to / form General Reserve		-	-
<b>BALANCE BEING SURPLUS/ (DEFICIT) CARRIED TO CORPUS/ CAPITAL FUND</b>		<b>(36,82,83,971.28)</b>	<b>(40,85,03,039.37)</b>

SIGNIFICANT ACCOUNTING POLICIES AS PER SCHEDULE 24  
CONTINGENT LIABILITIES AND NOTES ON ACCOUNT AS PER SCHEDULE 25

  
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FINANCIAL ADVISOR

  
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**ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR (CHHATTISGARH)**

RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31/03/2022							
S.N.	RECEIPTS	Current Year 2021-22 ₹	Previous Year 2020-21 ₹	S.N.	PAYEMENTS	Current Year 2021-22 ₹	Previous Year 2020-21 ₹
I	<b>Opening Balance</b>			I	<b>Expenses</b>		
	a) Cash In Hand	7,06,038.00	16,23,892.00		a) Establishment Expenses	2,37,85,17,143.00	1,91,59,23,206.00
	b) Bank Balances				b) Administrative Expenses	1,24,68,22,791.09	1,10,20,20,170.08
	i) In Current Accounts	1,95,41,57,288.19	2,05,16,39,288.70		c) Expenses Under Swachhata Action Plan	2,32,35,493.00	70,27,305.00
	ii) In Saving Accounts	1,27,52,819.00	26,46,712.00				
II	<b>Grant Received</b>				<b>d) Others</b>		
	a) From Government of India				Net Contingent Advance Paid	31,93,859.00	24,48,901.50
	GIA General	1,23,00,00,000.00	1,21,00,00,000.00		Net Imprest Money Paid	33,25,385.00	36,76,783.00
	GIA Salaries	2,61,00,00,000.00	2,06,00,00,000.00		Net LIC Paid	4,94,565.00	18,98,935.00
	GIA Capital	90,00,00,000.00	1,25,00,00,000.00		Tour Advance Paid	6,02,333.00	52,000.00
	GIA Capital (PM-ABHIM)	26,61,00,000.00	-		Advance paid for Thesis	3,85,024.00	-
	GIA General (Swachhata Action Plan)	-	2,00,00,000.00		Special Festival Advance	-	5,02,124.00
	GIA General (ECRP-II)	23,75,50,000.00	-		Financial Assistance SAP	38,321.00	-
	GIA Salary (ECRP-II)	3,03,00,000.00	-		Contingent Advance under Kayakalp	55,000.00	98,400.00
III	<b>GIA Received for AIIMS Mangalagiri</b>	3,95,10,31,152.35	1,46,01,28,472.00		Contingent Advance against Extramural Fund	34,99,159.00	11,68,314.00
IV	<b>GIA Received for AIIMS Nagpur</b>	4,21,30,20,198.65	1,64,68,49,186.00		Contingent Advance (Intramural)	5,01,446.00	9,54,873.00
V	<b>Income on Investments</b>	-	-		Contingent Advance SAP	90,244.00	54,015.00
VI	<b>Interest Received</b>				Imprest Advance (PMJAY-Ayushman Bharat)	10,167.00	2,311.00
	a) On Bank Account	2,94,78,432.00	2,15,71,605.00		Imprest Advance (Special Fund)	-	10,000.00
	b) Interest received but refundable to MoHFW earned on GIA	4,31,01,470.00	8,05,78,859.00		PM Care Fund	1,17,283.00	40,24,988.00
VII	<b>Other Receipt</b>			II	<b>Payment made under Extramural Fund</b>	54,99,707.00	32,75,478.00
	Receipts From Hospital	10,40,42,134.10	5,34,99,789.83	III	<b>Investments and deposits made</b>		
	Admission Fees, Entrance Fees, Application Fees, Examination Fees, Other Receipt	45,07,951.22	22,64,646.36		a) Out of Earmarked/ Endowment funds	-	-
	Tender Related Receipt	-	4,59,000.00		b) Out of Own Funds	-	-
	Security deposit	8,11,175.00	20,90,592.00	IV	<b>Expenditure on Fixes Assets &amp; Capital Work- in Progress</b>		
	Earnest Money deposit (EMD)	15,60,007.60	2,04,17,321.00		a) Payment for Purchase of Fixes Assets	69,87,89,690.10	58,47,18,359.92
	Penalty Receipt from (SR/IR/PG Students etc.)	1,14,35,375.00	59,37,097.00		b) Payment to contractors for Work in Progress	52,17,12,194.00	8,36,620.00
	Received from Gym	9,700.00	-	V	<b>Refund of Surplus money/ Loans</b>		
	Receipts from Forfeiture of /EMD/FDR	-	4,45,651.80		a. EMD released	1,01,43,178.00	2,04,57,279.00
	Rent Received	5,220.00	-		b. Security Deposit released	20,77,086.00	22,09,818.00
	Donation under ARPAN	1,68,198.07	1,41,429.00		c. Withheld	-	-
	Income Tax Refund	9,730.00	72,29,769.00	VI	<b>Other Payments</b>		
	Special Festival Advance reversed back	5,02,124.00	-		a) TDS/ VAT/ Labour Cess/ Work Contract Tax, etc.	29,47,66,207.00	21,47,37,145.00
	Receipt from Mess Committee	48,549.00	-		c) Financial Assistance for CME/ Workshop	21,51,971.00	3,59,865.00
	Receipt from VRDL for TDS & GST	20,37,529.00	26,76,338.00		f) Net Payment for Mess Committee	-	95,504.00
	Receipt from Library	25,085.00	65,315.00		g) Payment made against advance deposited by patient	-	7,50,000.00



RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31/03/2022							
S.N.	RECEIPTS	Current Year 2021-22 ₹	Previous Year 2020-21 ₹	S.N.	PAYEMENTS	Current Year 2021-22 ₹	Previous Year 2020-21 ₹
	Contingent Advance (PMJAY- Ayushman Bharat)		12,155.00		h) Unclaimed EMD refund	1,35,000.00	-
	Receipt From AIIMS, Patna		3,39,902.00	VII	<b>Amount Paid to AIIMS Mangalagiri &amp; Nagpur</b>		
	Notice Period Recovery from Staff	31,94,924.00	41,92,951.00		GIa release for AIIMS Mangalagiri	4,02,31,69,930.00	1,45,18,11,946.00
	Receipt from Guest House	2,46,000.00	2,08,015.00		GIa release for AIIMS Nagpur	4,29,65,84,051.00	1,61,25,75,045.00
	Licence Fee depositd in cash	28,320.00	33,210.00		Net TDS Receivable from SBI and State Health Resource Centre	89,117.00	-
	Advance Salary	50,434.00	-	VIII	<b>Intramural Funds</b>	39,64,815.00	6,58,580.00
	Others	12,612.50	36,525.00	IX	<b>Payment under Provision Made</b>		
VIII	<b>PMJAY- Ayushman Bharat Claims Receipts</b>	29,25,88,855.00	13,96,34,557.00		Electricity Charges	1,04,40,740.00	1,01,08,720.00
IX	<b>Extramural Fund</b>	3,36,17,985.84	3,04,12,814.00	X	<b>Bills Payable to other than Employee</b>	17,45,836.00	28,60,968.00
X	<b>Advance depositd by Patient</b>	90,000.00	-	XI	<b>Advance to Contractor/ Supplier/ Consultant</b>	-	50,75,00,962.00
XI	<b>Income from Sale of Scrap</b>	3,24,791.00	1,80,400.00	XII	<b>Interest Refunded to MoHFW</b>	8,03,38,887.00	65,48,95,492.00
XII	<b>Interest Received from Income Tax Refund</b>	780.00	13,220.00	XIII	<b>Scholarship amount paid</b>	43,800.00	-
XIII	<b>Prior Period Income</b>	-	1,540.00	XIV	<b>Prior Period Item</b>	4,58,847.00	-
XIV	<b>Kayakalp Award Money Receipt</b>	22,73,000.00	-	XV	<b>Closing Balances</b>		
XV	<b>Scholarship amount received</b>	94,800.00	-		a) Cash in Hand	2,83,387.00	7,06,038.00
					b) Bank Balances		
					i) In Current Accounts	2,30,24,57,965.13	1,95,41,57,288.19
					ii) In Saving Accounts	2,01,42,057.20	1,27,52,819.00
	<b>TOTAL</b>	<b>15,93,58,82,678.52</b>	<b>10,07,53,30,252.69</b>		<b>TOTAL</b>	<b>15,93,58,82,678.52</b>	<b>10,07,53,30,252.69</b>

  
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**ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR (CHHATTISGARH)  
SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31/03/2022**

<b>SCHEDULE [1] CORPUS/ CAPITAL FUND</b>		
<b>Particulars</b>	<b>Current Year 2021-22 ₹</b>	<b>Previous Year 2020-21 ₹</b>
Balance as at the beginning of the year	9,54,50,07,713.20	8,70,35,10,752.57
Add: Contribution towards corpus/ capital fund	1,16,61,00,000.00	1,25,00,00,000.00
Add/(Deduct): Balance of net income/ (expenditure) transferred from the Income and Expenditure Account	(36,82,83,971.28)	(40,85,03,039.37)
Add:- Prior Period Items (Expenditure is overbooked in Previous Year)	-	-
Add:- Income Tax Refund Received	9,730.00	-
<b>BALANCE AT THE YEAR-END</b>	<b>10,34,28,33,471.92</b>	<b>9,54,50,07,713.20</b>

<b>SCHEDULE [2] RESERVE &amp; SURPLUS</b>		
<b>Particulars</b>	<b>Current Year 2021-22 ₹</b>	<b>Previous Year 2020-21 ₹</b>
<b>a) Capital Reserve:</b>		
As per last Account	-	-
Addition during the year	-	-
Less: Deductions during the year	-	-
<b>Total (a)</b>	<b>-</b>	<b>-</b>
<b>b) Revaluation Reserve</b>		
As per last Account	-	-
Addition during the year	-	-
Less: Deductions during the year	-	-
<b>Total (b)</b>	<b>-</b>	<b>-</b>
<b>c) Special Reserve</b>		
As per last Account	-	-
Addition during the year	-	-
Less: Deductions during the year	-	-
<b>Total (c)</b>	<b>-</b>	<b>-</b>
<b>d) General Reserve</b>		
As per last Account	-	-
Addition during the year	-	-
Less: Deductions during the year	-	-
<b>Total (d)</b>	<b>-</b>	<b>-</b>
<b>Total (a+b+c+d)</b>	<b>-</b>	<b>-</b>

  
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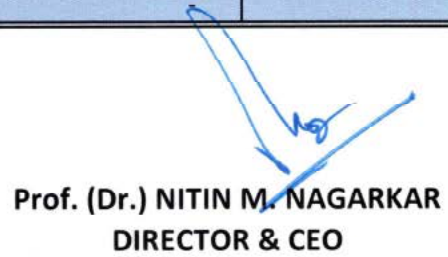
  
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SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31/03/2022**

<b>SCHEDULE [3] EARMARKED/ ENDOWMEN FUNDS</b>		
<b>Particulars</b>	<b>Current Year 2021-22 ₹</b>	<b>Previous Year 2020-21 ₹</b>
<b>a). Opening Balance of the funds</b>	-	-
<b>b). Addition to the funds:</b>	-	-
i) Donation/grants	-	-
ii) Income from investment made on account of fund	-	-
iii) Other addtion (specify nature)	-	-
<b>TOTAL (a+b)</b>	-	-
<b>c). Utilisation/ Expenses towards objective of funds</b>		
i) Capital Expenditure		
Fixed Assets	-	-
Others	-	-
<b>        Total</b>	-	-
ii) Revenue Expenditure		
Salaries, Wages and allowances etc.	-	-
Rent	-	-
Other Administrative expenses	-	-
<b>        Total</b>	-	-
<b>        Total c</b>	-	-
<b>NET BALANCE AS AT THE YEAR-END (a+b+c)</b>	-	-



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SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31/03/2022**

<b>SCHEDULE [4] SECURED LOANS AND BORROWINGS:</b>				
<b>Particulars</b>	<b>Current Year 2021-22</b>		<b>Previous Year 2020-21</b>	
	₹		₹	
<b>a) Central Government</b>		-		-
<b>b) State Government (Specify)</b>		-		-
<b>c) Financial Institutions</b>				
i) Term Loans	-		-	
ii) Interest accrued and due	-	-	-	-
<b>d) Banks:</b>				
i) Term Loans	-		-	
Interest accrued and due	-		-	
ii) Other Loans (Specify)	-		-	
Interest accrued and due	-	-	-	-
<b>e) Other Institutions and Agenices</b>	-	-		-
<b>f) Debenture and Bonds</b>	-	-		-
<b>g) Others (Specify)</b>	-	-		-
<b>Total</b>		-		-

Note: Amounts due within one year



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SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31/03/2022**

<b>SCHEDULE [5] UNSECURED LOANS AND BORROWINGS</b>		
<b>Particulars</b>	<b>Current Year 2021-22 ₹</b>	<b>Previous Year 2020-21 ₹</b>
a) Central Government	-	-
b) State Government (Specify)	-	-
c) Financial Institutions	-	-
d) Banks:	-	-
i) Term Loans	-	-
ii) Other Loans (Specify)	-	-
e) Other Institutions and Agencies	-	-
f) Debenture and Bonds	-	-
g) Others (Specify)	-	-
<b>Total</b>	-	-

Note: Amounts due within on year

<b>SCHEDULE [6] DEFERRED CREDIT LIABILITIES</b>		
<b>Particulars</b>	<b>Current Year 2021-22 ₹</b>	<b>Previous Year 2020-21 ₹</b>
a) Acceptances secured by hypothecation of capital equipment and other assets	-	-
b) Others	-	-
<b>Total</b>	-	-

Note: Amounts due within one year

  
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SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31/03/2022**

<b>SCHEDULE [7] CURRENT LIABILITIES AND PROVISIONS</b>				
<b>Particulars</b>	<b>Current Year 2021-22</b>		<b>Previous Year 2020-21</b>	
		₹		₹
<b>A) CURRENT LIABILITIES</b>				
i) Acceptances				
ii) Sundry Creditors				
a) For Goods				
b) Others				
ADS Diagnostic Ltd., New Delhi	15,008.00		15,008.00	
Ahluwalia Contractor (I) Ltd.	1,03,477.00		1,03,477.00	
Amrit Pharmacy	60,785.00		3,31,385.00	
AP Scanner	-		1,17,740.00	
Aryan Associates	-		56,500.00	
Assay Technologies, Raipur	-		24,187.00	
Bagree Enterprises	-		3,26,655.00	
Balaji Surgicals	24,517.00		24,517.00	
BV Enterprises	-		14,312.00	
Corp Meditech Pvt. Ltd.	2,46,896.00		2,46,896.00	
Daulat Surgical & Scientific Shop	24,761.00		24,761.00	
Deep Construction	-		2,20,260.00	
Dee Dee Enterprises	-		1,65,000.00	
DSS Imagetech P. Ltd., New Delhi	11,887.00		11,887.00	
Fianxo International LLP, Agra	-		2,43,040.00	
Getinge Medical Pvt. Ltd., Mumbai	65,832.00		65,832.00	
Global Enterprises, Raipur	-		14,626.00	
Hetachi Healthcare, Jabalpur	-		18,889.00	
Hites, Delhi	84,234.00		84,234.00	
Indian Surgical System	2,36,950.00		2,36,950.00	
Instromedix India P. Ltd., Delhi	-		22,535.00	
Intelligence Security of India Ltd.	7,09,395.00		-	
Jai Durga Traders, Raipur	-		24,095.00	
Jolly Technocrats	-		24,045.00	
JP Motors, Raipur	-		12,012.00	
Karl Storz Endoscopy India P Ltd.	2,783.00		27,343.00	
Konsole India Communications P Ltd.	-		23,364.00	
LSR Medical Pvt. Ltd.	-		17,14,852.00	
Medical Product Services	-		50,70,600.00	
Marrsis Disha, Haryana	-		23,990.00	
Mediglobe Medical Systemes (P) Ltd.	5,50,049.00		5,50,049.00	
Mediline Surgicals	1,10,880.00		1,10,880.00	
Midmark India P Ltd.	2,064.00		2,064.00	
Nuovi Pharmaceuticals, Raipur	-		38,880.00	
Pharma Deal	85,877.00		85,877.00	

<b>SCHEDULE [7] CURRENT LIABILITIES AND PROVISIONS</b>				
<b>Particulars</b>	<b>Current Year 2021-22</b>		<b>Previous Year 2020-21</b>	
		<b>₹</b>		<b>₹</b>
<b>A) CURRENT LIABILITIES</b>				
Prakhar Enterprises	-		1,49,400.00	
Rahul Tour & Travels Jagdalpur	-		74,708.00	
Red Cross Society	-		56,100.00	
Rishi Impex, Raipur	7,326.00		7,326.00	
R K Trading, Raipur	-		38,096.00	
Roche Diagnostics India P Ltd, Kolkata	-		1,26,000.00	
Rose Enterprises	-		2,49,800.00	
Scientific Traders	45,046.00		3,82,817.00	
Shri Vaishnavi Enterprises	-		23,400.00	
Senior Post Master Raipur	17,917.80		17,918.00	
Saatvik Sales & Services	-		24,775.00	
Sadariya International, Gujrat	-		40,012.00	
Science House Medicals P Ltd.	-		1,62,284.00	
Shivansh Enterprises	-		1,75,230.00	
Shree Narayan Medico Surgical	24,192.00		24,192.00	
Shri Jai Agencies, Raipur	-		62,619.00	
Shyam Ji Trading Company	-		9,582.00	
Siemens Healthcare P Ltd, Gurgaon	45,531.00		45,531.00	
Span Healthcare Pvt. Ltd.	-		22,068.00	
S P Enterprises, Kolkata	-		14,175.00	
Starkey Laboratories India P Ltd., UP	15,680.00		15,680.00	
Star Techno Engineering P Ltd., Haryana	-		24,600.00	
Supertech Solutions, Raipur	-		3,51,689.00	
Surana Enterprises	-		1,09,312.00	
Syma Medical and Dental Surgical, Raipur	-		41,884.00	
Terumo Penpol P Ltd, Thiruvananthapuram	-		24,480.00	
Tiwari Enterprises, Delhi	-		18,374.00	
Umesh Jain, Raipur	-		39,477.00	
VIT Computer	24,750.00		24,750.00	
Vandana Enterprises, Durg	-		7,000.00	
Vandana Printers & Suppliers, Raipur	-		25,000.00	
Vector Enterprises, Raipur	24,800.00		24,800.00	
Veer Traders	-		68,458.00	
Vision Enterprises	-		24,976.00	
Vodafone	334.00		334.00	
VR Enterprises, Jaipur	-		9,400.00	
Vraj Tour & Travels	-		55,473.00	
Yashraj Marketing, Raipur	21,900.00	<b>25,62,871.80</b>	44,000.00	<b>1,26,92,462.00</b>
<b>Employee related liabilities</b>				
a) Security deposit Employee	3,42,952.00		4,51,160.00	
b) Bill Payable to Employees	1,17,808.00		13,03,266.00	

SCHEDULE [7] CURRENT LIABILITIES AND PROVISIONS				
Particulars	Current Year 2021-22		Previous Year 2020-21	
		₹		₹
<b>A) CURRENT LIABILITIES</b>				
c) Other deduction	7,72,020.00	12,32,780.00	7,72,020.00	25,26,446.00
<b>Bills Payable to other than Employees</b>	42,872.00	42,872.00	1,07,822.00	1,07,822.00
iii) Secured Advance to Contractor / Suppliers	14,72,501.00	14,72,501.00		
<b>vi) Statutory Liabilities</b>				
a) TDS on GST				
i) CGST	8,26,617.00		11,96,380.00	
ii) SGST	8,26,617.00		11,96,380.00	
iii) IGST	5,28,822.00		16,22,166.00	
b) TDS Payable on Other than Salary	-		1,001.00	
c) Work Contract Tax Payable	-		-	
d) Labour Cess Payable	1,27,498.00		1,91,298.00	
e) TDS Payable on Salary	18,65,089.00		24,401.00	
f) Value Added Tax Payable	-	41,74,643.00	-	42,31,626.00
<b>v) Other current Liabilities</b>				
a) Special / Extramural Fund Received	3,87,67,982.28	3,87,67,982.28	3,64,30,180.44	3,64,30,180.44
b) Security deposit Vendor	2,25,13,609.00	2,25,13,609.00	2,16,64,209.00	2,16,64,209.00
c) Earnest Money Deposit	1,53,32,833.60	1,53,32,833.60	2,52,00,585.00	2,52,00,585.00
d) Advance depositd by Patients	5,78,683.00	5,78,683.00	4,88,683.00	4,88,683.00
<b>e) Withhelds</b>				
<b>1) Withheld for Service Tax</b>				
Rahul Tour & Travels	92,149.00		92,149.00	
Kone Elevator India Pvt. Ltd.	7,076.00		7,076.00	
BL Kashyap and Sons Ltd.	21,25,860.00		21,25,860.00	
Cubes Media & Branding Pvt. Ltd.	17,218.00		17,218.00	
Service Master Clean Ltd.	48,915.00	22,91,218.00	48,915.00	22,91,218.00
<b>2) Withheld other</b>				
Ghanshyam Laundry	19,112.00		19,112.00	
EDCIL (India) Ltd.	9,25,625.00		9,25,625.00	
M.J. Solanki	1,50,000.00		1,50,000.00	
BL Kashyap and Sons Ltd.	12,00,640.00		10,25,640.00	
Globus Infocom Ltd.	4,16,174.00		4,16,174.00	
R.S. Maintanance Services	2,000.00		2,000.00	
Shree Sai Services	10,000.00		10,000.00	
Punjilloyd LLtd.	1,00,000.00		1,00,000.00	
Ahluwallia Contractor	24,602.00		24,602.00	




<b>SCHEDULE [7] CURRENT LIABILITIES AND PROVISIONS</b>				
<b>Particulars</b>	<b>Current Year 2021-22</b>		<b>Previous Year 2020-21</b>	
	₹		₹	
<b>A) CURRENT LIABILITIES</b>				
Security & Intelligence Services	2,48,316.00		2,48,316.00	
Fortune Impex	43,754.00		43,754.00	
Medical Product Services	15,65,400.00		15,65,400.00	
Service India, Bhopal	25,000.00		25,000.00	
HSCC India Ltd.	67,13,384.00		67,13,384.00	
Ashlar India	5,41,090.00		3,84,647.00	
Manohar Lal Gawri	3,34,219.00		3,34,219.00	
Sanjari Construction	3,76,333.00		3,76,333.00	
Voltas Ltd.	14,83,358.00		14,83,358.00	
BVG India Ltd.	2,18,700.00		1,83,700.00	
Mali Payment	81,268.00		81,268.00	
Shree Enterprises	5,45,237.00		5,45,237.00	
Vraj Tours & Travells	34,000.00		34,000.00	
Getinge Medical P Ltd., Mumbai	77,18,746.00		77,18,746.00	
Aptech Ltd.	13,37,180.00		13,37,180.00	
Varad Corporation	20,085.00		20,085.00	
Midmark India P Ltd.	4,52,306.00		4,52,306.00	
Siemens Healthcare P Ltd, Gurgaon	24,86,850.00		24,86,850.00	
First Construction	56,134.00		56,134.00	
ADS Diagnostic Ltd., New Delhi	8,19,744.00		8,19,744.00	
Safeguard & Manpower Services	1,01,150.00		1,01,150.00	
Fortune Buildcon, Raipur	10,000.00		10,000.00	
Shree Krishna Green Estate	1,33,464.00		1,33,464.00	
Ma Durga Enterprise	18,630.00		-	
Wadia Enterprises	437.00		-	
India Medtronic P Ltd.	1,01,270.00		-	
Hospimedical International Ltd.	1,36,26,170.00		-	
Sai Associates	4,24,433.00		-	
PRG Associates	16,322.00		-	
Surana Enterprises	5,04,804.00		-	
Jeet Enterprises	21,150.00		-	
Shristi Enterprises	19,52,969.00	<b>4,48,60,056.00</b>	-	<b>2,78,27,428.00</b>
<b>3) Withheld for Completion Certificate</b>				
Globus Infocom Ltd.	38,661.00		38,661.00	
Manohar Lal Gawri	50,000.00		50,000.00	
Punjilloyd Ltd.	5,00,000.00		5,00,000.00	
Learn Nature Construction	50,000.00	<b>6,38,661.00</b>	50,000.00	<b>6,38,661.00</b>
<b>4) Withheld for EOT</b>				
Anil Mathani	1,50,000.00		1,50,000.00	
Print Vision, Nagpur	25,569.00		25,569.00	
Mahip Construction	45,265.00	<b>2,20,834.00</b>	-	<b>1,75,569.00</b>
<b>5) Withheld for Rectification</b>				

<b>SCHEDULE [7] CURRENT LIABILITIES AND PROVISIONS</b>				
<b>Particulars</b>	<b>Current Year 2021-22</b>		<b>Previous Year 2020-21</b>	
	₹		₹	
<b>A) CURRENT LIABILITIES</b>				
Pujloyd Ltd.	41,762.00		41,762.00	
Steel Case	20,000.00	<b>61,762.00</b>	20,000.00	<b>61,762.00</b>
<b>6) Withheld as per Clause 36 i</b>				
BL Kashyap and Sons Ltd.	19,00,000.00		18,50,000.00	
Punjloyd Ltd.	7,50,000.00		7,50,000.00	
Ahluwalia Contracts (I) Ltd.	1,50,000.00		1,50,000.00	
Pushkar Gokulka	60,000.00	<b>28,60,000.00</b>	60,000.00	<b>28,10,000.00</b>
<b>7) Withheld for EPF</b>				
C-Net Infotech Pvt. Ltd.	3,40,450.00		3,40,450.00	
M.J. Solanki	1,00,000.00	<b>4,40,450.00</b>	1,00,000.00	<b>4,40,450.00</b>
<b>8) Withheld for GST</b>				
Ahluwalia Contracts (I) Ltd.	1,50,764.00		1,50,764.00	
V-Raj Tour & Travels	67,208.00		67,208.00	
RS Maintenance Service	34,643.00		34,643.00	
Kasliwal Brothers	5,094.00		5,094.00	
Shree Sai Services	2,38,740.00	<b>4,96,449.00</b>	2,38,740.00	<b>4,96,449.00</b>
<b>9) Withheld for HRA and ESI</b>				
Security & Intelligence Services	66,78,267.00		66,78,267.00	
C-Net Infotech Pvt. Ltd.	1,39,306.00		1,39,306.00	
Service India, Bhopal	3,78,778.00	<b>71,96,351.00</b>	3,78,778.00	<b>71,96,351.00</b>
<b>10) Withheld for Vehicle</b>				
Ahluwalia Contracts (I) Ltd.	3,50,000.00	<b>3,50,000.00</b>	3,50,000.00	<b>3,50,000.00</b>
<b>11) Withheld for Waterproofing</b>				
PRG Associates	19,256.00	<b>19,256.00</b>	19,256.00	<b>19,256.00</b>
<b>12) Withheld for IGST</b>				
Schiller Healthcare India P Ltd	3,16,200.00	<b>3,16,200.00</b>	3,16,200.00	<b>3,16,200.00</b>
<b>13) Withheld till Warranty Period</b>				
Shree Krishna Green Estate	2,78,784.00		2,78,784.00	
Nischal Construction	32,587.00		78,793.00	
Bharat Medical System	1,120.00	<b>3,12,491.00</b>	-	<b>3,57,577.00</b>
<b>14) Withheld Uniform Washing Allowance</b>				
Security & Intelligence Services	2,69,362.00	<b>2,69,362.00</b>	2,69,362.00	<b>2,69,362.00</b>
<b>15) Withheld for Finalization of Tender</b>				
Hi-Tech Audio Systems Pvt. Ltd.	-	-	25,03,346.00	<b>25,03,346.00</b>

<b>SCHEDULE [7] CURRENT LIABILITIES AND PROVISIONS</b>				
<b>Particulars</b>	<b>Current Year 2021-22</b>		<b>Previous Year 2020-21</b>	
	<b>₹</b>		<b>₹</b>	
<b>A) CURRENT LIABILITIES</b>				
<b>16) Withheld for Storage Insurance</b>				
Methodex System Pvt. Ltd.	18,673.00	<b>18,673.00</b>	18,673.00	<b>18,673.00</b>
<b>17) Withheld for Warranty Amount</b>				
Shree Krishna Green Estate	1,33,143.00	<b>1,33,143.00</b>	1,33,143.00	<b>1,33,143.00</b>
<b>18) Withheld for Finalization of LD</b>				
Hitech Audio System P Ltd.	-		12,75,952.00	
Learn Nature Construction	2,63,218.00	<b>2,63,218.00</b>	2,63,218.00	<b>15,39,170.00</b>
<b>19) Withheld against commissioning of video wall system</b>				
Hitech Audio System P Ltd.	-	-	9,01,891.00	<b>9,01,891.00</b>
<b>20) Withhold Amount due to Non- Achivement of Milestone from Contractor</b>				
	24,22,692.00	<b>24,22,692.00</b>	24,22,692.00	<b>24,22,692.00</b>
<b>21) Withheld for maintanance of Street light</b>				
	55,856.00	<b>55,856.00</b>	55,856.00	<b>55,856.00</b>
<b>f) CG Government</b>				
	304.00	<b>304.00</b>	102.00	<b>102.00</b>
<b>g) GIA AIIMS NAGPUR</b>				
GIA Nagpur (Capital)	-		2,31,651.00	
GIA Nagpur (General)	-		11,41,95,808.00	
GIA Nagpur (Salary)	-	-	(10,13,075.00)	<b>11,34,14,384.00</b>
<b>h) GIA AIIMS MANGALAGIRI</b>				
GIA Mangalagiri (Capital)	-		(9,95,397.00)	
GIA Mangalagiri (General)	-		4,32,34,427.00	
GIA Mangalagiri (Salary)	-	-	-	<b>4,22,39,030.00</b>
<b>vi) Refundable to Oriana Fund</b>				
	1,14,271.00	<b>1,14,271.00</b>	1,14,271.00	<b>1,14,271.00</b>
<b>vii) Interest Refundable to MoHFW</b>				
Interest earned on BOI Current Plus A.C. (965420110000157) Operation	4,31,08,533.00	<b>4,31,08,533.00</b>	8,03,38,887.00	<b>8,03,38,887.00</b>
<b>viii) PM Cares Fund</b>				
	-	-	1,15,083.00	<b>1,15,083.00</b>
<b>ix) Student related liability</b>				
	51,000.00	<b>51,000.00</b>	-	-
<b>TOTAL (A)</b>		<b>19,31,79,555.68</b>		<b>39,03,88,824.44</b>

<b>SCHEDULE [7] CURRENT LIABILITIES AND PROVISIONS</b>				
<b>Particulars</b>	<b>Current Year 2021-22</b>		<b>Previous Year 2020-21</b>	
	₹		₹	
<b>A) CURRENT LIABILITIES</b>				
<b>B) PROVISIONS</b>				
i) For Taxation	-	-	-	-
ii) Gratuity	-	-	-	-
iii) Superannuation/ Pension	-	-	-	-
iv) Accumulated Leave Encashment	-	-	-	-
v) Trade Warranties/ Claims	-	-	-	-
vi) Electricity Expenses Payable	1,28,23,370.00	1,28,23,370.00	1,04,40,740.00	1,04,40,740.00
vii) External Remittance	7,434.00	7,434.00	(2,20,099.00)	(2,20,099.00)
viii) NPS Payable	35,32,953.00	35,32,953.00	76,98,794.00	76,98,794.00
ix) Salary Payable	9,52,486.00	9,52,486.00	9,58,819.00	9,58,819.00
x) Telephone Expenses Payable	1,03,091.00	1,03,091.00	1,75,668.00	1,75,668.00
xi) CAG Audit Fees Payable	2,50,000.00	2,50,000.00	1,60,000.00	1,60,000.00
xii) Childeren Education Allowance Payable	90,00,000.00	90,00,000.00	75,00,000.00	75,00,000.00
xiii) Learning Resource Allowance Payable	2,50,00,000.00	2,50,00,000.00	2,40,00,000.00	2,40,00,000.00
xiv) General Provident Fund	3,32,90,426.00	3,32,90,426.00	2,83,28,676.00	2,83,28,676.00
<b>TOTAL (B)</b>		<b>8,49,59,760.00</b>		<b>7,90,42,598.00</b>
<b>GRAND TOTAL (A+B)</b>		<b>27,81,39,315.68</b>		<b>46,94,31,422.44</b>

  
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SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31/03/2022**

<b>SCHEDULE [9] INVESTMENTS FROM EARMARKED/ ENDOWMENT FUNDS</b>		
<b>Particulars</b>	<b>Current Year 2021-22 ₹</b>	<b>Previous Year 2020-21 ₹</b>
a) In Government Securities	-	-
b) Other approved Securities	-	-
c) Shares	-	-
d) Debentures and Bonds	-	-
e) Subsidiaries and Joint Ventures	-	-
f) Others (to be specified)	-	-
<b>Total</b>	-	-

<b>SCHEDULE [10] INVESTMENT OTHERS</b>		
<b>Particulars</b>	<b>Current Year 2021-22 ₹</b>	<b>Previous Year 2020-21 ₹</b>
a) In Government Securities	-	-
b) Other approved Securities	-	-
c) Shares	-	-
d) Debentures and Bonds	-	-
e) Subsidiaries and Joint Ventures	-	-
f) Others (FDR in Bank of India)	-	-
<b>Total</b>	-	-



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SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31/03/2022**

<b>SCHEDULE [11] CURRENT ASSETS, LOANS, ADVANCES ETC.</b>				
<b>Particulars</b>	<b>Current Year 2021-22</b>		<b>Previous Year 2020-21</b>	
		<b>₹</b>		<b>₹</b>
<b>CURRENT ASSETS</b>				
<b>a) Inventories</b>				
1 Stores and Spares	-		-	
2 Loose Tools	-		-	
3 Stock in trade	-		-	
Finished Goods	-		-	
Work in progress	-		-	
Raw Materials	-		-	
<b>b) Sundry Debtors:</b>				
<b>1 Debts Outstanding for a period exceeding six months</b>				
i) Mess Committee	46,955.00	<b>46,955.00</b>	95,504.00	<b>95,504.00</b>
<b>2 Others</b>				
i) Rent Receivable				
a) Seema Agency	35,780.00		35,780.00	
b) Amul Parlour	(11,236.00)		(1,97,524.00)	
ii) VRDL	44,896.80	<b>69,440.80</b>	17,26,951.80	<b>15,65,207.80</b>
<b>3 Statutory Dues Receivable</b>				
i) TDS Receivable from State Bank of India	52,998.00		-	
ii) TDS Receivable on account of deduction made by State Health Resource Centre.	36,119.00	<b>89,117.00</b>	-	
<b>c) Cash balances in hand (including cheques and imprest)</b>	2,83,387.00	<b>2,83,387.00</b>	7,06,038.00	<b>7,06,038.00</b>
<b>d) Bank Balances:</b>				
<b>1 With Scheduled Banks</b>				
<b>On Current Accounts</b>				
a) Bank of India Current Plus A/c No. 935420110000157	1,29,41,43,724.43		1,31,84,42,514.14	
b) Bank of India Current Plus A/c No. 936320110000024	48,39,78,035.02		41,32,94,533.40	
c) State Bank of India (ARPAN) A/c No. 36721449858	1,82,17,920.59		1,77,10,222.52	
d) PMJAY-Ayushman Bharat (A/c No.: 936320110000307)	41,65,97,890.45		17,65,22,503.49	
e) State Bank of India (Pension & PF Fund) 39381410389	3,40,76,069.64		2,81,87,514.64	
f) HDFC Bank (50100469127051)	5,54,44,325.00	<b>2,30,24,57,965.13</b>	-	<b>1,95,41,57,288.19</b>
<b>On deposit Accounts( including margin money)</b>				
<b>On Saving Account</b>				
a) Bank of India (Research Grant) A/c No. 936310110005302	2,01,42,057.20	<b>2,01,42,057.20</b>	1,27,52,819.00	<b>1,27,52,819.00</b>
<b>2 With Non-Scheduled Banks</b>				

SCHEDULE [11] CURRENT ASSETS, LOANS, ADVANCES ETC.				
Particulars	Current Year 2021-22		Previous Year 2020-21	
	₹		₹	
On Current Accounts	-	-	-	-
On deposit Accounts( including margin money)	-	-	-	-
On Saving Account	-	-	-	-
e) Post office- Savings Account	-	-	-	-
f) Advances & Security Deposits				
1) Advances to Contractors/ Vendors				
HSCC (I) Ltd.	4,01,628.00		4,01,628.00	
Adprayas, Raipur	-		3,113.00	
BPL Medical Technologies, Delhi	2,402.00		2,402.00	
Elite Trading Co., Delhi	6,042.00		6,042.00	
Godrej & Boyce Mfg. Co. Ltd.	-		8,112.00	
Intec India Ltd., Delhi	7,781.00		7,781.00	
Linde India Ltd, Orissa	24,313.00		24,313.00	
Mohan Poddar, Raipur	-		50,083.00	
Sai Associates, Durg	-		11,180.00	
Security and Intelligence Services	4,600.00		4,600.00	
Shivam Publicity, Raipur	-		14,400.00	
Shri B Gopa Kumar	8,040.00		8,040.00	
Mukesh & Associates	1,31,100.00		1,31,100.00	
Sage Publication	45,847.83		45,847.83	
Total Library Solution	2,22,881.30		2,22,881.30	
Advance to HLL for PICU	4,70,13,600.00		4,70,13,600.00	
BL Kashyap and Sons Ltd. (Interim Advance)	50,58,574.00		4,63,94,443.00	
HLL Lifecare Ltd. (Under SAP)	-		1,00,99,110.00	
HLL Lifecare Ltd. (For PCR Kit)	-		57,50,000.00	
HLL Infra Tech Services Ltd.	2,76,060.00		-	
Punjloyd Ltd. (Interim Advance)	1,19,68,602.00		1,19,68,602.00	
Pushkar Gokulka	-		4,91,528.00	
Ultra Tech Laboratories Pvt. Ltd.	7,500.00		7,500.00	
Winglobe Healthcare P. Ltd. Bangalore	31,800.00		31,800.00	
Voltas Ltd. (Interim Advance)	-		53,14,701.00	
Registrar IIT Madras	18,77,616.00	6,70,88,387.13	-	12,80,12,807.13
2) Other Advances				
Advance for OLA Uber Top-Up	15,138.00		-	
Contingent Advances	23,59,179.75		27,10,306.75	
Contingent Advance (Extramural Fund)	28,38,285.24		22,35,949.24	
Imprest Money	72,337.00		1,51,295.00	
LTC Advances	54,000.00		1,90,300.00	
LTC & EL Advance (Cash Package)	-		14,89,868.00	
Tour Advances	7,20,429.00		10,67,526.00	
Contingent Advance (SAP)	60,000.00		-	
Financial Assistance for CME/ Workshop	1,50,000.00		(60,924.00)	
Financial Assistance for Thesis	1,26,000.00		-	



<b>SCHEDULE [11] CURRENT ASSETS, LOANS, ADVANCES ETC.</b>				
<b>Particulars</b>	<b>Current Year 2021-22</b>		<b>Previous Year 2020-21</b>	
	₹		₹	
Imprest Money (PMJAY-Ayushman)	-		2,311.00	
Imprest Money (Special Fund)	-		10,000.00	
Advance Salary	20,98,919.00		82,888.00	
Contingent Advance (Kayakalp)	-		98,400.00	
Contingent Advance (Intramural)	9,63,744.00		7,79,903.00	
Special Festival Advance	-	<b>94,58,031.99</b>	5,02,124.00	<b>92,59,946.99</b>
<b>3) Security Deposits</b>				
i) Security deposit with BSNL	14,845.00		14,845.00	
ii) Security deposit with CSPDCL	93,91,349.71	<b>94,06,194.71</b>	93,91,349.71	<b>94,06,194.71</b>
<b>4) Intramural Fund Balance</b>	4,26,981.00	<b>4,26,981.00</b>	2,59,927.00	<b>2,59,927.00</b>
<b>5) Secured Advance to Contractor Supplier</b>	-	-	12,56,190.00	<b>12,56,190.00</b>
<b>TOTAL</b>		<b>2,40,94,68,516.96</b>		<b>2,11,74,71,922.82</b>

Note: Amounts due within one year



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**SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNTS AS ON 31/03/2022**

<b>SCHEDULE [12] INCOME FROM SALES/ SERVICES</b>		
<b>Particulars</b>	<b>Current Year 2021-22 ₹</b>	<b>Previous Year 2020-21 ₹</b>
<b>a) Income from Sales</b>		
i) Sale of Finished Goods	-	-
ii) Sale of Raw Material	-	-
iii) Sale of Scrape	-	-
<b>b) Income from Services</b>		
<b>i) Receipts From Medical College</b>		
a) Admission Fees	20,62,972.00	17,89,555.00
b) Entrance Fees	23,83,693.00	4,30,702.36
c) Examination Fees	44,200.00	27,360.00
d) Student Transcript Fee	10,000.00	10,500.00
e) Other Receipts	7,086.22	6,529.00
<b>ii) Receipts From Hospital</b>	10,40,42,134.10	5,35,59,884.83
<b>Total</b>	<b>10,85,50,085.32</b>	<b>5,58,24,531.19</b>

  
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<b>SCHEDULE [13] GRANTS/ SUBSIDIES</b>		
<b>Particulars</b>	<b>Current Year 2021-22 ₹</b>	<b>Previous Year 2020-21 ₹</b>
(Irrevocable grants & Subsidies Received)		
a) Central Government (Ministry of Health & Family Welfare))		
i) Grants-in-Aid (Salary)	2,61,00,00,000.00	2,06,00,00,000.00
ii) GIA- Salary (ECRP-II)	3,03,00,000.00	-
iii) Grants-in-Aid (General)	1,23,00,00,000.00	1,21,00,00,000.00
iv) GIA- General (ECRP-II)	23,75,50,000.00	-
v) Grants-in-Aid (Creation of Capital Assets)	90,00,00,000.00	1,25,00,00,000.00
vi) Grants-in-Aid (Swachhata Action Plan) (General)	-	2,00,00,000.00
vii) GIA- Creation of Capital Assets (Non Recurring) PM-ABHIM	26,61,00,000.00	-
b) State Government	-	-
c) Government Agencies	-	-
d) Institutions/ Welfare Bodies	-	-
e) International Organisations	-	-
f) Others (specify)	-	-
<b>Total</b>	<b>5,27,39,50,000.00</b>	<b>4,54,00,00,000.00</b>



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**SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNTS AS ON 31/03/2022**

<b>SCHEDULE [14] FEES/ SUBSCRIPTIONS</b>		
<b>Particulars</b>	<b>Current Year 2021-22 ₹</b>	<b>Previous Year 2020-21 ₹</b>
a) Entrance Fees	-	-
b) Annual Fees/ Subscriptions	-	-
c) Seminar/ Program Fees	-	-
d) Consultancy fees	-	-
e) Others (Specify)	-	-
<b>Total</b>	-	-

<b>SCHEDULE [15] INCOME FROM INVESTMENT</b>		
<b>(Income on Invest. From Earmarked/ Endowment Funds transferred to Funds, Rent etc.)</b>	<b>2021-22 ₹</b>	<b>2020-21 ₹</b>
<b>a) Interest</b>		
i) On Govt. Securities (Bank Interest)	-	-
ii) Other Bond/ Debentures	-	-
<b>b) Dividends:</b>		
i) On Shares	-	-
ii) On Mutual Fund Securities	-	-
<b>c) Rents</b>	-	-
<b>d) Others</b>	-	-
<b>Total</b>	-	-

<b>SCHEDULE [16] INCOME FROM ROYALTY, PUBLICATION ETC.</b>		
<b>Particulars</b>	<b>Current Year 2021-22 ₹</b>	<b>Previous Year 2020-21 ₹</b>
a) Income From Royalty	-	-
b) Income from Publications	-	-
c) Others (Specify)	-	-
<b>Total</b>	-	-



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<b>SCHEDULE [17] INTEREST EARNED</b>		
<b>Particulars</b>	<b>Current Year 2021-22 ₹</b>	<b>Previous Year 2020-21 ₹</b>
<b>a) On FFD deposits :</b>		
i) With Scheduled Banks	2,90,43,810.00	2,13,49,945.00
ii) With Non Scheduled Banks	-	-
iii) With Institutions	-	-
iv) Others	-	-
<b>b) On Saving Accounts:</b>		
i) With Scheduled Banks	4,08,963.00	1,75,901.00
ii) With Non Scheduled Banks	-	-
iii) With Institutions	-	-
iv) Others	-	-
<b>c) On Loans</b>		
i) Employees/ Staff	-	-
ii) Others	-	-
<b>d) Interest from CSEB</b>	17,15,201.00	-
<b>e) Interest received from Income Tax Refund</b>	780.00	13,220.00
<b>Total</b>	<b>3,11,68,754.00</b>	<b>2,15,39,066.00</b>



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<b>SCHEDULE [18] OTHER INCOME</b>		
	<b>Current Year 2021-22</b>	<b>Previous Year 2020-21</b>
	₹	₹
<b>a) Profit on Sale/ disposal of Assets</b>		
i) Sale of Scrap	3,24,791.00	1,82,885.00
<b>b) Licence Fees</b>	25,84,832.00	31,54,072.00
<b>c) Tender Fees</b>	-	4,59,000.00
<b>d) Miscellaneous Income</b>		
i) Liquidated Damage	81,09,755.00	1,67,29,313.00
ii) Notice Period Recovery from Staff	32,22,510.00	41,92,951.00
iii) Forfeiture of SD/EMD/FDR	-	4,45,651.80
iv) Received from Guest House	3,85,940.00	2,08,015.00
v) Other Receipts	9,29,088.50	3,92,884.00
vi) Received from Gym	9,700.00	-
vii) General Damage	99,616.00	1,64,571.00
viii) Penalty Receipts	1,15,50,242.00	62,13,866.00
ix) Receipt from Labour Charges Collection	15,258.00	11,363.00
x) Receipt from Postal Order deposits/RTI Fee	2,725.00	3,386.00
xi) Demmuration Charges	-	1,26,451.00
xii) Receipt From Library	25,085.00	65,315.00
<b>e) Rent Received</b>	1,91,508.00	1,97,075.00
<b>f) Receipt in ARPAN Fund</b>	2,88,298.07	2,91,029.00
<b>g) Employee Health Scheme</b>	79,98,200.00	72,17,800.00
<b>h) Kayakalp Award Money Receipt</b>	22,73,000.00	-
<b>i) PMJAY-Ayushman Bharat Claim Receipts</b>	29,25,88,855.00	13,96,34,557.00
<b>j) Unclaimed Creditors more than 3 years old</b>	70,09,445.00	13,75,494.00
<b>k) Unclaimed Earnest Money Deposits more than 3 years old</b>	11,49,581.00	50,35,175.00
<b>l) Unclaimed Security Deposits by Vendor's more than 3 years old</b>	5,93,113.00	28,63,483.00
<b>m) Unclaimed Security Deposits by Employees more than 3 years old</b>	3,35,213.00	-
<b>n) Income Tax Refund Received</b>	-	8,40,941.00
<b>Total</b>	<b>33,96,86,755.57</b>	<b>18,98,05,277.80</b>



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<b>SCHEDULE [19] INCREASE/ (DECREASE) IN STOCK IN FINISHED GOODS</b>		
<b>Particulars</b>	<b>Current Year 2021-22 ₹</b>	<b>Previous Year 2020-21 ₹</b>
a) Closing Stock	-	-
Finished Goods	-	-
Work-in-progress	-	-
b) Less: Opening Stock	-	-
Finished Goods	-	-
Work-in-progress	-	-
<b>NET INCREASE/ (DECREASE) (a-b)</b>	<b>-</b>	<b>-</b>



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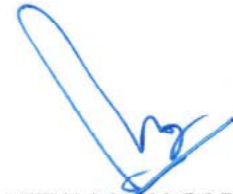
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<b>SCHEDULE [20] ESTABLISHMENT EXPENSES</b>		
<b>Particulars</b>	<b>Current Year 2021-22 ₹</b>	<b>Previous Year 2020-21 ₹</b>
Salaries, wages	1,38,17,55,240.00	1,09,10,86,055.00
Allowances	96,68,19,545.00	72,43,02,467.00
Contribution to New Pension Scheme	21,66,94,956.00	9,40,60,648.00
Leave Salary and Pension Contribution for deputed Officer/Faculty	50,69,170.00	75,13,612.00
Staff welfare expenses	-	-
Others (Leave Travel Concession)	2,39,96,307.00	1,21,72,919.00
Gratuity	-	20,00,000.00
<b>Total</b>	<b>2,59,43,35,218.00</b>	<b>1,93,11,35,701.00</b>



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<b>SCHEDULE [21] OTHER ADMINISTRATIVE EXPENSES ETC.</b>		
<b>Particular</b>	<b>Current Year 2021-22 ₹</b>	<b>Previous Year 2020-21 ₹</b>
Electricity and Power	14,51,96,734.00	12,57,68,267.00
Repair and Maintenance	3,85,30,214.00	5,10,35,209.00
Advertisement	31,06,968.00	90,74,491.00
Telephone	39,87,868.00	42,51,175.00
Postal charges	1,74,139.80	1,73,512.70
Printing and Stationary	1,19,77,557.00	1,17,04,794.18
Training & Development Expenses	2,67,594.00	-
Entertainment expenses	1,82,503.00	5,11,992.00
Meeting Expenses	18,47,206.00	31,80,147.34
Outsourcing expenses	37,35,13,772.00	39,60,70,118.00
Learning Resource Allowances	2,50,00,000.00	2,40,00,000.00
Medicine & Consumables	66,04,03,383.00	40,12,31,855.84
Travelling	57,70,504.00	59,29,014.00
Conference/Seminar Expenses	24,39,256.00	40,016.00
Software Maintenance Expenses	13,95,253.00	9,89,057.00
Electrical Maintenance Expenses	1,98,91,552.00	64,04,644.00
Diet for Patient	4,47,80,403.00	4,19,86,025.00
Books, News Paper, Magazines	23,84,499.00	10,74,706.00
E-Journal Subscription	1,90,31,317.27	1,42,44,633.70
Office Expenses	29,70,389.00	5,92,587.00
Garbage Disposal Expenses	24,17,070.00	82,96,912.00
Rent & Hire Charges	44,99,303.00	68,44,946.00
Fuel Charges	11,34,624.00	13,43,204.00
Professional Legal & Statutory Charges	63,77,667.00	24,49,755.00
Audit Expenses	3,21,465.00	1,60,000.00
Bank Charges	1,32,742.06	1,64,870.14
Insurance	65,271.00	1,75,155.00
Computer Repair & Maintenance	16,71,826.00	1,27,310.00
Examination Expenses for various recruitment	5,80,616.00	1,13,57,094.00
Electricity Additional Loading Charges	-	9,44,000.00
Municipal Taxes	38,49,000.00	38,35,800.00
Admission fees (Transfer/Refund)	-	3,027.00
Prize Distribution Expenses	3,27,340.00	2,34,000.00
Stipend Paid to Students	4,01,10,250.00	36,21,533.00
General Consumable for Office Management	1,13,74,505.00	98,14,183.94
Freight Expenses	41,920.00	-
Book Allowance	1,29,857.00	1,13,517.00
Bag Allowance	8,10,112.00	2,67,490.00
Emolument Paid Under Intramural Fund	5,34,695.00	5,19,293.00
Lease Rent Expenses	2.00	2.00
Fixed Assets Not Usable	-	50,400.00
Sports Activity Expenses	40,120.00	-
<b>Total</b>	<b>1,43,72,69,497.13</b>	<b>1,14,85,84,736.84</b>

  
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<b>SCHEDULE [22] EXPENDITURE ON GRANTS, SUBSIDIES ETC.</b>		
<b>Particular</b>	<b>Current Year 2021-22 ₹</b>	<b>Previous Year 2020-21 ₹</b>
a) Grants given to Institution/ Organisations	-	-
b) Subsidies given to Institutions/ Organisations	-	-
c) Expenses Under Kayakalp Award Money Receipt	4,71,062.00	15,86,103.00
<b>Total</b>	<b>4,71,062.00</b>	<b>15,86,103.00</b>

<b>SCHEDULE [23] INTEREST</b>		
<b>Particular</b>	<b>Current Year 2021-22 ₹</b>	<b>Previous Year 2020-21 ₹</b>
a) On Fixed Loans	-	-
b) On Other Loans (Including Bank Charges)	-	-
c) Others (Specify)	-	-
<b>Total</b>	<b>-</b>	<b>-</b>

  
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## ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR (CHHATTISGARH)

## UTILIZATION CERTIFICATE FOR THE PERIOD 01.04.2021 TO 31.03.2022

UTILIZATION DETAILS		
Particular		Current Year 2021-22 ₹
<b>Opening Balance of Grants</b>		
GIA- Salary	17,19,40,687.00	
GIA- General	12,37,72,908.15	
GIA- Creation of Capital Assets	39,15,96,959.17	
GIA- Creation of Capital Assets (Non Recurring)	3,50,000.00	
GIA- Creation of Capital Assets (Non Recurring) PM-ABHIM	-	
GIA- General (Swatchhata Action Plan)	8,99,04,219.00	
GIA- General (ECRP-II)	-	
GIA- Salary (ECRP-II)	-	77,75,64,773.32
<b>(+) Grant Received During The Year</b>		
GIA- Salary	2,61,00,00,000.00	
GIA- General	1,23,00,00,000.00	
GIA- Creation of Capital Assets	90,00,00,000.00	
GIA- Creation of Capital Assets (Non Recurring)	-	
GIA- Creation of Capital Assets (Non Recurring) PM-ABHIM	26,61,00,000.00	
GIA- General (Swatchhata Action Plan)	-	
GIA- General (ECRP-II)	23,75,50,000.00	
GIA- Salary (ECRP-II)	3,03,00,000.00	5,27,39,50,000.00
<b>(-) Utilization During the Year</b>		
GIA- Salary	2,56,40,35,218.00	
GIA- General	1,19,97,19,497.13	
GIA- Creation of Capital Assets	1,15,03,20,703.82	
GIA- Creation of Capital Assets (Non Recurring)	-	
GIA- Creation of Capital Assets (Non Recurring) PM-ABHIM	-	
GIA- General (Swatchhata Action Plan)	2,32,35,493.00	
GIA- General (ECRP-II)	23,75,50,000.00	
GIA- Salary (ECRP-II)	3,03,00,000.00	5,20,51,60,911.95
<b>Unspent Balance on Grants</b>		
GIA- Salary	21,79,05,469.00	
GIA- General	15,40,53,411.02	
GIA- Creation of Capital Assets	14,12,76,255.35	
GIA- Creation of Capital Assets (Non Recurring)	3,50,000.00	
GIA- Creation of Capital Assets (Non Recurring) PM-ABHIM	26,61,00,000.00	
GIA- General (Swatchhata Action Plan)	6,66,68,726.00	
GIA- General (ECRP-II)	-	
GIA- Salary (ECRP-II)	-	84,63,53,861.37

  
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<b>SCHEDULE- 24</b>
---------------------

**SIGNIFICANT ACCOUNTING POLICIES AND NOTES TO ACCOUNTS AS ON 31.03.2022****A. ACCOUNTING CONVENTION**

- The financial statement is prepared on the basis of historical cost convention, unless otherwise stated and on the accrual method of accounting.
- Since the first Annual Account, the Institute has been following the Accounting Policy wherein, bills/payments approved by the competent authority on or before 31st March of the Financial Years but were not settled before the closure of the financial year are treated as Current Liabilities and necessary provisions are made for the same. For rest of the bills, payments are made as and when the approval is received and is accounted for in that particular financial year.

**B. INVESTMENTS**

- No investment made during the year ended on 31<sup>st</sup> March 2022.

**C. FIXED ASSETS**

- Fixed Assets are stated at the cost of acquisition inclusive of inward freight, duties and taxes, incidental and direct expenses related to acquisition. In respect to projects involving construction, related preoperational expenses form part of the value of the assets capitalized.

**D. DEPRECIATION**

- Depreciation is provided on written down value of assets. Rate of depreciation has been taken from rates specified in Income Tax Act 1961.
- Assets which are purchased or created in financial year 2021-22 but no put to use dates are provided, management has taken date of purchase as date of acquisition/date of put to use and depreciation has been charged accordingly.

**E. REVENUE RECOGNITION**

- Revenue from sales and service as reflecting in Income & Expenditure Accounts includes fees collected from students, collections from hospital (OPD, IPD, DIAGNOSTIC TEST, etc.) on cash basis. Only income from bank deposits has been considered on accrual basis.

**F. MISCELLANEOUS EXPENDITURE**

- No Miscellaneous expenditure concept apply in AIIMS, Raipur.

**G. GOVERNMENT GRANTS AND SUBSIDIES**

- Government Grants received from Ministry of Health and Family welfare, Government of India for creation of Capital Asset has directly been transferred to Corpus and Capital Fund, under Capital Account in Balance Sheet.

- Government Grants received from Ministry of Health and Family welfare, Government of India for Salary and General has directly been transferred to Income and expenditure account, under Grants and Subsidies head.

#### H. FOREIGN CURRENCY TRANSACTIONS

- Transaction denominated in foreign currency are accounted at the exchange rate prevailing at the date of the transaction.

#### I. RETIREMENT BENEFITS

- Being the fully funded Central Autonomous Body and Institute of National Importance, under the Ministry of Health & Family Welfare, Government of India, no provision for retirement benefit for gratuity etc. are made or accounted for, as being done by other AIIMS including AIIMS New Delhi. The Payment & Accounting for these liabilities will be done on cash basis from GIA (Salary) as and when this liability will arise. Further the Institute has opened an interest bearing Pension & Fund Account in State Bank of India, Raipur for those faculties whose Prorata Pensionary benefits have been received from their previous employers.

Some employees have joined AIIMS, Raipur on technical resignation and have been given the benefit of Old Pension Scheme. Accordingly, their GPF Subscription has been deducted. Their GPF Subscription and Prorata Pensionary benefits of ₹ 3,32,90,426.00 is to be transferred in above bank account as shown in Schedule-7.

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**SCHEDULE- 25****CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS****A. CONTINGENT LIABILITIES**

- Letter of Credit opened by Bank on behalf of the entity, for which the payments are due to be paid, as on 31.03.2022 are follow:-

LC Number	Beneficiary Name	Currency	Opening Value in foreign currency	Outstanding value in INR
9357FLCDP200002	Medtronic Trading NL BV, Netherlands	USD	31,207.00	23,69,547.51
9357FLCDP200013	Hamilton Medical AG, Switzerland	USD	5,35,635.00	1,01,67,691.39
9357FLCDP200017	Wipro GE Healthcare Pvt. Ltd., Singapore	USD	1,49,408.00	34,03,364.83
9350FLCDP220001	AD Instruments Pvt. Ltd., Australia	USD	32,500.00	24,67,725.00
9357FLCDP190011	Olympus Corporation, Japan	JPY	24,50,000.00	15,27,820.00
9350FLCDP210004	Supersonic Imagine SA	EURO	1,63,770.00	41,30,050.12
<b>Total</b>				<b>2,40,66,198.85</b>

**B. CURRENT ASSETS, LOANS & ADVANCES, CURRENT LIABILITY**

- In opinion of management, current assets, loans & advances and Current Liability have a value on realization in the ordinary course of business, equal at least to the aggregate amount shown in the Balance Sheet.

**C. TAXATION**

- In view of management there being no taxable income under Income Tax Act 1961, therefore no provision for Income Tax has been made in books of accounts.

**D. FOREIGN CURRENCY TRANSACTION**

Value of Imports Calculated		2021-22	2020-21
i.	Purchase of Finished Goods	Nil	Nil
ii.	Raw Material & Components (Including in Transit)	Nil	Nil
iii.	Capital Goods	1,85,73,214.82	₹9,63,34,656.32
iv.	Stores, Spares and Consumables/Software renewal	1,85,66,235.27	₹1,42,44,633.70

**E. Bank Guarantee/ FDR Detail**

PSD in the form of Bank Guarantee and FDR kept in AIIMS, Raipur as on dated 31.03.2022 is as below:-

S.N.	Department	Amount in Crore
1	Project Cell for Packages/DPR Works	54,18,59,277.00
2	Project Cell for Non-DPR Works	55,27,432.00
3	Administration	2,36,30,518.00
4	Stores Central	8,10,81,022.76
5	Stores Hospital	1,94,70,946.60
6	Security Department	1,62,69,973.00

Along with above Administration department, AIIMS Raipur has \$61473.80 as BG/FDR.

**F. Other Notes**

1. Corresponding figures for the previous year has been re-grouped and re-arranged wherever found necessary.
2. Schedule 1-25 are annexed to and form an integral part of the balance sheet as on 31.03.2022 and Income and Expenditure for the year ended on the date.
3. Amount transferred from WIP to Fixed Assets are as under :-

S.No.	Fixed Assets Head	Amount in ₹
1	Building	3,94,65,236.00
2	Office Machinery & Equipment	48,71,040.00
<b>Total</b>		<b>4,43,36,276.00</b>

4. AIIMS Raipur is the mentor Institute for AIIMS Nagpur and AIIMS Mangalagiri, and the Ministry of Health & Family Welfare, transfers the Grants in Aids to these Institute through AIIMS Raipur. During the Financial Year the cash flow of these Institute through AIIMS Raipur are as follow:-

Name of the Institute	Opening Balance Payable/Receivable	Fund received during the Year	Total Fund	Fund Disbursed during the year	Balance Payable/Receivable
AIIMS Mangalagiri	4,22,39,030.00	3,98,09,30,900.35	4,02,31,69,930.35	4,02,31,69,930.35	Nil
AIIMS Nagpur	11,34,14,384.00	4,21,30,20,198.65	4,32,64,34,582.65	4,32,64,34,582.65	Nil

The accounts of AIIMS Mangalagiri and Nagpur had been closed in the books of accounts of AIIMS Raipur and all the balance funds had been transferred to their respective bank accounts.

As per the decision taken by Ministry of Health & Family Welfare, the HEFA loan taken in respect of AIIMS Mangalagiri and AIIMS Nagpur has been fully settled by paying the entire amount of Principle and Interest in one lump sum.

5. The Institute has disbursed the 12 months salary to the employees during the financial year. For Accounting purposes and Income Tax, the two salary i.e. Salary for the month of March, 2022 and April, 2022 was released in the month of April, 2022, as being done in Government Organization.
6. During the Financial Year the Institute has refund the Interest earned on GIA upto 31.03.2021 amounting to ₹ 8,03,38,887.00 into the Consolidated Fund of India.

#### G. COMPLIANCE OF SAR OBSERVATIONS FOR FINANCIAL YEAR 2020-21.

1. The CAG Audit through its Management letter No. CEA-I/ AMG-II/SAR-09/ AIIMSR/ 2019-20/ D/181 dated 03.02.2021 had advised the Institute to treat the unclaimed amount which has been overdue for more than 3 complete Accounting Years as Income of the Institute with the approval of the Board, as per the Rule 189 of the Receipts & Payments Rules. In compliance to the same, the Institute has transferred following unclaimed amount which have been overdue for more than 3 complete Accounting Years, as of 31.03.2021 under **Schedule-18 [Other Income]**:-

S.No.	Particulars	Amount
1	Earnest Money Deposits	11,49,581.00
2	Security Deposits Vendor's	5,93,113.00
3	Unclaimed Creditors	70,09,445.00
4	Security Deposits Employee	3,35,213.00
<b>Total</b>		<b>90,87,352.00</b>

2. On observation made in SAR-2020-21, A.1.1.3, it is to be mentioned that the extramural/special funds are not part of GIAs received from Government of India for AIIMS Raipur. However, separate ledger is maintained for these funds in the accounting system of AIIMS, Raipur.
3. On observation made in SAR-2020-21, A.2.1.1, the observation on land allotted on lease to AIIMS Raipur by Chhattisgarh State Government was noted and the nominal value of land allotted by Government of Chhattisgarh on lease is taken in Schedule-8 in the Annual Accounts for FY 2021-22.
4. On observation made in SAR-2020-21, C.1 about Provision of gratuity and other retirement benefits it is mentioned that "Being the fully funded Central Autonomous Body and Institute of National Importance, under the Ministry of Health & Family Welfare, Government of India, no provision for retirement benefit for gratuity etc. are made. The Payment & Accounting for these liabilities will be done on cash basis from GIA (Salary) as and when this liability will arise. Further the Institute has opened an interest bearing Pension & Fund Account in State Bank of India, Raipur for those faculties whose Prorata Pensionary benefits have been received from their previous employers.



Further on applicability of extension of benefits of "Retirement Gratuity and Death Gratuity" to the employee of AIIMS Raipur covered under New Pension Scheme, the issue has been referred to the PMSSY Division, Ministry of Health & Family Welfare for clarification and guidance.

5. The matters brought to the notice of AIIMS Raipur through Management letter had been rectified in the Annual Accounts of 2021-22.



**B.K. AGRAWAL**  
**FINANCIAL ADVISOR**



**Prof. (Dr.) NITIN M. NAGARKAR**  
**DIRECTOR & CEO**







आरोग्यम् सुख सम्पदा



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