



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

## 2020-21



### ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR

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



आरोग्यम् सुख सम्पदा



# ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR

AIIMS CAMPUS, TATIBANDH, RAIPUR, CHHATTISGARH -492099

M.R.P. Rs. 1500/-

[www.aiimsraipur.edu.in](http://www.aiimsraipur.edu.in)

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

Prof. (Dr.) Nitin M. Nagarkar, Director and CEO, AIIMS Raipur received a "Certificate of Appreciation" from the Government of Chhattisgarh on the occasion of Republic Day-2021 for overall commendable work in the prevention of Covid-19 infection: the global pandemic.





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**9<sup>th</sup>**  
**ANNUAL  
REPORT**





आरोग्यम् सुख सम्पदा

**JOINTLY EDITED BY**

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

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Dean (Academics) & H.O.D., Pharmacology

**Shri Anshuman Gupta**  
Deputy Director (Admin.)

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आरोग्यम् सुख सम्पदा

## ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR

### INTRODUCTION

AIIMS Raipur is one of the new apex healthcare institutes established by the Ministry of Health and Family Welfare, Government of India under the Pradhan Mantri Swasthya Suraksha Yojna (PMSSY) on the pattern of AIIMS, New Delhi. The Institute has been established with the aim of correcting regional imbalances in quality tertiary level healthcare in the region and attaining self sufficiency in graduate and postgraduate medical education and training in this hitherto under-served area of the country.

### MISSION STATEMENT

To establish a centre of excellence in medical education, training, health care and research imbued with scientific culture, compassion for the sick and commitment to serve the under-served. A mission to bestow world class services to the people of Chhattisgarh and surrounding areas in particular and the nation in the broader aspect.

The logo of AIIMS Raipur is amalgamated with the Sanskrit words “आरोग्यम् सुख सम्पदा” which translates into “Health, Happiness and Prosperity” thus linking health with happiness and prosperity.

### MEDICAL AND NURSING COLLEGES

All the pre-clinical and para-clinical departments of the Medical College including Anatomy, Physiology, Biochemistry, Pathology, Microbiology, Pharmacology, Forensic Medicine & Toxicology and Community & Family Medicine are functional and located in their respective earmarked spaces. The College of Nursing has started functioning in its own building near Medical College since November, 2015.



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## AIIMS RAIPUR AT A GLANCE

2020-21

Data as on March 2021

### Academic Details

Teaching Departments	32	Non-faculty staff	2392
Faculty members	155	Medical Students Intake	125
Faculty members (Nursing)	02	Nursing Students Intake	75

### HOSPITAL SERVICES

(from 01.04.2020 to 31.03.2021)

Hospital/ Centre	Outpatients (including casualty)	Admissions	Surgery (Operations/ procedures)	Beds General
Main Hospital	2,67,230	22,863	Major 4,190 Minor 4,793	900

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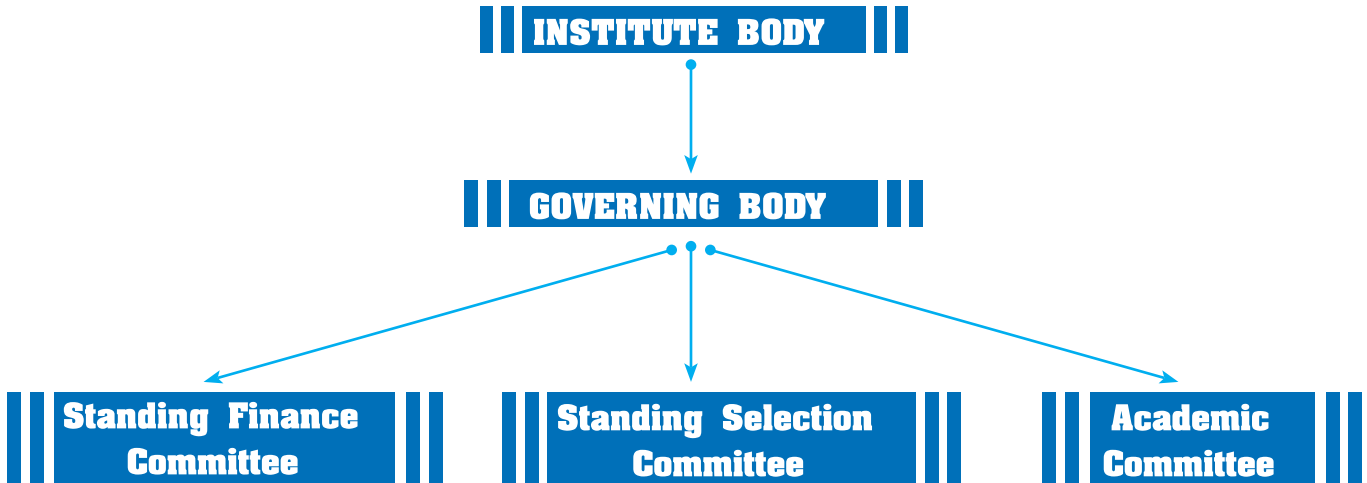
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## ORGANISATIONAL STRUCTURE



## DIRECTOR'S REVIEW



The year 2020-21 was full of challenges and testimonies for every healthcare institution, including ours due to COVID-19 pandemic. Dedicated doctors, nursing staff, post-graduates, interns and other hospital staff of AIIMS Raipur worked as a team to offer best healthcare services to COVID patients and saved many lives. While presenting the 9<sup>th</sup> Annual Report and the Audited Statement of Accounts of AIIMS Raipur for the Financial Year 2020-21, I am immensely satisfied that the institute played a pivotal role in COVID-19 management in Chhattisgarh State.

The institute has made significant academic progress and has grown into an 'Academic Tree,' offering graduation, post-graduation, super specialisation and specialised training courses. Since inception of this institute in 2012, nine batches of MBBS and eight batches of B.Sc. (Hons.) Nursing have been admitted. From the Academic Year 2020 onwards, number of seats in MBBS and B.Sc. (Hons.) Nursing Course were increased from 100 to 125 and 60 to 75, respectively, after implementation of EWS quota.

Since the start of postgraduate courses in July 2017, the annual intake was increased gradually with enhancement of faculty strength, patient care and diagnostic services. After receiving approval from the institute's Academic Committee, the institute started

new PG courses such as MD Emergency Medicine, MD PMR, and MDS in Paediatric Dentistry in 2020-21, taking its total annual intake of MD/MS/MDS seats to 141. The institute is providing 14 super speciality courses like DM/MCh with 29 seats per annum. Similarly, the institute has also opened academic avenue for post-PG students to pursue specialized training through seven Post-doctoral Certificate Courses (PDCC) in various departments.

Four batches of MBBS (2012, 2013, 2014, 2015) have completed their internship and four batches of B. Sc. (Hons.) Nursing (2013, 2014, 2015, 2016) have completed their course. It is worth mentioning here that the graduates of AIIMS Raipur are pursuing their post-graduation in reputed medical institutions of India. Few of our graduates are pursuing their further studies in foreign universities. The institute offers 11-month contractual appointments to our B.Sc. (Hons.) Nursing students. The MBBS graduates of AIIMS Raipur are being preferred for the job of non-academic Junior Residents under Central Residency Scheme of Government of India.

Two batches of MD/MS/MDS (July 2017 and Jan 2018) and one batch of M.Sc. Nursing have completed their course and all the students were declared successful. Similarly, two batches of PDCC

students have finished their programme after attaining specialised training. It is notable to mention that despite the COVID – 19 pandemic, the institute completed professional examinations for final year batches of various courses on time and was able to begin internship for the MBBS 2016 batch on January 1, 2021.

The faculty and staff of all the departments of the institute worked cohesively when the our entire country was grappling with COVID–19 pandemic. Well-developed clinical and diagnostic facilities, adequate bed strength, critical care facilities, well-defined infrastructure and most importantly doctors and nursing staff with specialized training enabled AIIMS Raipur take a leadership role in the state. With the coordination and support from Chhattisgarh Government, the institute had prepared a road-map to tackle this public health emergency.

At the time of outbreak, only AIIMS Raipur had a functional State Level Virus Research and Diagnostic Laboratory (VRDL) and accordingly all RTPCR tests were conducted in our lab. Subsequently, AIIMS Raipur under the able guidance of ICMR has taken the lead in guiding the State Governments to start their own testing laboratories and training their manpower in the States of Chhattisgarh and Jharkhand. Virology Laboratory work at our institute was supported with human resource provided by the State Government and as a result, in 2020-21, the institute could perform 2,16,506 RT-PCR tests. A total of 500 beds were made available by the institute for COVID patients. The institute provided 24 X 7 emergency services during COVID- 19 pandemic. On an average, daily 15 faculty members from Pre-, Para- and Clinical departments, 25 SRs and JRs, 10 Interns and 40 Nursing Officers were posted on rotation basis for screening and management of COVID patients. This determination and team work resulted in successful treatment and discharge of 7089 COVID-19 positive patients. Continuous training of healthcare professionals on infection prevention and control aspects and on COVID– 19 management by Hospital Infection Control Committee and COVID– 19 Management committee,

respectively, facilitated the patient care services. The institute was well-prepared with its dedicated vaccination team for the Pan-India roll out of COVID – 19 vaccination on January 16, 2021. Till 31<sup>st</sup> March 2021, a total of 8184 doses of COVID vaccine were administered.

The hospital catered services to non-COVID patients and the number of OPD and IPD patients treated were 2,67,230 and 22863 respectively. The institute also provided Telemedicine services during the lockdown period and continued to do so afterward, extending Teleconsultation benefits to 24,417 patients. A total of 9971 major and minor surgeries were performed which include 988 emergency surgeries. Similarly, 1421 deliveries were performed which include 168 COVID positive deliveries. Patient management, whether COVID or non-COVID, would not have been possible without the backend services provided by diagnostic departments. A total of 13,45,503 investigations were performed by departments of Biochemistry, Microbiology, Pathology and Radiodiagnosis. Ayushman Bharat- Pradhanmantri Jan Aarogya Yojana, a flagship scheme of Government of India, has already been implemented in our hospital, with a total of 9945 patients benefiting during the current financial year. The ARPAN scheme offers benefits to poor patients, and the institute has also established the Rogi Kalyan Samiti.

In addition, this year witnessed commencement of upgradation of services such as start of well-equipped, state-of-art BSL-III Mycobacteriology Laboratory, installation of Hospital Management and Information System, enhancement of dialysis beds, commencement of GI endoscopy and colonoscopy, upgradation of Central Sterile Supply Department (CSSD) facilities, installation of Electronic Motorized Compactor for Medical Records in Medical Record section, authorization to issue birth and death certificates and digitalization of hospital services like registration, billing and medical records.

Research is an important mandate of institutes of national importance. The institute was

part of many collaborative projects on COVID – 19 and one of the trial sites for few investigational drugs for COVID – 19. Apart from that, during this year, 51 extramural, 24 intramural, 11 ICMR-STs and 297 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 antimicrobial resistance.

During the pandemic, faculty from our institute provided academic perspectives on various aspects of COVID – 19 at the state, national, and international levels via webinars and online conferences: a webinar with SAARC countries is prominent to mention. Academic activities were never compromised during pandemic time. The faculty members continued to deliver theory lectures through online platform. The practical and clinical teachings were conducted in small groups with COVID appropriate behaviour.

The institute's services provided during the pandemic drew praise and appreciation from all over

the state and country and emerged as one of the prime medical institutions in Central India. I put on record the words of appreciation for my team who are true owners of love and affection showered on us. The institute followed all the COVID related guidelines issued by Ministry of Health and Family Welfare, Government of India and Chhattisgarh State Government. The massive task of combating this global pandemic was not easy; however, continued support from the Ministry of Health and Family Welfare, Government of India and Chhattisgarh State Government and the general public on every aspect of COVID-19 management aided the institute to offer best services. I would like to express my heartfelt gratitude and seek continued support in the future.

We, AIIMS Raipur, as a team, are committed to achieve the epitome of academics, bring out need-based research and serve the people of Chhattisgarh and our country with best patient care.

**Jai Hind!**

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

Director and CEO

All India Institute of Medical Sciences  
Raipur, Chhattisgarh



## INSTITUTE BODY (IB)

No.	Members	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
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 Raipur, Chhattisgarh	Member

No.	Members	Designation
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, Chhattisgarh	Member
14.	<b>Dr. Shipra Sharma</b> Professor Department of Surgery Pt. Jawahar Lal Nehru Memorial Medical College, Raipur, Chhattisgarh	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 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)

No.	Members	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 Raipur, Chhattisgarh	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 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 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.	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 All India Institute of Medical Sciences Raipur, Chhattisgarh	Member Secretary

## ACADEMIC COMMITTEE

S. No.	Members	Designation
1.	<b>Dr. Surjit Singh</b> Professor & HOD, Department of Paediatrics PGIMER, Chandigarh	Chairman
2.	<b>Dr. Shipra Sharma</b> Professor, Department of Surgery Pt. Jawahar Lal Nehru Memorial Medical College Raipur, Chhattisgarh	Vice- Chairperson
3.	<b>Ms. Saroj Pandey</b> Hon'ble Member of Parliament Rajya Sabha	Member
4.	<b>Prof. Gangadhar</b> Dean and Principal BTL group of Institutions	Member
5.	<b>Dr. Narayan Purushottam Dakshinkar</b> Vice - Chancellor Chhattisgarh Kamdhenu Vishwavidyalaya Raipur, Chhattisgarh	Member
6.	<b>Prof. Bharat Bhasker</b> Director, Indian Institute of Management Atal Nagar, Raipur, Chhattisgarh	Member
7.	<b>Prof. (Dr.) Nitin M. Nagarkar</b> Director 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  
Additional 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 and the Academic Committee of the Institute has approved to increase the seats from 127 to 141 seats per annum in its 6<sup>th</sup> meeting. M.Sc. Nursing

(Psychiatric) was started from July 2018 onwards with annual intake of 2 seats which was increased to 04 seats per annum from July 2019. Till January 2021 session, a total of 252 MD/MS/MDS, 16 DM/MCh students are studying in different postgraduate courses and 7 students in M.Sc. Nursing (Psychiatric) course. In addition, Ph.D., PDCC, Master of Public Health, Paramedical courses, certificate course and super specialty courses are being run in the Institute.

The Academic Committee also approved the following courses in its 6<sup>th</sup> meeting:

Department	Course	Annual Intake
Trauma & Emergency	MD Emergency Medicine	8
Physical Medicine and Rehabilitation	MD Physical Medicine and Rehabilitation	2
Dentistry	MDS Paediatric and Preventive Dentistry	2

### Increase in number of PG Seat

Department	Course	Previous intake	Annual Intake with enhancement
Community & Family Medicine	MD Community & Family Medicine	6	8

### Super Speciality Courses

Course/ Duration- 03 Years	Annual Intake
MCh Joint replacement and reconstruction	2
DM Clinical Infectious Diseases	2

Course	Department	Subject	Duration of Course	Annual Intake
Post Doctoral Certificate Courses	Cardiology	Cardiac Critical Care Medicine	1 year	2

## 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	—	—	Posted for one year compulsory rotational internship from January 2021.
2017	100	100	3 <sup>rd</sup> Professional	December 2021	—
2018	100	100	3 <sup>rd</sup> Professional	December 2022	—
2019	100	100	2 <sup>nd</sup> Professional	February 2022	—
2020	125	125	1 <sup>st</sup> Professional	December 2021	—

The students of 2012, 2013, 2014 and 2015 batches are pursuing postgraduate courses at various esteemed central and state medical colleges.

### 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	—	July 2021	—
2018	60	60	3 <sup>rd</sup> Year	September 2021	—
2019	60	60	2 <sup>nd</sup> Year	Sep/Oct. 2021	—
2020	75	75	1 <sup>st</sup> Year	November 2021	—

The Four batches of B.Sc. (Hons) Nursing course (admitted in 2013, 2014, 2015 and 2016) 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	3 <sup>rd</sup> year	June/July - 2021
Jan – 2019		42	2 <sup>nd</sup> year	Dec-2021/Jan - 2022
July – 2019	92	36	2 <sup>nd</sup> year	June/July - 2022
Jan - 2020		56	1 <sup>st</sup> year	Dec- 2022/Jan – 2023
July – 2020	127	44	1 <sup>st</sup> year	June/July - 2023
Jan - 2021		75	1 <sup>st</sup> year	Dec-2023/Jan-2024

## M.Sc. Nursing (Psychiatric)

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

## Other Academic Courses

S. No.	Course	No. of students pursuing the course
1	DM/MCh	16
2	Post Doctoral Certificate Courses (PDCC)	15
3	Ph.D.	05
4	Master of Public Health (MPH)	12
5	Paramedical Courses	46
6	Pre-Hospital Trauma Technician (PTT)	12

## Performance of students in examination

2020-21			
Name of Exam	No. of Students Appeared	No. of Students passed	Percentage
B.Sc. (Hons) Nursing 1 <sup>st</sup> Year	58	57	98%
B.Sc. (Hons) Nursing 2 <sup>nd</sup> Year	60	59	98%
B.Sc. (Hons) Nursing 3 <sup>rd</sup> Year	60	60	100%
B.Sc. (Hons) Nursing 4 <sup>th</sup> Year	57	57	100%
M.Sc. Nursing-Psychiatric Nursing 1 <sup>st</sup> year	03	03	100%
M.Sc. Nursing-Psychiatric Nursing 2 <sup>nd</sup> year	01	01	100%
MBBS 1st Prof	100	96	96%
MBBS 2nd Prof	108	92	85%
MBBS 3 <sup>rd</sup> Prof	101	91	90%
MD/MS (July 2017 batch)	07	07	100%
MD/MS (Jan 2018 batch)	17	17	100%



## ADMINISTRATION

### Deputy Director (Administration)

1. Shri Neeresh Sharma (Till 02.06.2020)
2. Shri P.K.Ray (From 03.06.2020 to 18.10.2020)
3. Shri Anshuman Gupta- 19.10.2020 till date.

### Senior Administrative Officer

1. Shri Parijat Diwan (Till 28.12.2020)
2. Shri V. Sitaramu(Addl. Charge)- 28.12.2020 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 31.03.2021 is mentioned below:

S. No.	Category/Group	Sanctioned Strength	In-position
1.	Faculty members	305	155
2.	'A'	930	512
3.	'B'	2228	1157
4.	'C'	626	723
	Total	4089	2547

### FOR THE FY-YEAR 2020-21

#### PG PORTAL:

Letters Received	Letters Disposed Of
62	62

#### RTI CELL:

Letters Received	Letters Disposed Of
858	858

## Department of Public Relations

### HIGHLIGHTS

The department of Public Relations, AIIMS Raipur started its function in September 2019. The department has a very important role of creating trust and improving the brand value of AIIMS among the common people. Media related activities including updating social media (Facebook, Twitter Handle, Website and all Social Media) regularly. The department has been successfully publishing quarterly e-magazine Arogyam of AIIMS, Raipur which

provide information about latest news and 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 proper arrangements for the VIP visitors. The Department is releasing different Advertisement, working as nodal office for monthly progress reports to the MoHFW, Grievance and vehicle management.

### Research Paper Published

**Shiv Shankar Sharma**

S. No.	Title	Journal	Date
1.	Information Sharing through Twitter by Public Health Care Institution during COVID-19 Pandemic : A Case Study of AIIMS, Raipur	Indian Journal of Community Health	Jan-March, 2021

### Recruitment Cell

Recruitment Cell ,AIIMS Raipur, is entrusted with the duties of carrying out recruitment process of all Faculty , Non-faculty, Technical, Non-Technical etc. post of Group 'A' Group 'B' and Group 'C' for smooth functioning of Hospital services , Patient care , medical education and research. All the efforts are made to attract best talent across the country. The recruitment process at AIIMS Raipur is carried out in accordance with the rules and instructions of GoI. It strictly adheres to the instruction laid down by the DoPT and the MoHFW regard reservation and relaxation to various categories i.e SC, ST, OBC, PwBD, EWS, EXSM etc.

The details of recruitment process undertaken by AIIMS Raipur in the year 2021 are as follows:

S. No.	Post Name	Number of Post Published During FY -2021
1.	Faculty Gr (A)	50
2.	Non Faculty Gr (A) & Gr (B)	34
3.	Senior Resident Gr(A)	255
4.	Junior Resident Gr (A)	145
5.	Staff Nurse Gr-II	246
	<b>Grand Total</b>	<b>730</b>

## RAJBHASHA CELL

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

Director, AIIMS Raipur  
Chairman  
Departmental Official Language Implementation Committee

### **Deputy-Director (Administration)**

Mr. Anshuman Gupta

### **Sr. Hindi Officer and Public Relations Officer**

Mr. Shiv Shankar Sharma

### **Junior Hindi Translator**

Mr. Sharukh Khan  
Mr. Madhuragi Shrivastava  
Mr. Kishan Kr Das

### **Members**

All HoDs and Officers  
AIIMS Raipur

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

1. Quarterly meeting of Departmental Official Language Implementation Committee was organized on 18<sup>th</sup> June, 30<sup>th</sup> September, 30<sup>th</sup> December, 2020 and 15<sup>th</sup> March, 2021. 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.
2. Hindi workshops were organized by Rajbhasha Cell on 22 July, 14 September, 2020 and 15-20<sup>th</sup> March, 2021. A very interesting workshop was organized on the topic 'Official Procedures and Use of Hindi in AIIMS' on 22 July, 2020. Another workshop was organized on the occasion of Hindi Diwas (14<sup>th</sup> September, 2020) on the topic 'Hindi in Technical Education'. In this workshop, chief guest Prof. (Dr.) Keshri Lal Verma, Vice-chancellor, Pt. Ravishankar Shukla University was felicitated for his contribution in promoting use of Hindi in Technical Education. Hindi Typing Workshop on Computer was organized between 15-20<sup>th</sup> March in order to promote Hindi among employees of AIIMS, Raipur. In this workshop, 17 participants were trained in hindi typing .
3. AIIMS Raipur is an important member of Departmental Official Language Implementation Committee. Half-yearly meeting of the committee was organized in the form of webinar on 22 October, 2020 under the chairmanship of Shri Shyam Sundar Gupta, Divisional Rail Manager, South-East Central Railway, Raipur. Prof.(Dr.) Nitin M. Nagarkar Director, AIIMS Raipur, Shri Anshuman Gupta, Deputy-Director(Admin), Shri Shiv Shankar Sharma, Sr.Hindi Officer and Public Relations Officer, Shri Sharukh Khan, Shri Madhuragi Shrivastava and Shri Kishan Kr. Das, Junior Hindi Translator participated in the webinar.

4. Hindi-Pakhwara was organized in AIIMS, Raipur from 14-28 September, 2020. Different competitions like Medical Terminology, Administrative Terminology, Dictation, Essay, Extempore, Self-Written Poetry Recitation, Debate, Quiz were organized. In these competitions, 297 employees participated enthusiastically. On 30<sup>th</sup> September, 66 winners were awarded by the guests.
5. Annual Report of financial year 2019-20 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, Covid-19 related information sheets 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. Hindi Magazine 'Spandan' was made half-yearly whose fourth edition (April- September, 2020) and fifth edition ( October-March, 2021) was prepared as E-Magazine and circulated through online mode.
2. In order to promote official work in Hindi, AIIMS, Raipur awarded 10 Rajbhasha Protsahan Puruskar on 30<sup>th</sup> September, 2020 to officers and employees who have used Hindi in their official working.
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. Employees of AIIMS, Raipur are being given regular typing training in Hindi.
5. Shri Shiv Shankar Sharma, Sr. Hindi Officer, AIIMS, Raipur participated in the third review meeting of Department of Official Language, Ministry of Health and Family Welfare, held on 26<sup>th</sup> March, 2021 in New Delhi.

## Security Department

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 WING

### FINANCIAL ADVISOR SHRI B. K. AGRAWAL, ICAS

#### FINANCE AND CHIEF ACCOUNTS OFFICER

Shri Vinod. G

#### ACCOUNTS OFFICERS

1. Shri B.N.Verma
2. Shri J. Sajit Nair
3. Shri Vishal Kumar
4. 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 of 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.

## CIVIL WING

### Executive Engineer (Civil)

Er. Manoj Rastogi

### 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 2021)

Status of construction in AIIMS Raipur including Arbitration / Court case (As on 31.03.2021) 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	30.04.2021
	Pkg - II Hospital Complex	M/s B.L. Kashyap & Sons Ltd.	262.40	100	316.16	30.04.2021
	Pkg - III Electrical Services	M/s Ahluwalia (Contractcs) India Ltd.	35.86	100	36.59	30.04.2021
	Pkg - IV Estate Services	M/s B.L. Kashyap & Sons Ltd.	63.33	100	61.86	30.04.2021

#### Note:

1. **Virtual Completion Certificates to Package I, II, III & IV have been issued by AIIMS, Raipur.**
2. Actual payment till date includes the Advance payment (75% or less) of RA Bills and 50% of GST RA Bills released to packages due to delay in processing/checking of bills by M/s HSCC (India Ltd.) to give some financial relief to the packages in the interest of the work and to complete the project as soon as possible.

**PACKAGE – I**  
**MEDICAL COLLEGE & HOSTEL COMPLEX AT AIIMS RAIPUR**

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	:	30.04.2021
Physical Progress	:	100 %
Fund released so far	:	128.30 Crores

**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/Dinning	G+8	7920.00
6.	Girls Hostel	G+7	3161.00
7.	PG & Interns Hostel incl Recreation Hall	G+7	8392.00
8.	Boys Hostel including kitchen/Dinning	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
<b>Total</b>			<b>70772.00</b>

**PACKAGE – II**  
**HOSPITAL COMPLEX AT AIIMS RAIPUR**

Contractor	:	M/s B L Kashyap & Sons Ltd.
Contract Amount	:	Rs. 262.40 Crores
Date of Commencement	:	11 <sup>th</sup> Sep 201
Date of Completion	:	10 <sup>th</sup> Sep 2012
Expected Date of Completion	:	30.04.2021
Physical Progress	:	100 %
Fund released so far	:	316.16 Crores

## Main Hospital Building



**Trauma Centre**



**PMR & AYUSH**

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### BRIEF SCOPE OF WORK

S.NO	NAME OF BUILDING	PATTERN	TOTAL FLOOR (SQM)
1.	Hospital Building	LG+G+4	86970.00
2.	Trauma 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 Maintenance	G	432.00
11.	Main Receiving Station & Sub Stn	G	1353.00
12.	LPG Store	G	36.00
13.	Incinerator	G	113.00
	<b>Total</b>		<b>107109.00</b>

### PACKAGE – III ELECTRICAL SERVICES AT AIIMS RAIPUR

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
Expected Date of Completion	:	30.04.2021
Physical Progress	:	100 %
Fund released so far	:	36.59 Crores



**PACKAGE – IV**  
**ESTATE SERVICES AT AIIMS RAIPUR**

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	:	30.04.2021
Physical Progress	:	100 %
Fund released so far	:	61.86 Crores

**STATUS OF CIVIL (Non DPR Works) as 31/03/2021**  
**including the work assigned to CPWD**

**Academic Block**

Month	Cumulative Target (%)	Cumulative Physical Progress (%)	Cumulative Financial Progress (%)	Current Month Expenditure (Cr.)	Cumulative Target (%)
31.03.2021	100	27.10	(36.50%)	Not Available	pending
			(Note: Monthly Progress is being reported jointly for both the blocks by CPWD)		

**Administrative Block**

Month	Cumulative Target (%)	Cumulative Physical Progress (%)	Cumulative Financial Progress (%)	Current Month Expenditure (Cr.)	Cumulative Target (%)
31.03.2021	100	27.10	(36.50%)	Not Available	pending
			(Note: Progress being reported jointly for both the blocks by CPWD)		

## Center of Excellence

Month	Cumulative Target (%)	Cumulative Physical Progress (%)	Cumulative Financial Progress (%)	Current Month Expenditure (Cr.)	Task Progress	
					Task Status (select any one)	Remark
31.03.2021	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.

## Construction of School of Public Health in Ground Floor of Medical College (Civil, Electrical, Fire Fighting and HVAC Works)

Month	Cumulative Target (%)	Cumulative Physical Progress (%)	Cumulative Financial Progress (%)	Current Month Expenditure (Cr.)	Task Progress	
					Task Status (select any one)	Remark
31.03.2021	100	100	100	NIL	Completed	

## Hospital and Department of Central Medical Records

### Deputy Medical Superintendents

Dr. Nitin Kumar Borkar

Dr. Tridip Dutta Baruah

Dr. Ramesh Chandrakar

### Department In-Charge

Shri. Kallelshwara 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-2021, 2,67,230 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. The total number of beds and operation theatres planned for the hospital is 960. Total of 900 beds are functional as of now. The beds are used by the patients of all OPD departments running at AIIMS Raipur. Four Modular operation Theatres and one 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.

Since establishment of the Department of Central Medical Records is extending its services to the Institute, patients and public.

Key Role Services of the Department of Central Medical Records:-

1. Electronic Medical Record (EMR)/ Electronic Health Record (EHR).
2. Digitalization of Medical Records.
3. Installed state of the art Electronic Motorized Compactor for Medical Records.
4. Authorized to issue Birth and Death Certificates.
5. Maintained all records/Medico-Legal Cases as per norms.
6. Medical Audit and Statistical Studies.
7. Conducted CMEs for awareness of Medical Records.
8. Online facilitation for Registration, Billing etc.
9. Facilitate Insurance Claims.

The Department has extended following services/facilities in the Financial Year 2020-21:

1. Facilitated registration, billing etc. to 2,67,147 patients in OPD during pandemic.
2. Facilitated admission of 22,863 patients in IPD and their record keeping during pandemic.
3. Facilitated admission of 8,786 patient's surgeries (Major & Minor) and their record keeping during pandemic.
4. Facilitated admission of 11,559 COVID 19 patients, 1421 deliveries and 168 COVID 19 positive deliveries during pandemic and their record keeping.
5. Around 60,000 inpatient records digitalized.
6. 1352 Birth Certificate issued.
7. 1980 Death Certificate issued through physical and online.
8. Developed various formats in HMIS software.
9. Facilitated 476 COVID 19 Death summary to deceased family.



**Hospital Statistics from 01-04-2020 to 31-03-2021**  
(Data during the period of COVID19 pandemic)

S. No.	Particular	Numbers
1	Out Patients attendance	2,67,230
2	New Cases	1,60,795
3	Old Cases	82,018
4	Telemedicine	24,417
5	Daily Average No. of Out Pt. attendance	896
6	Out Pt. attendance in Casualties	31,134
7	Daily Average No. of Out Pt. attendance in casualties	85
8	Admissions	22,863
9	Discharges	22,301
10	Daily Average No. of occupied In Pt. attendance	458
11	Daily Average Bed Occupancy Rate	66%
12	Deliveries conducted	1,102
13	No. of Live Births	1,173
14	No. of Still Births	27
15	Deliveries FTND	670
16	Deliveries LSCS	432
17	X-Ray(Including OPD & IPD)	69,179
18	USG(Including OPD & IPD)	7,871
19	CT Scan(Including OPD & IPD)	9,316
20	MRI (Including OPD & IPD)	3,370
21	Investigations(Including Biochemistry, Microbiology, Pathology and Radiology OPD & IPD)	13,45,503
22	Colour Doppler	399
23	Angiography/Angioplasty	203 / 33
24	Investigations in Biochemistry(Including OPD & IPD)	9,39,415
25	Investigations in Microbiology(Including OPD & IPD)	1,54,726

S. No.	Particular	Numbers	
26	Investigations in Pathology(Including OPD & IPD)	1,57,882	
27	Investigations in Radiology (Including OPD & IPD)	93,408	
28	Operations performed	8,786	
29	Major Surgeries	4,190	
30	Minor Surgeries	4,793	
31	Death	1,980	
32	Death below 48 Hours	663	
33	Death above 48 Hours	1,317	
34	Gross Death Rate	8.87%	
35	Net Death Rate	2.97%	
36	Forensic Medicine and Toxicology	Medico Legal Cases Handled	1,554
		Medico Legal Autopsies Performed	273
		Embalming of Autopsied Bodies	5
		COVID Body Handed Over	742
37	Brought dead	204	
38	Insurance claims	96	
39	Files Issued Re-Admission Patients and Thesis purpose	1,839	
40	RNTCP Patients	364	
41	ICTC Patients	5,258	
42	ORS (Online Registration System )	91,278	
43	Audiometry	Audiology	957
		Speech language	165
44	ECHO	2,996	
45	PMR(Physiotherapy )	6,126	
46	Ayushman Bharat Patient	9,945	

**Bed Occupancy**  
(Data during the period of COVID19 pandemic)

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
<b>April-20</b>	30	800	1,052	6,327	26.36	211	35
<b>May-20</b>	31	800	1,363	9,819	39.59	317	44
<b>June-20</b>	30	800	1,312	10,951	45.63	365	44
<b>July-20</b>	31	800	1,744	12,673	51.1	409	56
<b>Aug-20</b>	31	800	1,942	15,811	63.75	510	63
<b>Sept-20</b>	30	800	1,949	16,870	70.29	562	65
<b>Oct-20</b>	31	800	1,894	13,941	56.21	450	61
<b>Nov-20</b>	30	900	1,963	14,948	55.36	498	65
<b>Dec-20</b>	31	900	2,364	16,450	58.96	531	76
<b>Jan-21</b>	31	900	2,316	16,624	59.58	536	75
<b>Feb-21</b>	28	900	2,092	14,105	55.97	504	75
<b>Mar-21</b>	31	900	2,872	18,645	66.83	601	93

## COVID-19 RESPONSE

The COVID-19 pandemic has had a major impact on the capacity of health systems to continue the delivery of essential health services. While health systems around the world are being challenged by increasing demand for care of COVID-19 patients, it is critical to maintain preventive and curative services, especially for the most vulnerable populations, such as children, older persons, people living with chronic conditions, minorities and people living with disabilities. In the face of the daunting health crisis, AIIMS Raipur demonstrated its commitment to the people by working to alleviate suffering and improve health and well-being for all through service, discovery, scholarship, and leadership. AIIMS Raipur initiated work to provide quality care to those affected by COVID-19 while simultaneously launching efforts to understand the nature of SARS-CoV-2 and develop containment and management strategies.

AIIMS Raipur faculty with extensive experience in combating infectious disease outbreaks, identified the need for broader testing capabilities, more personal protective equipment for health care providers and greater hospital capacity. AIIMS Raipur also set up a task force to develop a management protocol for COVID-19 and constituted several committees to respond to various challenges posed by the pandemic. The institute also partnered with other institutions to help guide containment efforts through screening, rapid testing and prevention. The institute produced COVID-19 informational resources for the public in multiple languages.

In a very short span of time, AIIMS, Raipur faculty members successfully helped design, staff and lead the COVID clinical response in India by converting the AYUSH and C block of main Hospital building 500 beds (more than 100 Intensive Care/High Dependency Unit beds) into a dedicated COVID-19 hospital. The team consisted of faculty members, residents, interns, nursing and all other support staff.

The education programs at the institute were rapidly calibrated to provide the best learning experiences possible under the circumstances while protecting the health of the entire community. Faculty members, students and staff moved swiftly to remote learning and off-site work using new pedagogical approaches.

AIIMS Raipur was also instrumental in capacity building for handling COVID 19 in the state by ensuring training of health care staff including doctors, nurses, paramedics and Laboratory technicians.

AIIMS Raipur also provided exemplary leadership in the region and country in controlling the pandemic by conducting webinars for SAARC countries for handling and managing COVID19; it also helped in developing protocols and developing guidelines for the state to handle the pandemic effectively. Faculties of AIIMS Raipur were members of various taskforces in the country for developing guidance documents for handling COVID 19 effectively.

Patient movement and admission in the state was effectively controlled by AIIMS in coordination with state administration in an exemplary manner that there was no shortage of beds or oxygen in the state.

AIIMS Raipur VRDL lab is acting as the lifeline for the state and central India conducting more than 2,16,506 tests of which 22136 were tested positive. AIIMS performed a key role in helping establish a network of 17 laboratories capable of RTPCR testing in Chhattisgarh and Jharkhand. In Chhattisgarh, 12 laboratories comprising of 5 government medical colleges, 3 private medical college and 4 stand-alone laboratories or in corporate hospitals. In Jharkhand, 5 labs were established; four in government medical colleges and one in district (sadar) hospital.



AIIMS Raipur is also involved in Inter laboratory Quality Control program for testing quality of RT PCR tests being performed at the newly established labs. In the F.Y 2020-2021, 12 labs were enrolled in the ILQC program. Labs showing less than 90% concordance were contacted, gap analysis and repeat hand holding was done. Repeat ILQC was done for such Labs.

During this period 7495 patients with COVID 19 were admitted and 7089 patients were discharged. More

than 350 children suffering from COVID and its complications were also treated successfully.

A total of 115 research projects were conducted on COVID during this tenure. Of these, 32 projects were funded by various national and international extramural agencies.

AIIMS Raipur, with the support and guidance of MoHFW, (GoI), ICMR and State Govt. will continue to provide best services during this pandemic.



Airforce Helicopter showering petals on COVID-19 warriors of AIIMS, Raipur

## Vaccination Area



Hon'ble Governor of Chhattisgarh Ms. Anusuiya Uikey taking first jab at vaccination centre in AIIMS, Raipur



Prof. (Dr.) Nitin M. Nagarkar, Director, AIIMS Raipur getting the first dose of COVID-19 vaccine

## College of Nursing

### Assistant Professors

Dr. Binu Mathew

Mrs. J. Jeayareka

### Nursing Tutors

Mrs. Chetna Sahu

Mrs. Chandramani

Mr. Rajendar Singh

Mrs. SumanShinde

Mrs. Chitrekha 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

Ms. Kankana Chakraborty

Mr. JayavelDr. Hitesh Choudhary

Mr. Abdul Munaf Mujawr

### HIGHLIGHTS

The Nursing College of the All India Institute of Medical Sciences Raipur has been established in the Year 2013 under the **Pradhan Mantri Swastya Surakha Yojana (PMSSY)**. The PMSSY was launched with the primary objective of correcting the imbalances in availability of affordable and reliable tertiary level healthcare in the country in general and to provide facilities for quality medical and nursing education in the underserved states.

The college is working towards creation and provision of socially relevant and highly qualified professionals in a wide range of inter disciplinary areas of nursing sciences by providing education to a large number of students from all section of society in the country. Our aim is to provide quality education, training and practice of nursing that continually responds to changing social realities through the development and application of knowledge.

The College is having all the facilities with proper infrastructure, manpower and equipments of training nursing students. The college is planning to make a state of Art Simulation centre for Chhattisgarh State

## Programmes

Activity	Date	Highlights
<b>National Girl Child Day</b>	22/01/2021	Organized poster presentation and Webinars to share information about the atrocities and inequalities faced by the girls in their lives, to promote awareness about the rights and laws related to girl child and women.
<b>World Cancer Day</b>	04/02/2021	Organized online CNE, E-poster exhibition & competition on the theme "I AM & I WILL".
<b>World Water Day</b>	19/03/2021	Organized Poster Exhibition on the theme "Valuing Water".

## EDUCATION

Dr. Binu Mathew	<ul style="list-style-type: none"> <li>Worked as Coordinator for Simulation Lab.</li> <li>Course Coordinator for M.Sc. Nursing &amp; B. Sc.(Hons) Nursing.</li> <li>Guide for student projects.</li> </ul>
Mrs. J. Jeayareka	<ul style="list-style-type: none"> <li>Curriculum administration, Implementation and evaluation of B.Sc. (Hons) Nursing, AND M.Sc. (mental health nursing at AIIMS, Raipur).</li> <li>Organized the webinars, Debate competition and E-Poster competition on World Mental Health Day and World Cardiac Day.</li> <li>Representing Chhattisgarh as member for society of cardiac nurses for improving the nursing standard of practices.</li> </ul>
Mrs. Chetna Sahu	<ul style="list-style-type: none"> <li>Guide for student Research Project.</li> </ul>
Mr. P.D. Deepak	<ul style="list-style-type: none"> <li>Worked as Coordinator for Simulation Lab.</li> </ul>

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

Event	Date	Mode
International women's Day-STATE LEVEL	8th March 2020	Online
Online training course on "Foundational aspect of mechanical ventilator"organised by Amity university	22 <sup>nd</sup> May 2020	Online
Online training programme on " How to become online teacher" organised by Amity university	5 <sup>th</sup> June 2020	Online
"Optimising the learning in nursing education during covid-19 pandamic " organised by Apollo college of nursing.	17 <sup>th</sup> July 2020	Online webinar
Workshop on Research Methodology Attended	20th July, to 24th July,	Online Webinar
"Emotional strengthening during covid-19 pandemic" organised by Apollo college of nursing.	23 <sup>rd</sup> July 2020	Online webinar
Virtual Capacity building Training on Midwifery	15 <sup>th</sup> Dec, to 22 <sup>nd</sup> Dec	Online Webinar
CNE On World Cancer Day Theme, "I am and I will"	04 <sup>th</sup> February 2021	Online Webinar
Training Course on "Gender-Based Violence and Human Rights for Promoting Women Health ,NIHFW, New Delhi	15 <sup>th</sup> to 17 <sup>th</sup> March 2021	Online

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Binu Mathew

S. No.	Title	CME/Conference	Date	Organised By
1.	SELF AWARENESS- Recognizing ones emotion and their effects	Webinar at Vinayaka Mission College of Nursing , Tamilnadu	22.07.2020	Vinayaka Mission College of Nursing ,
2.	Promoting resilience and coping among nursing professionals in times of COVID- 19	Webinar	29.07.2020	Nimhans Bangalore
3.	“Optimizing the Learning in Nursing Education During COVID 19 Pandemic”	International Webinar	17.07. 2020.	organized by Apollo College of Nursing, Chennai
4.	Mental health and coping during COVID- 19	Webinar	30.07.2020	Sage publications
5.	Psychotherapy across epochs and methods	Virtual International conference	11.09.20 & 12.09.20	NIMHANS and Tavistock & Portman NHS,United Kingdom
6.	Mental Health and Psychological Well-being amidst COVID-19 Pandemic”	Webinar	09.10.2020	National Productivity Council, Under DPIIT, Ministry of Commerce and Industry, GOI
7.	Elderly Health and Health System Responses in the Recent Pandemic	Webinar	22.09.2020	National Institute of health and family welfare New Delhi
8.	Essentials of Medical writing – 1.Introduction 2.Methods 3.Presenting the findings 4.Placing the results 5. Ethics	webinar	21.09.2020 28.09.2020 25.09.2020  11.09.2020 09.10.2020	Sage publications and AIIMS Newdelhi
9.	Proton Therapy-Envisaging the role of nurses in the Novel Breakthrough for conquering cancer	Webinar	03.09.2020	Apollo college of Nursing Chennai

S. No.	Title	CME/Conference	Date	Organised By
10.	Contemporary Approaches for translational research in Nursing	International webinar	16.10.2020 & 17.10.2020	Apollo college of Nursing Chennai
11.	World cancer day – I CAN AND I WILL	CNE -WEBINAR	04.02.2021	College of Nursing, AIIMS Raipur

### Mrs. J. Jeayareka

S. No.	Title	CME/Conference	Date	Organised By
1.	"Training of Trainers (TOT) Program on Promotion of Mental health of Healthcare providers during COVID-19 Pandemic"	CNE	28.12.2020 to 31.12.2020.	Department of Nursing in collaboration with Department of Clinical Psychology at NIMHANS, World Health Organization (India) and Ministry of Health & Family Welfare, Government of India
2.	"Optimizing the Learning in Nursing Education During COVID 19 Pandemic"	International Webinar	17.07. 2020.	Apollo College of Nursing, Chennai
3.	"Publishing in High Indexed Journal: Need of the hour"*	National Webinar	31.07.2020	Sathya Sai College Of Nursing ,Tambaram
4.	"Journey to Futuristic Nursing: Opportunities and Challenges".	International Webinar	30.04.2021	Sri Ramachandra Institute of Higher Education and Research (Deemed to be University)
5.	"Inauguration of Society of Cardiac Nurses (India)"	CNE	29.09.2020	AIIMS, New delhi,& Members representing every state.

S. No.	Title	CME/Conference	Date	Organised By
6.	Mindfulness practices in everyday life	CME-WEBINAR	10.10.2020	College of Nursing and department of Psychiatry.
7.	COVID -19 CARE	CNE-WEBINAR	03.04.2020	National institute of mental health and neuro sciences
8.	World cancer day – I CAN AND I WILL	CNE -WEBINAR	04.02.2021	College Of Nursing, AIIMS Raipur
9.	Mental Health and Covid 19- Strengthening Nursing Competencies	CNE -Webinar	24.07.2020	Apollo college of Nursing Chennai
10.	PUBLIC SPEAKING SKILLS	Webinar	06.01.2021	Public Speaking Academy
11.	Emotional Strengthening during COVID-19 Pandemic	webinar	23.07.2020	Apollo College of Nursing Chennai
12.	Virtual Capacity building of midwifery faculty program	Training programme for midwifery faculty	17th to 24th 11. 2020	Indian Nursing council and UNFPA
13.	Pivotal role: nurse practitioner in critical care	International webinar	02.09.2020	Saveetha University
14.	Gender based violence against women and girl child	Webinar	17/09/2020	College of nursing ,AIIMS,Raipur

### Ms. Bagavathi. R

S. No.	Title	CME/Conference	Date	Organised By
1.	Pivotal role: nurse practitioner in critical care	International webinar	02.09.2020	Saveetha University
2.	Introduction of COVID 19	International Conferences	18.09.2020	BMJ (British medical journal ) Learning
3.	Virtual Capacity building of midwifery faculty program	Training programme for midwifery faculty	17 <sup>th</sup> to 24 <sup>th</sup> 11.2020	Indian Nursing Council and UNFPA
4.	New frontiers in midwifery practice and education	15 <sup>th</sup> National conferences	12 <sup>th</sup> to 14 <sup>th</sup> 02, 2021	SOMI (society of midwives )

S. No.	Title	CME/Conference	Date	Organised By
5.	Governance and leadership : optimizing nursing education and service	National webinar	24 <sup>th</sup> and 26 <sup>th</sup> .02 2021	MGM new Bombay college of nursing

#### Dr. Solomon James

S. No.	Title	CME/Conference	Date	Organised By
1.	Equity in access to Cancer services	CNE On World Cancer Day Theme, "I am and I will"	04.02.2021	College of Nursing, AIIMS Raipur

#### ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Mrs. J. Jeayareka	'Resilience in youth mental health and psychiatric nurse perspective'	2 <sup>nd</sup> National Workshop	5 <sup>th</sup> Feb, 2020	Govt. College of Nursing, Raipur, CG
		World cancer day - I CAN AND I WILL	CNE -WEBINAR	04 <sup>th</sup> Feb, 2021	College of Nursing, AIIMS Raipur
2.	Mrs Chitrekha Sippy	A descriptive study to assess self esteem and academic stress among undergraduate students of selected colleges in Raipur, Chhattisgarh.(won second position in scientific paper presentation)	2 <sup>nd</sup> National Workshop on 'Resilience in youth mental health and psychiatric nurse perspective'	5 <sup>th</sup> Feb, 2020	Govt. College of Nursing, Raipur, CG
3.	Mrs. Chandramani Sahu	Study to assess level of internet addiction among nursing student of Raipur	National Conference at government college Raipur	5 <sup>th</sup> Feb 2020	Government College of Nursing Raipur

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

S. No.	Projects
1.	A study to assess the prevalence of bullying victimization among college students at selected colleges in Raipur
2.	A comparative study to assess the adaptive behavior among typically developing children and children with disability at selected settings of Raipur
3.	A study to assess the effectiveness of assertiveness training on the level of self esteem and interpersonal communication satisfaction among students in selected colleges of Raipur
4.	A study to assess the prevalence of self harm among students appearing for competitive examinations in selected Institutes of India
5.	A study to assess the effectiveness of progressive muscle relaxation techniques on the stress and anxiety level of elderly in selected old age homes in Raipur
6.	A study to assess the effectiveness of motivational enhancement package on reducing alcohol dependency among alcoholic dependent clients in selected areas of Raipur, Chhattisgarh
7.	A study to assess the effectiveness of self defence empowerment training on self esteem and assertiveness among students of selected nursing colleges at Raipur
8.	Perception on occurrence of medication error and its preventions among the nurses in selected wards at AIIMS Raipur
9.	A study to assess the stress and coping strategies among nursing students to meet the academic challenges during Covid – 19 pandemic in selected nursing colleges in Raipur.
10.	A descriptive study to assess the knowledge and practice regarding preventions of COVID infections among parents of under 10 years children attending the selected OPD and immunization clinic of AIIMS Raipur.
11.	A study to assess the prevalence of substance abuse among students of selected colleges in Raipur.
12.	Stress and coping strategies among nurses and midwives during assisting vaginal delivery in pregnant women with Covid 19.
13.	A study to assess the prevalence of bullying victimization among college students at selected colleges in Raipur
14.	A comparative study to assess the adaptive behavior among typically developing children and children with disability at selected settings of Raipur
15.	A study to assess the effectiveness of assertiveness training on the level of self esteem and interpersonal communication satisfaction among students in selected colleges of Raipur
16.	A study to assess the prevalence of self harm among students appearing for competitive examinations in selected Institutes of India



S. No.	Projects
17.	Effectiveness of virtual reality therapy on anxiety and symptom distress with chemotherapy among children with cancer
18.	A study to assess the motivational enhancement package on reducing alcohol dependency among alcoholics ,at selected setting
19.	A study to assess the effectiveness of progressive muscles relaxation techniques on the stress and anxiety level of the elderly in selected old age home at Raipur.
20.	A study to assess the effectiveness of self defense empowerment training and assertiveness among students of selected nursing colleges at Raipur.
21.	A study to assess the prevalence and factors associated with premenstrual syndrome among adolescent girls and to test the effectiveness of web based online teaching on the management of PCOD.
22.	A Retrospective Study to analyze the Epidemiological Characteristics Of Death With COVID -19 in a Tertiary Care Hospital, Raipur, CG.
23.	A Descriptive Study to assess the Knowledge Of the Care Takers On the Rights Of the Mentally Ill Patients With the View To develop “ Informational Booklets On Rights Of Mentally Ill Patients”at Psychiatric IPD And OPD Of AIIMS, Raipur.
24.	A study to assess the prevalence of substance abuse among students of selected colleges in Raipur.
25.	Knowledge and attitude of parents towards infant walkers use and its associated risk.
26.	A study to assess the prevalence of substance abuse among students of selected colleges in Raipur C.G.
27.	A study to assess the prevalence of bullying victimization among college students at selected colleges in Raipur.
28.	Cross sectional study to assess the stress and coping strategy among nurse and midwives during assisting vaginal delivery in pregnant women with covid 19 in AIIMS , Raipur.
29.	Study to assess the Knowledge, attitude and practice regarding prevention of COVID infection among nursing students of selected nursing colleges of India.
30	A study to evaluate the effectiveness of online video assisted teaching programme on knowledge and attitude regarding eye donation among non medical undergraduate student sat selected colleges in Raipur
31	A retrospective study to assess the epidemiological characteristics of deaths with Covid 19 in a tertiary care hospital in Raipur, C.G.
32.	Emotional Impact, Stressors, Coping Strategies and Lived Experiences of Frontline Nurses During Covid-19 Pandemic: A Mixed Method Approach
33.	Knowledge on Epidemiological Determinants Of COVID-19, Adherence To COVID-19 Preventive Measures & COVID-19 Related Psychological Distress Among Middle-Aged Adults (35-55 Years) Attending OPDs Of AIIMS Raipur.
34.	Effectiveness Of Self Defense Empowerment Training On Self Esteem And Assertiveness Among Students

S. No.	Projects
35.	Assessment of knowledge level of caretakers on rights of mentally ill patients at selected settings of AIIMS Raipur hospital
36.	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 of management of premenstrual syndrome (PMS). Among adolescent girls of Raipur, Chhattisgarh.
37.	Assessment of Pediatric Triage Education amongst Nursing officers: A Multi centre Study
38.	An assessment of improvement amongst nursing students in pediatric triaging skills after a structured training session
39.	A Comparative Study to Assess The Adaptive Behavior Among Typically Developing Children And Children With Disability at Selected Settings of Raipur.
40.	Perception on Occurrence of Medication Errors and its prevention among Nursing Officers
41.	A study to assess the prevalence of immunization drop out among children less than five years

## Completed

S. No.	Projects
1.	An experimental study to evaluate the effectiveness of Mindfulness Medication on academic stress among adolescents in selected schools at Raipur
2.	A study to assess the effectiveness of structured teaching programme on knowledge regarding sickle cell anemia and its prevention among young adults in selected college of Raipur (CG)
3.	Utilization Practices of maternal health care services among mothers of infants residing in selected rural and urban areas.
4.	A study to assess effectiveness of structured teaching programme on knowledge regarding hypothyroidism among females visiting aims Raipur.
5.	A cross selection study to assess the prevalence of shift work sleep disorders among security guards working in AIIMS Raipur.
6.	A study to assess the effectiveness of structured teaching programme (STP) on knowledge regarding selected minor ailments of new born among primipara mothers admitted in PNC ward AIIMS Raipur.
7.	Effectiveness of Mindfulness on Academic stress among adolescents at selected schools, Raipur -2020
8.	A Descriptive study to assess the burden and various coping strategies employed by the caregivers of the persons with alcohol addiction in selected area of Raipur
9.	A study to assess the prevalence of Immunization drop out among children less than five years
10.	A study to assess the knowledge and attitude of parents of under five children to wards infant walker use and its associated risks with a view to develop and distribute information booklet in selected areas of Raipur cg.

S. No.	Projects
11.	A study to evaluate the effectiveness of video assisted teaching programme on knowledge and attitude regarding eye donation among non-medical undergraduate students at selected college
12.	A study to assess the effectiveness of video assisted teaching programme on knowledge regarding ill effects of internet addiction among undergraduate students in selected college
13.	A study to assess the effectiveness of health awareness programme on knowledge regarding ill effects of passive smoking on children among residents of selected areas of Raipur
14.	A study to assess the prevalence of Immunization drop out among children less than five years
15.	A descriptive study to assess the burden and various coping strategies employed by the care givers of the alcoholic patients in selected hospitals of Raipur.
16.	Effectiveness of Structured Teaching Programme (STP) on knowledge regarding selected minor ailments of newborn among primipara mothers Admitted in PNC ward, AIIMS Raipur.
17.	Effectiveness of a Structured Teaching Programme on Knowledge Regarding Polycystic Ovarian Syndrome (PCOS) among Adolescent Girls at a Selected School of Raipur.
18.	A pre experimental study to assess the effectiveness of information booklet on knowledge regarding prevention of diabetic foot among diabetic patients in OPD & IPD of AIIMS hospital Raipur, Chhattisgarh.
19.	A study to assess the effectiveness of Structured Teaching Programme on knowledge regarding sickle cell anemia and its prevention among young adults in selected colleges of Raipur, Chhattisgarh.
20.	Utilization practices of maternal health care services among mothers of infants residing in selected rural and urban areas
21.	A cross-sectional study to assess the prevalence of shift work sleep disorder among security guards working in AIIMS Raipur. – Chief investigator
22.	A descriptive study to assess the utilization practices of maternal health care services among mothers of infants residing in selected rural areas of Raipur.- Co-investigator
23.	A study to evaluate the effectiveness of video assisted teaching programme on knowledge and attitude regarding eye donation among non medical undergrad students at selected colleges.
24.	A study to evaluate the effectiveness of self instructional module on knowledge regarding organ donation among general population.
25.	A Study to Assess the Effectiveness of Health Awareness Programme on Knowledge Regarding Ill-Effects of Passive Smoking on Children Among Residents of Selected Areas of Raipur C.G.
26.	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
27.	A study to assess the effectiveness of Motivational Enhancement Package on reducing alcohol dependency among alcohol dependent clients in selected areas of Raipur, Chhattisgarh

## Collaborative Projects Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Impact of COVID 19 on Nurses	AllIMS, New Delhi ,College Of Nursing

## PUBLICATIONS

- Dr. Binu Mathew, Rohisha, Harish Kumar,** Effectiveness of Video assisted Teaching regarding Ill effects of Tobacco and Pan Chewing among migrant Laborers of Tatibandh Raipur, An International journal of Applied research, vol 10(09), Sept 2020: 62-65
- Dr. Binu Mathew, J.Jeayareka, Mrs. Chandramani Sahu & Mr. Prem Chander** on "An experimental study to assess the effectiveness of mindfulness meditation on academic stress among adolescent in selected schools at Raipur" IOSR Journal of nursing and health science, volume 9,issue 5 ,sep-oct 2020 pp 11-40.
- J.Jeayareka, Dr.K.Raman ,Dr.Lokesh Kumar Singh ,Dr.Thushar Bharat jagzape ,** "effectiveness of virtual reality therapy on anxiety and symptom distress among children with cancer". International Journal of Research in Pharmaceutical Sciences 2020, 11 (SPL4), 3117-3123
- Rohisha I. K, Ritika Rocque & Harish Kumar.** Survey on health indicators of selected rural areas of Raipur, Chhattisgarh. Indian Journal of Public Health Research & Development, April 2020, Vol, 11: (4), 329-333 DOI : <https://doi.org/10.37506/ijphrd.v11i4.4625>
- Ritika Rocque.** Bioterrorism: Are we ready for such health care emergencies? Int. J. Nur. Edu. and Research. 2020; 8(4):554-558. DOI: 10.5958/2454-2660.2020.00122.
- Ritika Rocque, Rohisha I. K., Binu Mathew.** Prevalence of Shift work Sleep disorders among security personnel at AllIMS Raipur: A Cross sectional Study. Int. J. Nur. Edu. and Research. 2021; 9(1):80-84. DOI: 10.5958/2454-2660.2021.00020.X
- Mr.Sharun .N.V.** "Surgical Masks: The Hoax & the Truth." IOSR Journal of Nursing and Health Science (IOSR-JNHS), 9(2), 2020, pp. 56-60.
- N.V, Sharun.,** 2020. Simple febrile seizure: Answers to common parental concerns. International Journal of Medical and Health Research, 6(9), pp.33-36.
- Dr. Hitesh Choudhary,** Creativity in advertising; impact on communication effect & consumer purchase behavior, International Journal Of Nursing Sciences And Practice. Asian Journal of Management, ISSN:-2321-5763 (Online), 0976-495X (Print) Vol.:12, Issue:01, January - March, 2021
- Dr. Hitesh Choudhary,** A study to assess the effectiveness of structured teaching programme on knowledge regarding hypothyroidism among females visiting AllIMS hospital in GFNPSS- International Journal of Multidisciplinary Research, Volume 2, Issue 1, January 2021 ISSN (O): 2582-693X, DOI: 10.46376/IJMR/2.1.2021.252
- Dr. Hitesh Choudhary,** "A comparative study to assess occupational stress level among male and female class 4th employees of AllIMS hospital Raipur." In INTERNATIONAL JOURNAL OF NURSING DIDACTICS, 11(01) January (2021) ISSN: 2231-5454, VOL 11 NO 01 (2021) doi:10.15520/ijnd.v11i01.3207
- Jissa Donel, Bagavathi.R,** et.al, effectiveness of structure teaching programme on knowledge regarding polycystic ovarian (PCOS) among adolescent girls at a selected school in Raipur, international journal of nursing care, vol.9 NO 1(2021), PG NO: 45-50.
- Jibin M, Rohisha IK.** An analysis of Omenn syndrome - A rare combined immunodeficiency syndrome. Indian j public health res dev [Internet]. 2021;12(2):168-70. Available from : <http://dx.doi.org/10.37506/ijphrd.v12i2.14110>
- Rohisha IK, Jibin M.** COVID-19—A new normal Indian community. J Family Med Prim Care. 2021;10(1):15.
- Rohisha IK,** Shiney Easo, Neethu Maria Babu et al. Knowledge Regarding Malaria among People in Coastal Region of Malpe District Karnataka. Indian Journal of Communicable Diseases [Internet]. 6(1):5-8. Available from: <http://dx.doi.org/10.21088/ijcd.2395.6631.6120.1>

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

Dr. Binu Mathew Assistant Professor	<ul style="list-style-type: none"><li>• Prepared proposal of Centre of Excellence- Nursing sciences Initiative along with AIIMS Delhi and all six new AIIMS- March 2020- Niti Aayog by 2022 modeled on similar centers in the world</li><li>• Prepared proposal of Simulation lab for College of Nursing</li></ul>
Mrs. J. Jeayareka	<ul style="list-style-type: none"><li>• Completed the "Training of Trainers (TOT) Program on Promotion of Mental health of Healthcare providers during COVID-19 Pandemic" organized by the Department of Nursing in collaboration with Department of Clinical Psychology at NIMHANS, World Health Organization (India) and Ministry of Health &amp; Family Welfare, Government of India</li></ul>
Mrs. Chetna Sahu	<ul style="list-style-type: none"><li>• Successfully completed Online Training of "Gender-Based Violence and Human Rights for Promoting Women Health" organized at New Delhi by the National Institute of Health and Family Welfare from 15 - 17 March</li></ul>
Mrs. Chitrekha Sippy	<ul style="list-style-type: none"><li>• SECOND POSITION IN SCIENTIFIC PAPER PRESENTATION</li></ul>
Mr. Sharun N. V.	<ul style="list-style-type: none"><li>• Completed Basic course in Biomedical Research under ICMR and National institute of epidemiology ,March-June 2020</li></ul>

## DEPARTMENT OF ANATOMY

### Additional Professor & Head

Dr. Dhanesh Kumar Sharma

### Additional Professor

Dr. K. Vijaya Kumar

### Associate Professor

Dr. Soumitra Trivedi

Dr. A. U. Siddiqui

Dr. Manisha B Sinha

Dr. Mrithunjay Rathore

Dr. Amit Purushottam Tirpude (Joined on 5.1.2021)

### Assistant Professor

Dr. Dharam Singh Rathia (Joined on 17.11.2020)

## HIGHLIGHTS

The Seventh Edition of Gross & Microanatomy Practical Manuals authored by the HoD and colleagues had been provided to 1st year MBBS students of 2020 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. Succeeded in getting 100% passing result of students of

MBBS batch 2019 with distinction of 16 students by the combined effort of students and proper management of excellent offline and online teaching as Head of the Department, a recordable and great achievements towards students, department and Institute. Dr. Manisha B Sinha chaired a scientific session in International Virtual Anatomy Conference, organized by Anatomical Society KGMU, UP Lucknow.

## 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 Setting of Molecular reproduction Lab

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Soumitra Trivedi

S. No.	Title	CME/Conference	Date	Organised By
1	Effect of Mantra Meditation on Brain Structures	CME	28.04.2021	YERT Organization

**Dr. Manisha B Sinha**

S. No.	Title	CME/Conference	Date	Organised By
1.	Domains of Learning	First online course of medical education Technologies	24.06.2020	AIIMS, Raipur
2.	Microteaching	First online course of medical education Technologies	10.07.2020	AIIMS, Raipur

**ORAL PAPERS/POSTERS PRESENTED****Dr. Manisha B Sinha**

S. No.	Authors	Presentation	CME/Conference	Date	Organised By
1.	Dr. Manisha B Sinha	Setting of genetic laboratory in department of Anatomy: An experience	International e-conference on "Emerging Trends in Research-Emphasis on Basic Medical Sciences" BMS-e-CON-2020	18.09.2020	Biomedical research of AarupadaiVeedu Medical College, Pondicherry
2.	Dr. Manisha B Sinha	Sperm DNA Fragmentation: An Important landmark of Evaluation of male infertility	International Virtual Anatomy Conference	19.02.2021	KGMU, Lucknow, UP

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

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	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 year	2021-23	5,00,000/-
2.	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/-

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

S. No.	Projects
1.	Impact of different yogic posture on core muscle in degenerative disk diseases without neurological deficit
2.	Utilization of social media platforms as a supportive tool in teaching of Anatomy
3.	Study of Triangular fibrocartilage complex with reference to tearing patterns and distal Radioulnar joint instability- A Cadaveric study.
4.	Anatomical variations of the sphenoid sinus septations and clinico-anatomical correlations in trans-sphenoidal pituitary surgery.
5.	Characteristics of foot morphology and their relationship to gender, age, body mass index and bilateral asymmetry in Indian adults with normal and symptomatic foot.

## Completed

S. No.	Projects
1.	Myoelectric Activity of Core and Lower Limb Muscle in Different Yoga Pose and its Clinical Implication

## Collaborative Projects Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Study of Endoscopic advantage over conventional approach for teaching by dissection of Nose-PNS and Anterior skull base	Department of ENT

## Completed

S. No.	Project	Collaborating Department/Institution
1.	Assessment of Percentage Body Fat by using Ultrasound Technique in Adult Indian Males	Department of Physiology

## PUBLICATIONS

- Sharma DK. Triple X Syndrome: An Appraisal Under Review Study. Indian Journal of Genetics and Molecular Research (IJGMR). July-December 2020;9(2):57-61.
- Sharma DK. Pineal Gland, Some Secrecy Yet to Clear Towards its Metaphysical Connection: A Review Study. Indian Journal of Anatomy (IJA). October-December 2020;9(4):275-280.
- Rathore M, Singh P, Trivedi S, Sharma DK, Pandey S. AU Model preparation: A novel implement for teaching & learning anatomy and its perception on undergraduate medical students at AIIMS Raipur. December 2019. Indian Journal of Clinical Anatomy and Physiology. 2019. 6(4):457-461
- Siddiqui AU, Sharma DK, Trivedi S, Sinha MB, Rathore M. 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. 9(1),7
- Siddiqui AU, Gurudiwan R, Siddiqui AT, Gupta P, Singh J. Putative Clinical implications of Unilateral Ossified Sacrospinous Ligament. J of Health Allied Sciences NU. 2020; 10(03): 135-137
- Sinha MB, Somkuwar SK, Dharmendra K, Sharma DK. Anatomical variations of papillary muscles in human cadaveric hearts of Chattishgarh. Indian journal of clinical Anatomy and physiology 2020; 7(1); 1-7
- Kumar D, Sinha M B, Panda M, Mohapatra C. Revisiting almost forgotten Two ends of the central Sulcus of cerebral hemisphere in brains of cadavers. Indian journal of clinical Anatomy and physiology 2020;7(3): 304-8
- Bose P, Sinha MB. A cadaveric study on the morphology of psoas minor and psoas accessories muscles. 2020; 6(3):100-103.



## Chapter in book

S. No.	Author(s)	Chapter	Name of the Editor	Book	Edition	City of Publication	Publisher	Year of Publication
1.	Dr. Krishna and Dr. Medha Joshi	All Chapters	Dr. Manisha B Sinha	Manual of Human Anatomy Dissection	1 <sup>st</sup>	Delhi	CBS Publishers & distributors Pvt Ltd	2021

## Edited books and monographs.

### Books:

S. No.	Author (s)	Chapter	Name of the Editor	Book	Edition	City of Publication	Publisher	Year of Publication
1.	Dr. D. K. Sharma Dr. Soumitra Trivedi Dr. A. U. Siddiqui Dr. Manisha B Sinha Dr. Mrithunjay Rathore	All chapters	Dr. D. K. Sharma	Manual of Human Microanatomy	6 <sup>th</sup>	Raipur	Department of Anatomy	2020
2.	Dr. D. K. Sharma Dr. Soumitra Trivedi Dr. A. U. Siddiqui Dr. Manisha B Sinha Dr. Mrithunjay Rathore	All chapters	Dr. D. K. Sharma	Manual of Human Gross & Developmental Anatomy	6 <sup>th</sup>	Raipur	Department of Anatomy	2020

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Dr. D. K. Sharma:

1. Principal Author of Seventh Edition of Gross & Microanatomy Practical Manuals in the department, provided to 1st year MBBS students of 2020 batch.

### Dr. Soumitra Trivedi:

1. Developed a simple method of Plastination of brain tissue in slices that can be preserved for indefinite period of time and can be used for teaching purposes as and when required.
2. Developed cross word quizzes for students to make Anatomy learning a fun task.
3. Organized a Drawing & Painting competition for students for Embryology & Neuroanatomy to make the learning more interesting
4. Making of charts, paper models, used Animations and videos while teaching for better understanding of Anatomy specially Clinical Anatomy, Embryology & Neuroanatomy to MBBS students
5. Endoscopic demonstration & teaching of nasal cavity, paranasal sinuses, oral cavity, pharynx & larynx
6. Upgrading the Museum specimen along with photographic display and study material for better understanding, learning as well as for examination purposes.

### Dr. Manisha B Sinha:

1. Course faculty in “First online Course on Medical Education Technologies” 22-06-2020 to 20-07-2020 at AIIMS, Raipur
2. Member of National Academy of Medical Sciences (MNAMS) March 2021
3. IMA National President’s Appreciation Award for Women for Best Social activity for year 2020, in Dec 2020.

## Department of Anaesthesiology

### Professor and Head

Dr. P.K. Neema (Retired on 31-12-2020)

Dr. Nandkishore Agrawal (Ho-D from 02.01.2021)

### Additional Professor

Dr. Subrata Kumar Singha

### Associate Professors

Dr. Monica Khetarpal

Dr. Rashmi Dubey

Dr. Samarjit Dey

### Assistant Professors

Dr. Mayank Kumar

Dr. Sarita Ramchandani

Dr. Habib Md R. Karim

Dr. Chinmaya Kumar Panda

Dr. Mamta Sinha

Dr. Jitendra Kalabande

## HIGHLIGHTS

The department of anaesthesiology is providing routine Anesthesia, regional Analgesia and monitored anaesthesia care in nine major operation theaters for performing routine surgical procedures of various departments including General Surgery, Orthopedic Surgery, ENT, Dental Surgery, Ophthalmology, Obstetrics and Gynaecology, and super specialty departments including Cardiothoracic Surgery, Neurosurgery, Plastic Surgery, Urology and Paediatric Surgery. Additionally, the department provides Anaesthesia to the patients undergoing CT and MR imaging under sedation / Anaesthesia, procedures in DSA laboratory, and ultrasound guided procedures. The department also provides technical expertise and support to the patients admitted to Trauma and Emergency ward and high dependency unit needing Endotracheal intubation, peripheral and Central Venous Cannulation, etc.

The department is managing a 16 bedded Critical Care Unit wherein Neurosurgical, Cardiothoracic and Vascular Surgery patients, and patients of Urology, General Surgery, ENT, ECT, Gynaecology and Obstetrics, COVID 19 & Mucormycosis are clinically

managed. The Critical Care includes intensive monitoring, Ventilatory and Respiratory support, Hemodynamic support, Acute Renal failure, Nutritional support, and routine management of post-surgical patients. The department screens patients scheduled for Surgery in pre Anesthesia check-up Clinic.

The department runs a Pain and Palliative Care service 24\*7 for Chronic and Acute Pain. Pain clinic OPD runs every day. Interventional pain procedures are done in OT. The department is running post graduate MD Anaesthesiology program. The department is also conducting basic life support and advance cardiac life support training for undergraduates, Nursing students and Nursing staffs and others. Various faculties of the department have taken part in different regional and national conferences as faculties. In addition to departmental responsibilities, the department has provided expertise in installation and commissioning of 24 modular operation theaters, gas plant room, liquid medical oxygen plant, and medical gas pipeline system in various designated areas of the hospital.

## EDUCATION

The department is associated with teaching of undergraduate students (MBBS), interns, postgraduate students (MD Anaesthesiology) as well as teaching and training of senior residents in scientific practice of clinical anaesthesia, and management of patients in critical care and pain management. Education program for postgraduate and senior residents includes seminars, didactic lectures, case presentation and discussions, journal club, science of monitoring, management of complications in day to day (routine) emergency surgeries, etc. The department has started the post-doctoral certificate courses (PDCC) in :-

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

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

**Prof (Dr.) Nandkishore Agrawal**

S. No.	Title	CME/Conference	Date	Organised By
1.	The Difficult Airway	TMC-DAC 2020	9-10.01.2021	Tata Memorial Center, Mumbai
2.	Regenerative Sciences	Indian stem cell study group association 4 <sup>th</sup> biennial international ISCSGCON -2021 & CME on Regenerative sciences	15.01.2021	Indian Stem Cell Study Group Association
3.	Advanced Airway Management	Kochi Advanced Airway Management Conference -2021	17.01.2021	Airway Society Kochi (ASK)
4.	Safety and Efficiency Amidst Resources Limitation	Criticare-2021	26.02.2021 - 28.02.2021	Indian Society of Critical Care Medicine
5.	Expected partial pressure of oxygen (EPaO <sub>2</sub> ) with respect to different fraction of inspired oxygen FiO <sub>2</sub>	2020 World Critical care & Anaesthesiology conference & 2020 World Heart & Cardio-thoracic Surgery conference	19.03.2021-20.03.2021	WCAC, Bangkok
6.	Organizing Committee Member	2020 World Critical care & Anaesthesiology conference & 2020 World Heart & Cardio-thoracic Surgery conference	19.03.2021-20.03.2021	WCAC, Bangkok

S. No.	Title	CME/Conference	Date	Organised By
7.	Chaired the scientific sessions on Critical care and emergency medicine, Hypertension & Stroke, Neuro Anaesthesia, Nursing, Cardiac Anaesthesiology, Critical care and anaesthetic challenges, Cardiovascular Disease, Heart Failure, Trauma & Anaesthesiology, Pain Medicine, Neurobiology, Intensive care, paediatrics critical care, Dementia, Neurology, Covid 19 – Critical care, Neonatal Care, Neurodegenerative Disease.	2020 World Critical care & Anaesthesiology conference & 2020 World Heart & Cardiothoracic Surgery conference	19.03.2021-20.03.2021	WCAC, Bangkok
8.	Co-chaired the scientific sessions on Acute cardiovascular care, cardiothoracic and cardiovascular surgery, critical care and emergency medicine, Trauma, pain and regional anaesthesia, ECMO, Echocardiography, Cardiac anaesthesia, Paediatric cardiology, Hypertension, Minimally invasive surgery, Cardiac and Neuro Anaesthesia, Oncology, Anaesthetic and ICU Management and practice, Stroke, Corona virus disease 2019 (COVID-19): Critical care, Cardiology, Neuro-critical care.	2020 World Critical care & Anaesthesiology conference & 2020 World Heart & Cardiothoracic Surgery conference	19.03.2021-20.03.2021	WCAC, Bangkok

#### Dr. Subrata Kumar Singha

S. No.	Title	CME/Conference	Date	Organised By
1.	Management of TBI – Role of Hypothermia	3 <sup>rd</sup> Annual Conference of SNCC	27 <sup>th</sup> -29 <sup>th</sup> Nov 2020	Society of Neuro Critical Care-India

#### Dr. Samarjit Dey

S. No.	Title	CME/Conference	Date	Organised By
1.	Ultrasound in Pain Medicine	ISSPCON 2020	7 <sup>th</sup> -9 <sup>th</sup> Feb, 2020	ISSP, Ahmedabad

S. No.	Title	CME/Conference	Date	Organised By
2.	Palliative Care -introduction	Palliative Care CME by The Anaesthetist Society	9 <sup>th</sup> October, 2020	The Anaesthetist Society
3.	Ultrasound evaluation for Ankle Pain	WBSSPCON 2021	16 <sup>th</sup> -17 <sup>th</sup> Jan 2021	ISSP, West Bengal
4.	Role of Pain & Palliative Care in Cancer Care	World Cancer Day Awareness CME	4 <sup>th</sup> Feb,2021	Department of Oncology & Paediatrics, AIIMS Raipur
5.	Evaluation of Low back Pain	Joint Annual Conference on Anaesthesiology, Pain & Critical Care	20 <sup>th</sup> -21 <sup>st</sup> Feb 2021	ISA, Agartala

#### Dr. Mayank Kumar

S. No.	Title	CME/Conference	Date	Organised By
1.	Upper limb blocks & Lower limb blocks	CME on 'Peripheral Nerve Block'	06.02.2021	Shri Shankaracharya Institute of Medical Sciences,
2.	Perioperative fluid management in pediatric patients	CME on 'Challenges in fluid therapy: a novel prospective'	21.03.2021	Shri Shankaracharya Institute of Medical Sciences,

#### Dr. Sarita Ramchandani

S. No.	Participated as	CME/Conference	Date	Organised By
1.	Course Faculty	American Heart Association (AHA) Certified Basic Life Support (BLS) Course	2021	Govt. Dental College.
2.	Delegate	Good Clinical Practice and Ethical Issues involving Human Subjects	30.01.2021 to 01.02.2021	AIIMS, Raipur.
3.	Delegate	First online course on Medical Education Technologies	22.06.2020 to 20.07.2020	AIIMS, Raipur.

S. No.	Participated as	CME/Conference	Date	Organised By
4.	Delegate	Essentials of Medical Writing by Indian Association of Medical Journals Editor (IAMJE)	21 <sup>st</sup> Aug. 2020	Indian Association of Medical Journals Editor
5.	Delegate	E - Criticare by Indian Society of Critical Care Medicine	8 <sup>th</sup> Nov. 2020	Indian Society of Critical Care Medicine
6.	Delegate	How To Publish with Oxford Journals/ Oxford Medicine Online by ESBCO	9 <sup>th</sup> July 2020	ESBCO

#### Dr. Habib Md. Rezaul Karim

S. No.	Title	CME/Conference	Date	Organised By
1.	COVID-19 update	CME of Lenox Hill Hospital, USA	21.07.2020	Lenox Hill Hospital, USA
2.	TMC-DAC	Tata Memorial Hospital	9-10.01.2021	Tata Memorial Hospital
3.	NIV in COVID-19	International School of NIV, Spain	02.08.2020	International School of NIV, Spain
4.	Living Well with Kidney Disease	School of Public Health – AIIMS Raipur	10.03.2021	School of Public Health – AIIMS Raipur
5.	ISA online series	ISA Online Education	Monthly	Indian Society of Anaesthesiologist
6.	CONTAIN-COVID	ISCCM Web-n-series	Monthly	Indian Society of Critical Care Medicine

#### Dr. Chinmaya Kumar Panda

S. No.	Title	CME/Conference	Date	Organised By
1.	Care Of Indwelling Devices (Bundle Care)	Hospital Infection Control Committee, AIIMS, Raipur	06.04.2021	AIIMS, Raipur
2.	Conference Attended	27 Annual Conference of Indian Society of Critical Care Medicine	26-28.02.2021	Indian Society of Critical Care Medicine
3.	Multi Organ Ec Support & Therapy (Rrt&Vvecmo) Work	27 Annual Conference of Indian Society Of Critical Care Medicine	24-25.02.2021	Indian Society Of Critical Care Medicine

## Dr. Mamta Sinha

S. No.	Title	CME/Conference	Date	Organised By
1.	Lower limb blocks & Abdominal & Fascial plane blocks.	CME on 'Peripheral Nerve Block'	06.02.2021	Shri Shankaracharya Institute of Medical Sciences,

## RESEARCH

### Departmental projects (Including thesis/dissertations)

#### Ongoing

S. No.	Projects
1.	Effect of real-time oxygen consumption versus fixed flow based low flow anaesthesia on oxygenation and perfusion: a randomized, single-blind study (Thesis)
2.	Preoxygenation using pressure support with positive end-expiratory pressure versus manual bag-mask ventilation in overweight and obese patients: a randomized, pilot study (Thesis)
3.	A multinational online survey on the current perioperative practice for the management of patients with Diabetes Mellitus: a descriptive study.
4.	Randomized, single blind, comparison of two different flow rates of sevoflurane anaesthesia on acute kidney injury.
5.	Relationship of ROX and Modified ROX index with High Flow Nasal Cannula oxygen therapy in COVID 19 patients An observational study
6.	Effectiveness of a modified spirometry device in improving respiratory parameters in racheostomised patients who underwent head and neck surgery : A non-randomized, safety and feasibility pilot study
7.	Ultrasound Versus Armitage Formula Guided Caudal Block in Pediatric Patients Undergoing Infra Umbilical Surgery: A Randomized Single Blind Comparison of Volume Requirement.
8.	Comparison of Lignocaine and Dexmedetomidine on Attenuation of Cough Reflex and Hemodynamic Response During Tracheal Extubation After Supratentorial Tumor Surgery: A Randomized Control Study
9.	Intraoperative Adherence of Lung Protective Ventilation In Improvement Of Oxygenation With Fixed Peep And Individualised Peep In Post Covid Patients -A Randomised Controlled Trial.
10.	Relation Of Absolute Nil-Per-Oral Status with Inferior Vena Cava Collapsibility Index and Post-Spinal Hypotension In Infra-Umbilical Surgeries: An Observational Study.
11.	Attenuation of haemodynamic response to laryngoscopy and tracheal intubation with intravenous morphine - a randomized comparison of four different timings.
12.	Relationship between severity of anaemia and acid base parameters - a pilot study.
13.	Comparison of ultrasound guided transverses abdominisplane block (TAPB) versuse rector spinae plane-block (ESPB) for analgesia after caesare and elivery arandomized, open label, parallel group clinica ltrail.
14.	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 trail.
15.	Ultrasound-guided radial arterial cannulation by dynamic needle tip positioning using short axis out of plane approach vs. long axis in-plane approaches: a prospective randomized controlled trial.

S. No.	Projects
16.	A randomized prospective double blind study to assess the analgesic efficacy of ultrasound guided erector spinae plane block and to compare with port site infiltration in laparoscopic cholecystectomy
17.	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.
18.	Customized versus standard fixed sized pillow for tracheal intubation in the sniffing position: A randomized study
19.	A prospective, randomised double-blinded study to compare Phenylephrine and Norepinephrine infusion to prevent hypotension following Subarachnoid block in patients undergoing Caesarean delivery.
20.	Radial arterial cannulation by Ultrasound-guided Dynamic needle tip positioning using short axis out of plane approach vs Ultrasound guided Long axis in-plane approach: A Prospective Randomized Controlled trial.
21.	Role of Internal jugular vein (IJV) collapsibility index to predict post spinal hypotension in pregnant women undergoing cesarean section, a prospective observational study
22.	Comparison of morphine and dexmedetomidine as adjuvants to isobaric levobupivacaine for spinal anaesthesia in patients undergoing abdominal hysterectomy. ( Completed )
23.	Comparison of Proseal LMA™ and Ambu® Auragain™ LMA in patients undergoing laparoscopic Cholecystectomy
24.	A randomized prospective double-blind comparative study to assess the analgesic efficacy of Ultrasound guided Erector Spinae Plane block with port site infiltration in laparoscopic cholecystectomy
25.	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.”
26.	Comparison of morphine and dexmedetomidine as adjuvants to isobaric levobupivacaine fo spinal anaesthesia in patients undergoing abdominal hysterectomy. ( Completed )
27.	Comparison of Proseal LMA™ and Ambu® Auragain™ LMA in patients undergoing laparoscopic Cholecystectomy
28.	A randomized prospective single blind study to compare the analgesic efficacy of thoracic epidural block and erector spinae plane block in breast cancer surgery (Completed)
29.	A randomized prospective double-blind comparative study to assess the analgesic efficacy of Ultrasound guided Erector Spinae Plane block with port site infiltration in laparoscopic cholecystectomy
30.	Ultrasound-guided internal jugular vein cannulation by Dynamic needle tip positioning using28. 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.”
31.	Customized versus standard fixed sized pillow for tracheal intubation in the sniffing position: A randomized study



S. No.	Projects
32.	A prospective, randomised double-blinded study to compare Phenylephrine and Norepinephrine infusion to prevent hypotension following Subarachnoid block in patients undergoing Caesarean delivery.
33.	Role of Internal jugular vein (IJV) collapsibility index to predict post spinal hypotension in pregnant women undergoing cesarean section, a prospective observational study
34.	The correlation of Preoperative HbA 1c level with intraoperative and postoperative complications in type 2 diabetic patients: a pilot study
35.	The relationship of perfusion index with post-subarachnoid sensory block regression in parturients undergoing LSCS.
36.	A Randomised control Trial comparing Pulse Pressure Variation (PPV) and Pleth Variability Index (PVI) for goal directed fluid therapy intra-operatively in patients undergoing intracranial (supratentorial ICSOLs) surgeries.
37.	Comparison of Efficacy of IV Esmolol with IV Dexmedetomidine in attenuation of Sympathomimetic response and BIS variations to Laryngoscopy and Intubation in Patients undergoing Elective Off Pump Coronary Artery Bypass Grafting, [OP CAB). A prospective, double-blind, randomised controlled trial.
38.	Double blind randomised control study of Intranasal Dexmedetomidine versus Midazolam as anxiolysis prior to elective infra-umbilical surgeries under general anaesthesia in children of age 2-12 years.
39.	Quality Improvement Project to Improve maternal and child new- born care in 5 aspirational districts of Chhattisgarh. Extramural Project with UNICEF
40.	Capacity Building and Strengthening of Hospital Infection Control to detect and prevent antimicrobial resistance in India " Extramural Project – CDC & AIIMS New Delhi
41.	Comparison of combined adductor canal block and IPACK block versus intra-articular ropivacaine and morphine and Genicular Nerve Block for post operative analgesia in knee arthroscopic procedures
42.	A prospective, randomized, double blinded study to compare analgesic efficacy of pectointercostal fascial block and erector spine block in patients undergoing cardiac surgery- a pilot study
43.	A prospective double-blinded randomised trial to compare the analgesic effect of the retrolaminar block and erector spinae plane block in patients undergoing percutaneous Nephrolithotomy.
44.	Efficacy of Oral Melatonin, Oral alprazolam, combination of both and placebo, as a pre medication for preoperative anxiety in adult patients undergoing surgical procedures under General anaesthesia: A prospective double blinded randomized study.
45.	A comparative study to assess the effect of intraoperative use of 0.9% normal saline, balanced salt solution (Plasmalyte), and combination of normal saline and Ringer's lactate on intraoperative metabolic parameters in patients undergoing elective craniotomy for brain tumors: A randomized controlled trial.
46.	Comparative analysis to assess the effect of caudal epidural injection of ropivacaine and fentanyl as pre-emptive analgesia in lumbosacral spine surgeries- A randomized controlled trial

## PUBLICATIONS

### Journal publications

1. Karim HMR, Bhakta P, O'Brien B. Observed links between cannabis consumption and volatile anesthetic requirements warrant skepticism. *J Clin Anesth.* 2021 Feb; 68 : 110085 . doi : 10.1016/j.jclinane.2020.110085. Epub 2020 Oct 1.
2. Panda CK, R Karim HM, Neema PK. Bronchoscopy examination of a patient with tracheobronchial injury having intractable cough: Role of sevoflurane sedation and paraoxygenation. *Ann Card Anaesth*2021;24:121-3
3. Bhakta P, Reazaul Karim HM, Mandal M, O'Brien B, Esquinas AM. Barotrauma in covid - Causes and consequences. *Annals of Medicine and Surgery.* 2021 Apr;64:102189. DOI: 10.1016/j.amsu.2021.102189.
4. Poonurapampil JA, Karim HMK, Varghese AR. Revisiting electronic systems and gadgets for patient management in COVID-19 Intensive Care Units. *Anaesth. pain intensive care* 2021;25(1):5-7.
5. Bhakta P, Karim HMR, O'Brien B. Gastric emptying following tea with milk in pregnancy. *Eur J Anaesthesiol.* 2021 Jan;38(1):82. doi: 10.1097/EJA.0000000000001273.
6. Karim HMR, Esquinas AM. Our insight about Mukhtar et al.'s outcome of non-invasive ventilation in COVID-19 critically ill patients. *Anaesth Crit Care Pain Med.* 2020 Nov 13:S2352-5568(20)30267-8. doi: 10.1016/j.accpm.2020.09.012. Epub ahead of print.
7. Karim HMR, Bhakta P, O'Brien B. Observed links between cannabis consumption and volatile anesthetic requirements warrant skepticism. *Journal of Clinical Anesthesia.* 2020 Oct; 68 : 110085 . DOI : 10.1016/j.jclinane.2020.110085.
8. Karim HMR, Bhakta P, Esquinas AM. An enquiry to Choi et al.'s surgical outcome and prognosis of lung cancer in patients with chronic lung disease. *Eur J Cardiothorac Surg.* 2020 Sep 28:ezaa298. doi: 10.1093/ejcts/ezaa298. Epub ahead of print. PMID: 32986809.
9. Karim HM. Cloud computing-based remote pre-anaesthetic check-up: An adapted approach during corona pandemic. *Indian J Anaesth*2020;64:248-9
10. Md Reazaul Karim H, Esquinas AM. Feasibility of Domiciliary Non-Invasive Mechanical Ventilation in Elderly Patients with Chronic Respiratory Failure: Is It without Limits? *Turk Thorac J.* 2020 Sep;21(5):361. doi: 10.5152/TurkThoracJ.2019.19069. Epub 2020 Sep 1. PMID: 33031731; PMCID: PMC7544407.
11. Poonurapampil JA, Reazaul Karim HM, Garhwal A, Babu MJ. The conundrum of perioperative management for emergency cesarean section in a patient with anaphylactic shock. *Bali J Anaesthesiol* 2020;4, Suppl S2:74-6
12. Sharma R, Karim MRK, Mujahid OM, Kanjilal R. Sedation in a patient with William Syndrome without supraaortic stenosis and normal QT: Challenge still remains. *Anaesth. pain intensive care* 2020;24(3):363-365.
13. Guia M, Ciobanu LD, Sreedharan JK, AbdelrahimME, .. Karim HMR, et al. The role of non-invasive ventilation in weaning and decannulating critically ill patients with tracheostomy: A narrative review of the literature. *Pulmonology* (Epub ahead of print) <https://doi.org/10.1016/j.pulmoe.2020.07.002>
14. Gonçalves G, Saeed H, Abdelrahim ME, Harb HS, Madney YM, Eng K, Karim HMR, et al. Non-invasive ventilation in patients with an altered level of consciousness. A clinical review and practical insights. *Adv Respir Med.* 2020; 88 ( 3 ) : 233 - 244 . doi : 10.5603/ARM.2020.0110. PMID: 32706107.
15. R Karim HM, Gonçalves G, Esquinas AM. Immediate hemodynamic and gaseous exchange; effect of Bi-Level positive airway pressure after cardiac surgery: Our insight to Hamid et al.'s study. *Ann Card Anaesth.* 2020 Jul - Sep; 23 ( 3 ) : 372 . doi : 10.4103/aca.ACA\_40\_20. PMID: 32687104; PMCID: PMC7559972.

16. R Karim HM, Ahmed G. Hydroxychloroquine prophylaxis for SARS-CoV-2 infection among healthcare workers. *Indian J Med Res.* 2020 Jul & Aug;152(1 & 2):119-120. doi: 10.4103/ijmr.IJMR\_2372\_20. PMID: 32773410.
17. Karim HR, Bhakta P, O'Brien B, Esquinas AM. Despite Its Association With Less Postoperative Respiratory Failure, the Superiority of Sugammadex Over Neostigmine Remains Questionable. *AnesthAnalg.* 2020 Aug;131(2):e78-e79. doi: 10.1213/ANE.0000000000004862. PMID: 33031672.
18. Karim HMR, Esquinas AM, Ziatabar S, Insalaco G, Skoczyński S, Šarc I, et al. Continuous Positive Airway Pressure (CPAP) in Non-Apneic Asthma: A Clinical Review of Current Evidence. *Turk Thorac J.* 2020 Jul;21(4):274-279. doi: 10.5152/TurkThoracJ.2019.19049. PMID: 32687789; PMCID: PMC7371403.
19. Karim H, Mistry T. Influence of Workplace, Location and Experience on Preoperative Routine Viral Screening Tests: A Post-Hoc Observation from an Online Survey. *Ulutas Med J.* 2020;6(2):74-79.
20. Gonçalves G, Karim HMR, Esquinas AM. Is intraoperative low tidal volume ventilation worse in patients with preexisting systemic inflammatory response? Our insights to Chugh et al. study. *J Anaesthesiol Clin Pharmacol.* 2020 Apr-Jun;36(2):271-272. doi: 10.4103/joacp.JOACP\_89\_20. Epub 2020 Jun 15. PMID: 33013049; PMCID: PMC7480316.
21. Mistry T, Reazaul Karim HM. An online survey on practice and opinion on preoperative viral serology testing among anesthesiologists, surgeons, and public health professionals. *Acta Med Int* 2020;7:31-8
22. Bhakta P, Karim HMR, O'Brien B, Esquinas A. Letter to the editor: Aeration changes induced by high flow nasal cannula are more homogeneous than those generated by non-invasive ventilation in healthy subjects. *J Crit Care.* 2020 Jun;57:275-276. doi: 10.1016/j.jcrc.2019.10.007. Epub 2019 Nov 14. PMID: 31757577.
23. Bhakta P, Karim HM, O'Brien B, Mitra JK. The effects of fascial plane blocks on chronic pain following cesarean section – too early for certainty? Our analysis of the study by Bory's et al. *Anaesthesiol Intensive Ther.* 2020. doi:10.5114/ait.2020.93396
24. Karim HM, Panda CK. In response to the comment on too much of anything is bad: An unusual case of a stuck endotracheal tube with deflated cuff. *Saudi J Anaesth*2020;14:283-4.
25. Karim HM. Propofol-Based total intravenous anesthesia reduces prolonged extubation as compared to desflurane-based anesthesia: A few more facts are required. *J Med Sci.*2020;40(2):99-100.
26. Bhakta P, Karim HM, Mandal M et al. Mortality benefit shock index in prehospital level care: Our reply to Jouffroy R et al. *Am J Emerg Med.*2020:S0735-6757(20)30184-4.
27. Esquinas AM, Karim HM. To: Efficacy and safety of high-flow nasal cannula oxygen therapy in moderate acute hypercapnic respiratory failure. *Rev Bras Ter Intensiva.*2020;32(1):163-164.
28. Sinha M, Kumar M, Karim HM. Online survey about anesthesia-related practice and patient safety in Indian hospitals. *J Healthcare Qual Res.*2020;35(3):149-157.
29. Karim HM, Bhakta P. Attribution of Delayed Poor Lung Function to Desflurane-Based Balanced Anaesthesia Might be Inappropriate: Our Reply to Sharma et al.'s Article. *Turk J Anaesthesiol Reanim.*2020: Epub-ahead-of-print.
30. Arora P, Karim HM, Singha SK et al. Lesson learned from an in-situ tube thoracostomy in postoperative congenital diaphragmatic hernia repair: Even an open pneumothorax can be catastrophic. *J PediatrEmerg Intensive Care Med.*2020;(7):144-147.
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59. Sahoo RK, Jadon A, Dey S, Surange P. COVID-19 and its impact on pain management practices: A nation-wide survey of Indian pain physicians. Indian J Anaesth 2020;64:1067-73
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## Book chapters

1. Karim HM, Oks M, Singh A. Noninvasive Ventilation in Postoperative Patients. In Esquinas AM (editor). Noninvasive Ventilation in Sleep Medicine and Pulmonary Critical Care: Critical Analysis of 2018-19 Clinical Trials. Switzerland: Springer International Publishing; 2020:377-382.
2. Panda CK, Karim HM. Nutrition in Critically Ill Patients on Noninvasive Ventilation. In Esquinas AM (editor). Noninvasive Ventilation in Sleep Medicine and Pulmonary Critical Care: Critical Analysis of 2018-19 Clinical Trials. Switzerland: Springer International Publishing; 2020:433-437.
3. Singha SK, Karim HM, Calandra C. Role of Sedation and Analgesia During Noninvasive Ventilation. In Esquinas AM (editor). Noninvasive Ventilation in Sleep Medicine and Pulmonary Critical Care: Critical Analysis of 2018-19 Clinical Trials. Switzerland: Springer International Publishing; 2020:411-417.

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Dr. Subrata Kumar Singha

- Trainer, CG State, Emergency Medicine
- Thesis Evaluator, MD (Anesthesiology), PGIMER, Chandigarh & Other Universities of Odisha
- Central Zone Member, College of Neurocritical Care
- Vice President, ISA CG State Branch

### Dr. Habib Md Rezaul Karim

- Best Editor Award 2021 (for Indian Journal of Clinical Anaesthesia) by IESRF Trust, New Delhi
- Working as Associate Editor of BMC Anaesthesiology published by Springer Nature.
- Working as Board Professor for Summer School of NIV under the banner of International Association for Noninvasive Ventilation.
- Has received copyright for Perioperative Anaesthesia Data Management Software from Copyright Office, Government of India
- Has developed (team member) and applied for patent for 'My cool PPE'

### Dr. Mamta Sinha

- Accomplished dedicated training as Basic Cardiopulmonary Life Support (BCLS) Instructor in accordance with Indian Resuscitation Council Cardiopulmonary Resuscitation (CPR) Guidelines on 14.03.2021.
- Participated in Kochi Advanced Airway Management on 11.01.2021
- Participated in Ganga Anaesthesia Refresher Course (Virtual) on 12-13.12.2020 organized by Ganga Hospital.

### Dr. Mayank Kumar

- Accomplished dedicated training as Basic Cardiopulmonary Life Support (BCLS) Instructor in accordance with current Indian Resuscitation Council Cardiopulmonary Resuscitation (CPR) Guidelines on 14.03.2021.
- Participated in Kochi Advanced Airway Management on 11.01.2021
- Participated in Ganga Anaesthesia Refresher Course (Virtual) on 12-13.12.2020 organized by Ganga Hospital.

### Dr. Samarit Dey

- Mentor for PDCC –Pain & palliative care ,Departemnt of Anaesthesiology.( 2 seats)
- Associate editor – journal of recent advances in Pain

## 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

#### The following COVID-19 prophylactic and supportive cares were introduced by AYUSH:-

##### **Ayurveda :**

- On the wake of Covid-19 Pandemic, Ayurveda Tele OPD service was started in Ayurveda from June 2020 once a week.

##### **Yoga :**

- Jala neti (Yogic nasal lavage) as a nasopharyngeal hygienic procedure training was given to the staff and frontline workers of AIIMS, Raipur.
- A bed side Yoga protocol was developed to improve general health and reduce stress and provided to patients with mild COVID-19 symptoms admitted in AIIMS Raipur.

##### **Unani :**

- COVID-19 Prophylactic Unani medicine like AYUSH Joshanda and Khameera Marwareed were distributed to all staff and frontline workers of AIIMS, Raipur. A retrospective study was also

conducted to collect data in respect of efficacy and safety of above drugs during COVID-19 outbreak.

- On the wake of Covid-19 Pandemic, Unani Tele OPD service was started in Unani from June 2020 once a week.

##### **Siddha :**

- COVID-19 Prophylactic Siddha medicine Kabasura kudineer was distributed to all staff and frontline workers of AIIMS, Raipur

##### **Homeopathy :**

- COVID-19 Prophylactic Homoeopathy medicine like Arsenic album 30 was distributed to all staff and frontline workers of AIIMS, Raipur
- On the wake of Covid-19 Pandemic, Homoeopathy Tele OPD service was started in Homoeopathy from June 2020 once a week.

#### The following MOUs were signed by AYUSH, AIIMS, Raipur in 2020-21

**Yoga :** MoU was signed between AIIMS, Raipur and Central Council for Research in Yoga & Naturopathy (CCRYN), New Delhi for establishing Centre for Mind Body Medicine at AIIMS, Raipur with the research funding of 2.5 Crores for the period of 5 years.

**Unani :** MoU was signed between AIIMS, Raipur and National Institute of Unani Medicine (NIUM), Bangalore for collaboration in the field of research, medical education and patient care for duration of 5 years.

**Siddha :** MoU was signed between AIIMS, Raipur and National Institute of Siddha (NIS), Chennai for collaboration in the field of research, medical education and patient care for duration of 5 years.

**Homeopathy :** MoU was signed between AIIMS, Raipur and National Institute of Homoeopathy (NIH), Kolkata for collaboration in the field of research, medical education and patient care for duration of 5 years.

## Collaborative Projects

### Ongoing

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

## PUBLICATIONS

- Mastan A.** Anti-fungal potency of some unani drugs in the treatment of dermatophytoses (Qūba). TMR Integrative Medicine. 2021;5:e21004.
- Mastan A.** A systemic review on vitiligo (baraṣ) & role of Unani medicines towards its treatment. TMR Integrative Medicine. 2021;5:e21002.
- Mastan A.** Historical overview of pulse examination and easy interpretation of pulse (Nabz) through Unani metaphysics. Heart Views 2020;21:310-6.
- Mastan A, Tripathi A, Rai SK, Venkatachalam L, Pai V.** Emergence of Severe Acute Respiratory Syndrome (SARS) COVID-19 and approach of AYUSH systems of medicine towards its prevention and management. Indian Journal of Traditional Knowledge. 2020; 19(28):S 95-S 102.
- Mastan A.** Urticaria (Sharā) with Reference to Unani and Modern Medicine Concept: An Overview. Journal of AYUSH. 2020;9(3): 42-47.
- Mastan A.** Reverse Pharmacology: A Gateway to Validation of Efficacy of Natural Drugs. Journal of AYUSH. 2020;9(3): 48-53.
- Mastan A.** Reverse Pharmacology: A Gateway to Validation of Efficacy of Natural Drugs. Journal of AYUSH. 2020;9(3): 48-53.
- Mastan A.** Clinical Cure from Qūba (Dermatophytoses) Through Unani Medicine: A Comparative Study. International Journal of Ayurveda & Alternative Medicine. 2020;8(3): 123-127.
- Mastan A.** Evaluation of mycological cure of Unani medicine vs modern medicine: A comparative clinical trial. Journal of Ayurvedic & Herbal Medicine. 2020;6(3): 108-110.
- Mastan A.** A review on eczema (Nār fārsī) and reported Unani drugs for its treatment. TMR Integrative Medicine. 2020;4:e20024.
- Mastan A.** Temperament of Unani Compound Formulations: A Descriptive Study. World Journal of Pharmacy and Pharmaceutical Sciences. 2020;10(2): 1289-1309.
- Mastan A.** Incredible health benefits of Adusa (Adhatoda vasica). International Journal of Unani & Integrative Medicine. 2020;4(3): 27-30.
- Mastan A.** Clinical studies on the treatment of psoriasis in Unani system of medicine: A systemic review. Journal of Herbal Drugs. 2020;10(4): 147-153.
- Mastan A.** Effectiveness of treatment of acne vulgaris (Busūr labaniyya): A comparative review between modern and unani medicine. International Journal of Unani & Integrative Medicine. 2020;4(3): 01-04.
- Mastan A, Tripathi A, Rai SK, Venkatachalam L, Pai V.** Pharmacovigilance: An Approach Towards Safety Of AYUSH Drugs. World Journal of Pharmacy and Pharmaceutical Sciences. 2020;9(9): 1189-1197.



## PARTICIPATION IN NATIONAL & INTERNATIONAL CONFERENCES/WEBINARS

S. No.	Name of the Participant	Nature of Participation	CME/Conference	Date
1.	<b>Dr. Sunil Kumar Rai</b>	Resource person & speaker	Ayurveda Health related program telecasted on Doordarshan at DD Kendra, Raipur	12.05.2020
2.	<b>Dr. Ashutosh Tripathi</b>	Speaker	Online Webinar on 'One Sided Diseases And Local Diseases: An Overview' organized by Homoeopathy 360	20.06.2020



Prof. (Dr.) Nitin M. Nagarkar, Director, AIIMS signing MoU with CCRYN, New Delhi



Celebrating Siddha Day in AIIMS, Raipur

## Department of Biochemistry

### Professor & Head

Dr. Eli Mohapatra

### Additional Professor

Dr. Rachita Nanda

### Associate Professors

Dr. Suprava Patel

Dr. Jessy Abraham

### Assistant Professors

Dr. Seema Shah

Dr. Dablu Lal Gupta

## HIGHLIGHTS

The Department of Biochemistry collaborated with the Department of Microbiology in hands-on training to the Doctors and technicians of different medical colleges and hospitals of the state to set up a new RT

PCR Lab.

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

## EDUCATION

In order not to affect Undergraduate teaching, the department started immediately with online classes. Gradually, the Post graduate teaching Seminar and Journal club too had it online. Online classes for MBBS, BSc Nursing, BSc MLT, BSc OT Technician batches are being conducted.

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

Dr. Eli Mohapatra

S. No.	Title	CME/Conference	Date	Organised By
1.	Regenerative Sciences	4 <sup>th</sup> Biennial International ISCSGCON 2021 & CME	13th 14th February 2021	Indian Stem Cell Study Group Association & AIIMS, Raipur
2.	Therapeutic Drug Monitoring	AMBI-ON 2020 National Postgraduate Update cum CME	1 <sup>st</sup> – 2 <sup>nd</sup> November, 2020	Department of Biochemistry Government Medical College & Hospital, Chandigarh & AIIMS, Raipur

**Dr. Rachita Nanda**

S. No.	Title	CME/Conference	Date	Organised By
1.	Online Certificate Course on	Online Certificate Course	22 <sup>nd</sup> June – 20 <sup>th</sup> July 2020	AIIMS, Raipur
2.	Thyroid function tests- Interpretations	AMBI-ON 2020 National Postgraduate Update cum CME	1 <sup>st</sup> – 2 <sup>nd</sup> November, 2020	Department of Biochemistry Government Medical College & Hospital, Chandigarh

## RESEARCH Funded Projects Ongoing

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	5,00,000/-
2.	A Pilot study of ACE (D/I) Gene Polymorphism in COVID-19 Positive Patients and their Healthy Contacts	Dr. Eli Mohapatra	CGCoST, Raipur	01 year	2021	4,40,000/-
3.	T Cell and Cytokine Profile in Sickle Cell Disorder in Predicting Clinical Outcome	Dr. Suprava Patel	AIIMS, Raipur	01 year	2020	5,00,000/-
4.	Evaluate Plasma Circulating Tumor Cells and DNA to Monitor Breast Cancer Therapy	Dr. Jessy Abraham	AIIMS Raipur		2018	5,00,000/-

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
5.	Assessment of Plasma Free DNA Integrity as Potential Independent Prognostic Markers for Head and Neck Squamous Cell Cancers	Dr. Jessy Abraham	CGCOST	2 years	2018 -2020	4,95,680/-

## Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Reference Interval of Thyroid Hormones in the First Trimester of Pregnancy	Dr. Rachita Nanda	CGCOST	03 years	2018-2021	5,00,000/-
2.	Prevalence of MTHFR Polymorphism and Its Impact in Patients of Sickle Cell Disease and	Dr. Suprava Patel	CGCOST	2 years	2017- 2021	5,00,000/-

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

S. No.	Projects
1.	Perception of MBBS Students and Faculty Members about Live-Streamed Lectures
2.	Early Biomarkers in Predicting the Clinical outcome in COVID-19 Patients
3.	Biochemical Pattern of Chronic Kidney Disease of Unknown Origin in Central India
4.	Effect of Serum Protein in Estimation of Electrolytes by Direct and Indirect ion Selective Electrode
5.	Seasonal Variation of Vitamin-D in Patients of Chhattisgarh
6.	Is Vitamin-B12 Deficiency-an Independent Accomplice of Clinical Severity in COVID-19
7.	Impact of COVID-19 on Thyroid Hormones in Indian Population
8.	Association between FTO A/T 9 (rs9939609) Polymorphism and Metabolic Syndrome. (Guide: Dr.Eli Mohapatra)
9.	The Impact of A1298C SNP in MTHFR Gene on Levels of Tetrahydrobiopterin and Nitric Oxide in Patients with Sickle Cell Disorders. (Guide- Dr.Eli Mohapatra)
10.	Correlation of Th17 Cells and Cytokines with Disease Activity in Systemic Lupus Erythematosus (Guide: Dr.Rachita Nanda)
11.	Circulating cell free mtDNA as a Biomarker in Gestational Diabetes Mellitus (Guide-Dr. Jessy Abraham)
12.	Effect of Unmetabolized Folic Acid on Immunoinflammatory Markers in Sickle Cell Disease Patients taking Folic Acid Supplementation. ( Guide: Dr. Suprava Patel)

## Completed

S. No.	Projects
1.	ANA-IIF analysis in a tertiary care Centre of Central India

## 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	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.	Reference Interval of Thyroid Hormones in the First Trimester of Pregnancy	Department of Biochemistry, AIIMS, Raipur
5.	Prevalence of Congenital Hypothyroidism and G-6PD Deficiency in Newborns – Pilot Study in a Tertiary Hospital in Chhattisgarh	Department of Biochemistry AIIMS, Raipur
6.	Association of Apolipoprotein A1 Polymorphism (G-75A and C+83T) in Patients with Diabetic Foot Ulcers	Department of Biochemistry, AIIMS, Raipur
7.	Serum 25 Dihydroxy Vitamin D3 Level Estimation and Insulin Resistance in Women of 18-40 years Age Group with Polycystic Ovarian Syndrome.	Department of OB-GYN AIIMS, Raipur
8.	Association of Serum Vitamin-D Status with Somatic and Autonomic Neuropathy in Pre-Diabetics	Department of Physiology AIIMS, Raipur
9.	Therapeutic Efficacy of a Yoga on Biochemical Profile, Anxiety and Sleep Quality Index of Asthmatics: A Randomized Controlled Trial-Pilot Project	Department of Pulmonary Medicine AIIMS, Raipur
10.	Study of Emerging Biomarker of Renal injury in Acute Kidney injury in Term Neonates with Perinatal Asphyxia – A Nested Case Control Study	Department of Paediatrics , AIIMS, Raipur
11.	T Cell and Cytokine Profile in Sickle Cell Disorder in Predicting Clinical Outcome	Department of Biochemistry, AIIMS, Raipur

S. No.	Project	Collaborating Department/Institution
12.	Correlation Study of Endothelial Function & Biomarkers in Patients of Sickle Cell Anemia at Chhattisgarh	Department of Physiology, AIIMS, Raipur
13.	Estimation of Plasma Interleukin -33 Level in Sickle Cell Disease Patients with Hip Osteonecrosis	Department of Orthopedics, AIIMS, Raipur
14.	To analyze the erythrocyte and platelet storage lesions within the stored blood by their biochemical parameters and microvesicle quantification and estimate coagulopathy potential of Blood transfusion to the multi-transfused patients	Department of Transfusion Medicine, AIIMS, Raipur
15.	A Clinical and Epidemiological Profile of Patients with Chronic Kidney Disease of Unknown Etiology Attending AIIMS, Raipur CG	Department of Nephrology, AIIMS, Raipur
16.	Study of Emerging Biomarker of Renal Injury in Acute Kidney Injury in Term Neonates with Perinatal Asphyxia – A Nested Case Control	Paediatrics , AIIMS Raipur

## PUBLICATIONS

- Mohapatra E, Priya R, Nanda R, Patel S. Serum GGT and serum ferritin as early markers for metabolic syndrome. J Family Med Prim Care [serial online] 2020 [cited 2020 Sep 12]; 9:3458-66. <http://www.jfmpc.com/text.asp?2020/9/7/3458/290838>
- 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):2021
- Nanda R, Gupta P, Patel S, Shah S, Mohapatra E. Uncommon antinuclear antibody patterns as diagnostic indicators. Clin Biochem, 2021;90:28-33.
- 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).
- 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 Prim Care, 2021;10:496-501.
- 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 Neonatal, Mar 2021.
- Priya R, Patel S, Dubey SS, Nanda R, Mohapatra E. Association of Thyroid Function with Body Mass Index in Adolescent Girls, Ind J Med Biochem, 2020;24(2):55-58.
- Patel S, Padhi P, Priya R, Naik T, Abraham J, Nanda R, Mohapatra E, Agrawal S. A cross-sectional study on Parental Awareness for Newborn Screening and Assessment of Burden of Congenital Hypothyroidism and G6PD Deficiency. Ind J Comm Fam Med, 2020;9:3548-63.
- Gupta P, Priya R, Nanda R, Patel S, Mohapatra E. A Hospital-Based Insight into the Antinuclear Antibody Patterns in Autoimmune Disorders. J Lab Phys, 2020; 12(2): 115-120.
- Gupta P, Pratistha A, Verma NR, Shah S, Patel S, Nanda R, Mohapatra E. Antinuclear antibody profiling in patients of a tertiary care centre in Central India. Ind J Clin Biochem, Sept 2020.
- Shah, S, Jondhale S, Nanda R, Patel S, Mohapatra E, Goel A. Sickle Cell Trait Presenting as Chronic Calcific Pancreatitis with Pseudocyst- A Case

- Report. Ind J Clin Biochem, July 2020.
12. Patel S, Nanda R, Hussain N, Mohapatra E, Patra P.K. Frequency distribution of the methylenetetrahydrofolate reductase polymorphisms in sickle cell hemoglobinopathy- A hospital-based study in central India. Clin Epid Glob Health, 2020;10:100669.
  13. Venkatesan N, Nanda R, Patel S, Mohapatra E. Impact of sleep patterns on glycemic levels in healthy young adults. J Evol Med Dent Sci, 2020;9(47):3533-3537.
  14. Shah S, Akhade K, Ganguly Si, Nanda R, Mohapatra E, Goel A K. Cutaneous manifestations associated with COVID-19 in children: A systematic review. J Family Med Prim Care 2021;10: 93-101
  15. "Shah S, Goel AK. Community participation leads the road to epidemic free country. J Family Med Prim Care 2020;9:5389-90"
  16. "Goel AK, Shah S. Hyperglycemia: An independent accompaniment of COVID -19. J Family Med Prim Care 2021;10:583"
  17. "Jondhale, S., Tiwari, K., Jain, R., Gupta, R. K., Shah, S., & Goel, A. K. (2020). Pulmonary Langerhans cell histiocytosis presenting as skin lesion in a young child exposed to chronic passive smoking: A case report. Indian Journal of Child Health, 7 ( 5 ), 2 3 9 2 4 1 . <https://doi.org/https://doi.org/10.32677/IJCH.2020.v07.i05.013>"
  18. Gupta DL, Tiwari S, Sinha TP, Soni KD, Galwnkar S, Kumar S, Rao DN, Bhoi S. "Estrogen as a safe therapeutic adjunct in reducing the inflammatory storm in trauma hemorrhagic shock patients" Shock. 2021 Mar 31. doi: 10.1097/SHK.0000000000001779.

### Edited book

S. No.	Author(s)	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	7th	Raipur	Dept. of Biochemistry	2021

### PATIENT CARE

Services	OPD	IPD	Special Clinic	Emergency
<b>Total</b>	<b>518286</b>	<b>421129</b>	<b>2473</b>	<b>212315</b>

### AWARDS, HONOURS AND SIGNIFICANT EVENTS

#### Dr. Eli Mohapatra

1. Nominated as subject expert in selection committee for recruitment against faculty post at AIIMS, Bibinagar from 20th Nov to 22nd Nov 2020
2. Nominated as an external member of board of study at AIIMS, Nagpur
3. Nominated by Medical Council of India for conducting an assessment of type Starting of New Course u/s 10(A) and null for MD- Biochemistry course (Member since 2018)
4. Nominated by Medical Council of India as assessor for UG course

#### Dr. Rachita Nanda

1. Member of core committee for setting up COVID-19 laboratories at various medical colleges in Chhattisgarh
2. Nominated by Medical Council of India as assessor for PG course.

## DEPARTMENT OF BURNS & PLASTIC SURGERY

### Assistant Professor & In-charge

Dr. Jiten Kumar Mishra

### Assistant Professors

Dr. Shamendra Anand Sahu

Dr. Moumita De

Dr. Kuldeep Sharma (From 01.12.2020 to 22.03.2021)

Dr. Neeraj Sharma (From 29.10.2020 to 30.01.2021)

### HIGHLIGHTS

The Department is dedicated to patient care and is involved in innovation and research. Major reconstructive surgeries to restore form and function after head and neck malignancy extirpation are routinely done in collaboration with the Department of ENT and Head Neck Surgery. The Department contributed significantly to the reconstruction of defects and deformities due to malignancy, congenital or acquired as referred from other surgical departments or as a part of the team in collaboration with the other surgical departments. Major limb defects reconstruction are done in limb trauma cases by the department and in collaboration with the Orthopedics, department to restore the form and function of the limbs. Last year, three patients with Mullerian agenesis were operated & vaginal reconstruction was done with the Gynecology team to restore female genitalia and their function. In collaboration with general surgery and Pediatric Surgery department, complicated wound management and reconstruction are routinely done. Major chest wall reconstruction surgeries were done for thoracic tumor resection defects in collaboration with the CTVS department.

Reconstruction of wide range of the congenital and acquired defects and deformity of the body are being undertaken routinely. Skin and soft tissue malignancies are treated by tumor excision followed

by reconstruction. Microsurgical procedures like free tissue transfer; repair of nerve and vessel injuries, Brachial Plexus Surgery and creation of AV fistula in chronic renal disease patients are being routinely done. Corrective surgeries and rehabilitation of post burn deformity, post burn scarring and post leprosy limb deformity are done. Pediatric Congenital anomalies like syndactyly, polydactyly, hypospadias, cleft lip-palate, club hand is routinely being corrected. Aesthetic Surgeries like breast reduction, gynecomastia correction, and scar revision are being routinely done. Minor surgical procedure room has been set up in the outpatient department; where procedures like scar revision, benign skin and adnexal tumor excision, skin grafting, finger and hand injury management are being done on day care basis routinely.

Despite the constrained situation due to the ongoing pandemic, the Department has managed to do 29 major cancer reconstruction surgeries in head and neck cancer cases in last one year. A total of 172 major and 51 minor surgeries were done since the first national lockdown was announced last year.

Establishment of a dedicated 12 bedded Burn unit with state-of-the-art facilities, HDU and dedicated Burn OT has been approved for care of acute burn patients.



## EDUCATION

1. Teaching and training of Post graduate residents of General Surgery, posted to the Department on rotation basis.
2. Teaching of the Junior & Senior Residents from different surgical Departments with whom the reconstructive surgeries are undertaken in collaboration.
3. Teaching of paramedical staffs and Pre-Trauma Technician trainees (PTT) Admission for One M.Ch. Superspecialist seat per session has been approved from July 2020 Onwards.

## RESEARCH

### Collaborative Projects

#### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Postoperative Non-Invasive Monitoring Device For Microvascular Free Flaps In Microsurgical Reconstruction Head And Neck Tumour	Department of ENT & Head Neck Surgery, AIIMS, Raipur

#### Completed

S. No.	Project	Collaborating Department/Institution
1.	Situational Analysis of Burns	Department of Plastic, Reconstructive and Burns Surgery, AIIMS, New Delhi

## PUBLICATIONS

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. Parija D, Kar BK, Das P, <b>Mishra JK</b>, Agrawal AC, Yadav SK. Septic arthritis of knee due to Burkholderia pseudomallei: a case report. Tropical Doctor. 2020;50(3):254-257.</li> <li>2. Nayak PK, Narayan C, Bagde N, <b>Mishra JK</b>. Vaginal Atresia-One Amongst the</li> </ol> | <p>Manifestations of Rare Charge Syndrome. Indian Journal of Obstetrics &amp; Gynaecology. 2020;8(3):188-191</p> <ol style="list-style-type: none"> <li>3. Agarwal R, Jondhale S, <b>Sahu, SA</b>, Bugalia, A, Goel, A. MALToma of minor Salivary gland of lip in a young girl: A case report. Authorea 2020. June</li> </ol> |
|--|---|

## PATIENT CARE

FY 2020-21	OPD	IPD	Major OT	Minor OT	Special Clinics (Onco-reconstruction)	Or any other facility (Dressing Room)
<b>Total</b>	2110	97	172	51	29	876

### Special Services:

1. Dedicated Cleft lip & Cleft palate clinic on every Monday 2-4 PM for management of patient with cleft lip and palate deformity.
2. All kinds of microsurgery including free tissue transfer in onco-reconstruction, Brachial plexus and peripheral nerve surgeries are being done for which patients were previously being referred to centers in other states.
3. Facility for minor surgeries have started in the Minor procedure room in the Outpatient Clinic since 1<sup>st</sup> January, 2021.
4. Good amount of collaborative reconstructive surgical work is being done with other departments like Orthopedics, General Surgery, CTVS, Pediatric surgery, Gynecology and Neurosurgery.

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### **Dr. Jiten Kumar Mishra**

- Chaired a session in 4th Biennial ISCSGCON 2021 & CME on Regenerative Sciences of Indian Stem Cell Study Group Association, organized at AIIMS, Raipur, held on 13/02/2021 & 14/02/2021
- On line Certificate course on Medical Education Technologies from 22.06.2020-20.07.2021 conducted by AIIMS Raipur

### **Dr. Shamendra Anand Sahu**

- Chaired a session in 4th Biennial ISCSGCON 2021 & CME on Regenerative Sciences of Indian Stem Cell Study Group Association, organized at AIIMS, Raipur, held on 13/02/2021 & 14/02/2021
- On line Certificate course on Medical Education Technologies from 22.06.2020-20.07.2021 conducted by AIIMS Raipur

### **Dr. Moumita De**

- Chaired a session in 4th Biennial ISCSGCON 2021 & CME on Regenerative Sciences of Indian Stem Cell Study Group Association, organized at AIIMS, Raipur, held on 13/02/2021 & 14/02/2021

## Department of Cardiology

### Assistant Professor & In-charge

Dr. Satyajit Singh

### Assistant Professor

Dr. Mukesh Kumar Yadav (Till-15.10.2020)

## HIGHLIGHTS

The Department of Cardiology provided 7303 OPD consultations in the year 2020-21 (April 1, 2020 – March 31, 2021). In the current financial year, 236 invasive cardiac procedures were performed in cardiac catheterization lab (202 coronary angiographies ,33 coronary angioplasties and stenting&cath study) . Apart from this ,10 emergency pericardiocentesis were done in patients of massive

pericardial effusion with tamponade physiology. In the non-invasive lab, 4716ECG ,08 exercise stress test , 2975 echocardiographic studies , 03 transesophageal echocardiographic studies were conducted. Apart from the routine clinical work, the faculties and the residents of the department rendered their clinical services in COVID –ICU.

## EDUCATION

The department of Cardiology is actively involved in imparting problem based and case based learning to post-graduates of our institute. Clinical teaching is imparted in the OPD, IPD , non-invasive and invasive lab. 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. The academic junior residents pursuing post-graduation in Department of Radiodiagnosis and Department of General Medicine were given basic echocardiographic training.The Department of Cardiology got approval from Institute's Academic Council for starting PDCC (Cardiac Critical Care) programme in January 2021. DM (Cardiology) programme – a 3-year course was initiated from September, 2020 with an annual intake of 2 students.

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Satyajit Singh

S. No.	Title	CME/Conference	Date	Organised By
1.	Introduction to the Department of Cardiac Sciences at AIIMS Raipur and scope for future collaboration with AIIMS and other institutions	Cardiovascular Research Convergence(CRC)-2021: A3 – All AIIMS Alliance	10.04.2021	HYBRID MEET New Delhi (Talk delivered live from Cardiology Department of AIIMS Raipur)

## RESEARCH Non-Funded Projects

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 micro-albuminuria

## Collaborative Projects Non-Funded Projects

S. No.	Project	Collaborating Department / Institution
1.	Role of stress-SPECT and PET-CT in assessment of viability in delayed presenters of MI with LV dysfunction (Ongoing)	Nuclear Medicine
2.	Study of coronary collaterals by Coronary angiography in patients with CAD and its impact on LV function (Completed)	Anatomy
3.	Influence of various body composition parameters on exercise performance in obese adult males with special reference to echocardiographically determined epicardial fat thickness (Completed)	Physiology
4.	Delayed gadolinium enhancement scar pattern in cardiac MRI in patients with Non-ischemic Cardiomyopathies (Completed)	Radiodiagnosis
5.	Assessment of RVEF by First pass radionuclide ventriculography and its comparison with echocardiography determined surrogate markers of Right ventricular function in patients with dilated cardiomyopathy (Ongoing)	Nuclear Medicine

## PUBLICATIONS

- Singh S, Yadav MK (2021). Extensive Myocardial Calcification mimicking giant honey-bee associated with cardiac hydatid cyst. Int J Cardiovasc Imaging. 2021Jan;37(1) : 163-164.
- Singh S, Thakur C, Kumar M, Sethi S, Kashyap N (2021). A Large Left atrial Myxoma presenting as 'Positional Pre-syncope'. Clin Med Img Lib 7:164. Doi.org/10.23937/2474-3682/1510164
- Singh S, Thakur C, Kumar M, Jain M, Agrawal V (2021). Atrial septal aneurysm associated with mitral valve prolapse syndrome. Clin Med Img Lib 7:167. doi.org/10.23937/2474-3682/1510167; published: February 05, 2021
- Kaushik A, Singh S, Yadav M, Patel S. An unusual presentation of chronic eosinophilic leukaemia as pulmonary arterial hypertension-A case report. SJC 2020;1(2):40-42 DOI:doi.org/10.46978/sjc.20.1.2.7
- Balpande NN, Singh S and Bodhey NK. Accessory Left circumflex arising from left coronary sinus. Ann Cardiol Cardiovasc Med. 2020; 4(2): 1039

## PATIENT CARE

1. The department of Cardiology has 30 bedded indoor facility in 3<sup>rd</sup> floor of block B 1 of AIIMS Raipur hospital building. It has 10 bedded Coronary care unit (CCU) with state of the art central monitoring system in 4<sup>th</sup> floor of C block, and 4 bedded high dependency unit (HDU). Patients of myocardial infarction, heart failure, cardiomyopathies, valvular heart disease, atrial and ventricular arrhythmias , pericardial diseases , and cardiac masses are admitted and managed.
2. The Department of Cardiology has state of the art – Cardiac catheterization lab in the 4<sup>th</sup> floor of C block of hospital building where invasive cardiac procedures (diagnostic and therapeutic) are carried out.
3. The department has state of the art real-time 3D echocardiography with speckle tracking imaging and tissue doppler imaging (TDI).
4. The non-invasive lab has MEDILOG Darwin Holter monitoring system and 24 hour Ambulatory blood pressure monitoring system (ABPM).

Total OPD consultations / IPD	7303 / 223
ECG done in Non-invasive Lab	4716
Echocardiography	2975
Transesophageal echocardiography	03
Exercise TMT	08
Holter	03
Emergency Pericardiocentesis	10
Coronary Angiography	202
Coronary Angioplasty+Stenting	33
Cath Study	01

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Dr. Satyajit Singh

became professional plus member of European society of Cardiology. He was invited as a faculty and chairperson in the 52<sup>nd</sup> Annual conference of the society of Nuclear Medicine, India.

He was also appointed as a member of the technical expert committee by Controller, Medical Education, Government of Chhattisgarh for preparation technical specifications of cardiac devices and implants to be procured by Chhattisgarh Medical Services Corporation limited for their upcoming Advanced Cardiac Institute (ACI), Pt. JNM Medical College, Raipur.

## DEPARTMENT OF CARDIOTHORACIC AND VASCULAR SURGERY

### Associate Professor & In-charge

Dr. Nitin Kumar Kashyap

### Assistant Professors

Dr. Preetam Sahani

Dr. Klein Dantis

Dr. Pranay Mehra

Dr. G. Surabh

### HIGHLIGHTS

Department of Cardiovascular and Vascular 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 tumour resection. Vascular Surgeries- aneurysmal repair, bypass grafting, AV fistula construction, emergency embolectomy. The Department has started uniportal Video-Assisted Thoracoscopic Surgery for

inflammatory as well as in Cancer cases. The Department is also providing special emergency services, particularly for Thoracic and Vascular trauma cases. Department is soon starting with minimal invasive cardiothoracic surgeries, RFA ablation procedures. The Department has a dedicated 4 bedded fully equipped step-down ICU with 25 bedded CTVS ward and one isolation room facility for the patient. The Department has started high end, fully equipped, dedicated high-end CTVS ICU facility in the 4<sup>th</sup> floor C block.

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

#### Dr. Nitin Kumar Kashyap

S. No.	Title	CME/Conference	Date	Organised By
1.	Role of point of care USG in Emergency	Trauma & Emergency -CME2020	28.10.2020	Ramakrishna Care Hospital, Raipur
2.	Peripheral Vascular Disease -Its Management	Vascular Update-CG Chapter 2021	13.01.2021	Government Medical College, Raipur
3.	Complication in CPB	Cardiac Scientific Session-CG Cardiac Surgery Summit	14.03.2021	Ramakrishna Care Hospital, Raipur

## 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 System with Non-Conventional Drainage in the Management of Cardiac Surgery Patients	Dr. Nitin Kashyap	AIIMS, Raipur	1 year	2021-2022	5,00,000 /-
2.	To Study the Efficacy of U-VATS in the Management of ILD	Dr. Klein Dantis	AIIMS, Raipur	1 year	2021-2022	4,90,000/-

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

#### Ongoing

S. No.	Projects
1.	Predictors of Low cardiac output after Mitral valve replacement surgery
2.	<b>Thesis</b> To evaluate the efficacy of digital drainage system in patients of pneumothorax following Chest Trauma

#### Collaborative Projects

#### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Uniportal VATS in the Management of Chronic Empyema	Pulmonary Medicine, Pediatric Surgery
2.	Surgical outcomes in Patients with CKD and Chronic Empyema	Pulmonary Medicine, Medical Oncology and Nephrology
3.	Assessment of Percentage Body Fat by using Ultrasound Techniques in Adult Indian Males	In collaboration with Department of Physiology as co-investigator

#### Completed

S. No.	Project	Collaborating Department/Institution
1.	A country-level Gap Analysis of the current status of emergency and injury care at secondary and tertiary care centres in India	Department of Emergency Medicine, JPN apex Trauma center, New Delhi

## PUBLICATIONS

1. Singh S,Thakur C, Kumar m, Sethi S,Kashyap N. A large Left Atrial myxoma presenting as positional pre-syncope:Clin Med Img Lib 2021,7:164
2. Wasnik M,Patel M,Chandrakar R,Saurabh L,Sharma KasyapN.Impact of Covid -19 pandemic on blood transfusion services:Strategies to overcome.Indian J Hematol blood transfuse(nov2020036(Suppl):S1-S229
3. Rao S,**Kashyap N**,Panda C,kumar n.Compromised microvascular free flap;salvage using Fogarty vascular catheter thrombectomy.BMJ Case Rep. 2020 Dec 10;13(12):e239251.doi: 10.1136/bcr-2020-239251
4. Dantis K, Kashyap Y, Raju A, Bhardwaj S. Intercostal muscle cavernous haemangioma: A chest wall Pandora's box. Eur J Case Rep Intern Med. 2021; 8(1):002248. PMID:33585348
5. Dantis K, Kashyap Y,Pinto MR, Chandra N.Myths in oncology.Int jour mol and immune onc.2021;1:3.
6. Dantis K, Brahmachari S, Raju A, ShankariS.An innovative technique of chest wall stabilization and reconstruction in traumatic flail chest: The figure of eight suture with polypropylene mesh and musculofascial flap.2021.Chinese Jour of Trau.Doi:10.1016/j.ctjee.2021.04.009. (Pubmed)
7. Magatapalli K, Kashyap N, Dantis K, Sahani P.A maze of pearls in the chest.2021. Ind jour of thor and cardio vas surg.37(3).360-1. PMID:33967434

## PATIENT CARE

We deliver full-time patient care in the Department for all cardiothoracic surgical-related problems with utmost care.The Department is providing all kinds of Adult cardiac surgeries, including Thoracic and Vascular surgeries.

Month	OPD	IPD	Major OT	Minor OT
<b>Total</b>	1873	298	112	49

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

Dr. Nitin Kashyap has been nominated as a member expert in procuring advisory committee from Chhattisgarh health mission for standard technical specification. Formulation.Dr.Nitin Kashyap is appointed in the position of Nationallead Assessor for the country-level assessment of the current status of emergency and injury care at secondaryand tertiary care centers in India. by the JPN Apex Trauma center New Delhi.



## Department of Community & Family Medicine

### Professor and Head

Dr. Manisha Ruikar

### Additional Professors

Dr. Abhiruchi Galhotra

Dr. Gouri Kumari Padhy

### Associate Professors

Dr. Anjali Pal

Dr. Anjan Kumar Giri

### Assistant Professors

Dr. Arvind Kumar Shukla

Dr. Ashish Wasudeo Khobragade

Dr. Amit Kumar Mishra

## HIGHLIGHTS

CFM Department leads the Covid-19 Contact Tracing Team of AIIMS, Raipur to manage the internal outbreak in the Institute.

CFM Department runs the Covid-19 Vaccination Centre of AIIMS Raipur since 16<sup>th</sup> January 2021 for various categories of beneficiaries. During 16<sup>th</sup> January 2021 to 31<sup>st</sup> March 2021, 5398 beneficiaries

received the first dose and 2786 beneficiaries received the second dose of Covid-19 vaccine at the Vaccination Centre.

CFM faculties and residents are coders for the cause of death under Mortality in India Established through Verbal Autopsy (MINErVA) Network.

## 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 Statcraft software training, Statistical modeling and population, Designing and conducting clinical trials, GIS for Health, Public health leadership skills in Covid-19 Era, Statistical techniques for research study tool design, Hands on workshop on Meta-analysis, Measuring and maximizing impact of Covid-19 contact tracing, Competency based medical education in Community Medicine, Optimizing health work force for accelerating UHC in India, Economics of health and health care, Qualitative and mixed methods in health research, Public health approaches to NCDs etc.), by undergoing different academic online courses and by being a reviewer of journals.

One Senior Resident and one Junior Resident were awarded 'Diploma in Psychotropic Medicine' and Diploma in 'Community Mental Health for Doctors' respectively from National Institute of Mental Health and Neuro Sciences, Department of Psychiatry, Bangalore, India.

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

S. No.	Title	Date	Organised By
1.	Online Research Methodology Program for PGJRs of AIIMS Raipur	(i) 01.06.2020 to 09.06.2020 (ii) 01.01.2021 to 09.01.2021	Research Orientation Program Subcommittee of IRC, AIIMS Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Manisha Ruikar

S. No.	Title	CME/Conference	Date	Organised By
1.	Measures of disease frequency	Online Research Methodology Program for PGJRs of AIIMS Raipur	02.06.2020 and 02.01.2021	Institute Research Cell, AIIMS, Raipur
2.	Descriptive study designs		03.06.2020 and 03.01.2021	
3.	Designing data collection tool/CRF		06.06.2020 and 06.01.2021	
4.	How to write thesis synopsis		09.06.2020 and 09.01.2021	

### Dr. Abhiruchi Galhotra

S. No.	Title	CME/Conference	Date	Organised By
1.	CKD- from Detection to Equitable Access to Care	National Conference of Epidemiology Foundation of India	19 - 20.12.2020	AIIMS, Rishikesh
2.	Demography & Ageing Changes	District Level Training of MO	19.03.2021	NHM, Chhattisgarh

**Dr. Gouri Kumari Padhy**

S. No.	Title	CME/Conference	Date	Organised By
1.	Formulation of Research Question, Hypothesis and Objectives	Online Research Methodology Program for PGJRs of AIIMS, Raipur	01.06.2020 and 01.01.2021	Institute Research Cell, AIIMS, Raipur
2.	Experimental Study Designs		04.06.2020 and 05.01.2021	
3.	Errors, Bias, Confounding		05.06.2020 and 06.01.2021 and 05.01.2021	

**Dr. Anjan Kumar Giri**

S. No.	Title	CME/Conference	Date	Organised By
1.	Epidemiology of Tuberculosis (Sensitization of various categories of health care workers)	Update on National TB Elimination Programme	19 <sup>th</sup> -24 <sup>th</sup> March 2021	AIIMS Raipur

**Dr. Arvind Kumar Shukla**

S. No.	Title	CME/Conference	Date	Organised By
1.	Types of data, levels of measurements Types of variables, functional relationships	Online Research methodology Program for PGJRs of AIIMS, Raipur	5 <sup>th</sup> June 2020 and 5 <sup>th</sup> January 2021	Institute Research Cell, AIIMS Raipur
2.	Sample size for various study designs		6 <sup>th</sup> June 2020 and 6 <sup>th</sup> January 2021	

**Dr. Amit Kumar Mishra**

S. No.	Title	CME/Conference	Date	Organised By
1.	Integrated Disease Surveillance Programme (IDSP)	Guest Lecture for M.Sc. students	11 <sup>th</sup> November 2020	Vector Control Research Centre (ICMR), Puducherry
2.	Basic Epidemiology	Expert Lecture Series on Clinical Trials	30 <sup>th</sup> March 2021	Department of Statistics, Kristu Jayanti College, Bengaluru

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	<b>Hannah Jose,</b> Manisha Ruikar, Utsav Raj	Where does India stand in the Integrated Care for Elderly: Challenges and concerns	Amrita International Public Health Conference 2020	4 <sup>th</sup> and 5 <sup>th</sup> December 2020	Amrita Institute of Medical Sciences, Kochi
2.	Giri AK, Ruikar MM, <b>Pathak VK</b>	Methodology of a self sustaining model for prevention of NCDs in parents of school students by BCC intervention through students	IAPSMCON 2021	19 <sup>th</sup> - 21 <sup>st</sup> March 2021	PGIMER, Chandigarh
3.	Rathore V, <b>Galhotra A,</b> Pal Rahul	Community participation regarding CKDs in a remote area of CG	IAPSMCON 2021	19 <sup>th</sup> - 21 <sup>st</sup> March 2021	PGIMER, Chandigarh
4.	Galhotra A, <b>Raj U</b>	Quality of life of people residing near railway tracks in Raipur city	IAPSMCON2021	21 <sup>st</sup> March 2021	PGIMER, Chandigarh
5.	<b>Pal R,</b> Galhotra A	A baseline survey of WASH functionality and availability of MCH facilities at Raipur district, Chhattisgarh	IAPSMCON 2021	20 <sup>th</sup> March 2021	PGIMER, Chandigarh
6.	Padhy GK, <b>Karpaga Priya P</b>	Item analysis of MCQs	Amritacon international conference 2020	5 <sup>th</sup> December 2020	Amrita Institute of Medical Sciences, Kochi
7.	Padhy GK, <b>Karpaga Priya P</b>	Needs and expectations from mentorship programme: Mentee's perspective	IAPSMCON 2021	19 <sup>th</sup> March 2021	PGIMER, Chandigarh
8.	<b>Vineet Kumar Pathak,</b> Anjali Pal	Prevalence of Tobacco consumption and its economic burden among adult males ( $\geq 18$ years) residing in an urban area of Raipur, Chhattisgarh	IAPSMCON2021	19 <sup>th</sup> - 21 <sup>st</sup> March 2021	PGIMER, Chandigarh
9.	<b>Dubey M,</b> Choudhary Y	A study to assess knowledge regarding STIs among college students in Bhopal,	48 <sup>th</sup> Annual National Conference of IAPSM	19 <sup>th</sup> -21 <sup>st</sup> March 2021	PGIMER, Chandigarh

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

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year- End year	Total funds sanctioned (Rs.)
1.	Community Behavior and its Determinants in Relation to Malaria Prevention and Control in Chhattisgarh	Prof.(Dr.) Manisha Ruikar	ICMR	2 Years	Start year - 2021	52,86,120/-
2.	A Multi-Centric, Prospective, Community based Cohort Study to Estimate the Incidence of Dengue Infection in India (INDEN Study)	Prof.(Dr.) Manisha Ruikar	ICMR	2 Years	Start year - 2020	47,02,950/-
3.	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	Start year - 2018	2,55,150/- (Second release of fund) Activity based long term release of funds for years to come
4.	Effect of Lemon Juice in Reducing Blood sugar of Pre-Diabetes and Diabetes Patients: A community based Pragmatic Randomized Trial	Dr. Gouri Kumari Padhy	AIIMS, Raipur	2 Years	2019 to 2021	5,00,000/-
5.	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 continuing	5,00,000/-

## Departmental Projects (including thesis/dissertations)

### Ongoing

S. No.	Projects
1.	Situational analysis of Water, Sanitation and Hygiene in Health Care 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.	Screening for Hypertension and Diabetes among Adults Residing at Urban Field Practice Area of AIIMS, Raipur
4.	Epidemiology of Depression, Anxiety and Stress in Industrial Workers of Raipur District
5.	Prevalence and Determinants of Morbidity among Elderly in an Urban Slum of Raipur City
6.	Assessment of Nutritional Status of 6-23 Months Old Children Residing in an Urban Area of Raipur city
7.	A study to Assess Difference in Medication Adherence with use of Newly Designed Medicine Calendar in Patients with Chronic Diseases: A Non Randomized before and after Trial
8.	Study of Unmet Need for Family Planning in Married Women of Age group 18-49 yrs in urban field Practice Area of AIIMS, Raipur
9.	Prevalence of Health Risk Behavior and Associated Life Skills among 15-19 years of Adolescents in Urban Field Practice Area of AIIMS Raipur
10.	Effect of Health Education Intervention on Reducing Sedentary Screen Time in Children under 5 Years: Cluster Randomized Control Trial
11.	A study of Awareness of Physical Activities and Sedentary Life Style Behavior among Adolescent School going Children in Urban Raipur
12.	Mental Health Status of Food Handler in a Dedicated Covid Hospital
13.	Marital challenges among chronic Hepatitis B cases of central India: A Qualitative Study
14.	Effect of COVID on Mental Health: A Cross Sectional Web-based Study among Post COVID Patients after their Discharge from AIIMS, Raipur, Chhattisgarh
15.	Craze for RO water: Knowledge Attitude and Practice Regarding RO Water among Habitants of Urban Residential Colonies near a Tertiary Hospital in Raipur city
16.	Perception of Final Year Undergraduate Students on their Role in Covid Pandemic- A Web-based Study
17.	Utilization of Maternal and Child Health Services among Women in Urban Slum of Chhattisgarh: A Cross Sectional Study
18.	Evaluating the Barriers and Challenges Faced in PPE use in the COVID-19 Response in Tertiary Care Hospital
19.	Possible Reasons, their Epidemiological Plausibility for Acquiring COVID-19 among Health Care Workers of AIIMS, Raipur- A Mixed Method Approach
20.	Social and Cultural Determinants Involved in Family Planning Practices in Raipur- A Qualitative Study
21.	Prevalence of Depression, Anxiety, Stress and Factors Affecting it among Women of Raipur City

### Completed

S. No.	Projects
1.	Prevalence and Determinants of Depression among Elderly in an Urban Slum of Raipur City- A Community based Cross Sectional Study
2.	A Study on Utilization of Sanitation Facilities among Adolescent Girls in an Urban Slum of Raipur City
3.	Situational Analysis of WASH Facilities Related to MCH Services in Raipur District
4.	Barriers in Implementation of National Programme for Prevention and Control of Cancer, Diabetes, Cardiovascular Diseases and Stroke (NPCDCS) in Raipur, Chhattisgarh

S. No.	Projects
5.	Prevalence of Tobacco Consumption and its Economic Burden among Adult Males (> 18 yrs) Residing at Urban Area of Raipur, Chhattisgarh
6.	A Study of Male Involvement in Family Planning among Rural Married Men of Chhattisgarh, India
7.	Community Perception of CKD in Supebeda Village, Gariyaband District of Chhattisgarh- A Qualitative Study

## Collaborative Projects

### Ongoing

S. 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.	A Multi-Centric, Prospective, Community based Cohort Study to Estimate the Incidence of Dengue Infection in India (INDEN Study) (Principal Investigator from CFM Department)	ICMR General Medicine Pediatrics Microbiology
3.	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
4.	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)	Microbiology
5.	Correlation Study of Endothelial Function and Biomarkers in Patients of Sickle Cell Anemia at Chhattisgarh (Co-Investigator from CFM Department)	Physiology
6.	A Clinical and Epidemiological Profile of Patients with Chronic Kidney Disease of Unknown Etiology Attending AIIMS, Raipur, CG (Co-investigator from CFM Department)	Nephrology
7.	An Assessment of the out of Pocket Expenditures in Accessing Dialysis Services among Chronic Kidney Disease Patients in a Public Sector Tertiary Care Hospitals of Central India (Co-Investigator from CFM Department)	Nephrology
8.	To Assess the Profile and Predictors of Outcome in Babies Admitted in Special New-Born Care Units (SNCUs) of two Tribal Districts of Chhattisgarh (Co-Investigator from CFM Department)	Pediatrics
9.	To Assess the Profile and Predictors of Outcome in COVID-19 Patients with Co-Morbidities in a Public Sector Tertiary Care Hospitals of Central India (Co-Investigator from CFM Department)	Pediatrics Pulmonary Medicine Medical Record Department

S. No.	Project	Collaborating Department/Institution
10.	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)	Hospital Administration Medical Record Department
11.	Determinants of Mortality due to COVID in India (Multi Centric Project) (Co-Investigator from CFM Department)	Medical Record Department Pulmonary Medicine

## PUBLICATIONS

- M. Mohan Kumar, Manisha Ruikar. Technology driven integration of occupational health services into primary healthcare settings. *Int J Community Med Public Health* 2020; 7(6): 2421-25.
- Sayeed Unisa, Abhishek Saraswat, Arti Bhanot, Abdul Jaleel, Rabi N Parhi, Sourav Bhattacharjee et al. Predictors of the diets consumed by adolescent girls, pregnant women and mothers with children under two years in rural eastern India. *Journal of Biosocial Science*. Doi:10.1017/S00219320 20000462.
- Anand Krishnan, Vivek Gupta, Baridalyne Nongkynrih, Rakesh Kumar, Ravneet Kaur, Sumit Malhotra et al. MINERVA Network. Mortality in India established through verbal autopsies (MINERVA): Strengthening national mortality surveillance system in India. *J Glob Health* 2020 Dec;10(2):020431. doi: 10.7189/jogh.10.020431.
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- Galhotra V, Parhad P, Raj U, Galhotra A. Sustainable development of dentistry: Safeguarding the patient & professionals during Pandemics. *J of Advanced Medical and Dental Sciences Research* 2020; 8(6):92-96.
- Pal R, Rathore V, Galhotra A, Mamidi V. Chronic kidney diseases: A realm for preventive nephrology. *J of Family Medicine and Primary Care* 2020; 9(8): 3810-14. DOI: 10.4103/jfmpc.jfmpc\_1264\_19.
- Madhur Verma, Priyanka Sharma, Sneha Ranjan, Soumya Swaroop Sahoo, Ramnika Aggarwal, Kedar Mehta et al. The perspective of our future doctors towards organ donation: a national representative study from India. *Int J Adolesc Med health* 2020 Aug 31. doi: 10.1515/ijamh-2020-0041.
- Vinay Rathore, Abhiruchi Galhotra, Rahul Pal, Kamal Kant Sahu. Covid-19 pandemic and children: A review. *The Journal of Pediatric Pharmacology and Therapeutics* 2020; 25(7): 574-585. DOI: 10.5863/1551-6776-25.7.574.
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- Panigrahi SK, Majumdar S, Galhotra A, Kadle SC and John AS. Community based management of COVID-19 as a way forward for Pandemic response. *Front. Public Health* 2021; 8:589772. doi: 10.3389/fpubh.2020.589772.
- Panigrahi S, Majumdar S, Pal A, Parija PP, Bharath DU. Covid-19 chemoprophylaxis: Ethics of prevention based on anecdotal evidence. *Indian J Med Ethics*. Published online on June 6, 2020. DOI: 10.20529/IJME.2020.066.
- Sinha P, Hussain T, Boora N K, Rao G N, Varghese M, Gururaj G et al. NMHS India Collaborators Group. Prevalence of Common mental disorders in older adults: Results from the National Mental Health Survey of India. *Asian J Psychiatry* 2021;55:102463.
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- Khobragade AW, Meshram TT. Knowledge, attitude and practices regarding prevention of dengue in an urban area of Central India. *Int J Community Med Public Health* 2021;8(6):3030-34.
- Khobragade AW, Yadav RG. Nutritional status of under five children attending Anganwadi in rural area of central India. *Int J Community Med Public Health* 2020;7(12):5165-68.
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- Raj U, Akshaya KM, Bhargava M. Are primary health centers prepared for noncommunicable disease management? A facility-based mapping of gaps in



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19. Pal RK, Naik G, Rathore V, Sahu KK, Kumar R. Comparison between two different successful approaches to COVID-19 pandemic in India (Dharavi versus Kerala). *J Family Med Prim Care* 2020; 9 ( 1 2 ) : 5 8 2 7 - 3 2 . doi : 10.4103/jfmpc.jfmpc\_1860\_20. PMID: 33681002; PMCID: PMC7928144.
  20. GRID COVID-19 Study Group. Combating the COVID-19 pandemic in a resource constrained setting: an account of India's initial response. *BMJ Global Health* 2020; 0:e003416. doi:10.1136/ bmjgh-2020-003416.
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  22. Patel S, Verma NR, Padhi P, Naik T, Nanda R, Naik G, et al. Retrospective analysis to identify the association of various determinants on birth weight. *J Family Med Prim Care* 2021;10(1):496-501.
  23. Naik G, Kumar MM. COVID 19 and rural India: better now than later. *Int J Community Med Public Health* 2020;7:2433-34.
  24. Sharma G, Mooventhan, Naik G, Nivethitha L. A review on role of yoga in the management of patients with cardiac arrhythmias. *Int J Yoga* 2021;14:26-35.
  25. Panigrahi SK, Pathak VK, Kumar MM, Raj U, Priya P.K. Covid-19 and mobile phone hygiene in healthcare settings. *BMJ Glob Health* 2020; Apr 22;5(4):e002505. doi: 10.1136/bmjgh-2020-002505. PMID: 32399260; PMCID: PMC7204931.
  26. Priya KP, Raj U, Giri AK. Role of undergraduate teaching: a link between patients and program implementation. *Int J Community Med Public Health* 2020;7:3255-58.
  27. Priya K, Pathak VK. Violence against doctors before and after the pandemic of COVID-19. *Int J Community Med Public Health* 2020;7:4189-92.
  28. Priya PK, Parija PP, Kujur A. WHO recommendation and India's practice on tetanus vaccination— How much is too much? *Tropical Doctor* 2021; 28:00494755211010874.
  29. Hannah Jose, Vineet Kumar Pathak. Essential health services during COVID-19: an unidentified lead. *Int J Res Med Sci* 2020; 8(12):4553-56.
  30. Krishna E, Pathak VK, Prasad R, Jose H, Kumar MM. COVID-19 reinfection: Linked possibilities and future outlook. *J Family Med Prim Care* 2020;9:5445-49.

## Chapters in Book

S. No.	Author(s)	Chapter	Name of the Editor	Book	Edition	City of Publication	Publisher	Year of Publication
1.	<b>Dr Gouri Kumari Padhy</b>	Self-directed learning using Pair, Read and Share Method	Z. Zayapragass arazan, S. Kumar, D. Kadambari ,V. Dinesh Kumar	Effective Educational Practices in Health Profession Education	1 <sup>st</sup> (A Collection of Educational Projects completed by NTTC Alumni from 2006 to 2013)	Puducherry	NTTC Alumni Association of JIPMER (e publication)	2020
2.	<b>Dr Rajesh Kumar Konduru, Dr Anil J Purty, Dr Preetam Mahajan, Dr Amit Kumar Mishra, Dr Kalaiselvi</b>	Epidemiology of Acute Respiratory Infections and its prevention and control	Dr A M Kadri	IAPSM's Textbook of Community Medicine	2 <sup>nd</sup>	New Delhi	Jaypee Brothers Medical Publishers	2021

S. No.	Author(s)	Chapter	Name of the Editor	Book	Edition	City of Publication	Publisher	Year of Publication
3.	Dr Rajesh Kumar Konduru, Dr Anil J Purty, Dr Preetam Mahajan, <b>Dr Amit Kumar Mishra</b> , Dr Kalaiselvi	Epidemiology of Influenza and its prevention and control	Dr A M Kadri	IAPSM's Textbook of Community Medicine	2 <sup>nd</sup>	New Delhi	Jaypee Brothers Medical Publishers	2021

## Book

S. No.	Name of the Editor	Book	Edition	City of Publication	Publisher	Year of Publication
1.	<b>Dr Gouri Kumari Padhy</b> , Dr Sunil Panigrahi	Guidebook for mentorship programme in a medical college	1 <sup>st</sup>	Chhenai	Notion press (Xpress publishing)	2020

## 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 01.04.2020 to 31.03.2021, total 4237 beneficiaries (under five, adolescent, pregnant woman) and 110 travelers were vaccinated.
- During 01.04.2020 to 31.03.2021, total OPD attendance at Urban Health Training Centre of AIIMS Raipur located at Community Hall, Bhavani Nagar, Raipur was 2032.

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### 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, Gol in May 2020.
2. Nominated as External Member on Board of Studies (Medicine and Allied) of AIIMS, Nagpur for the tenure of 3 years from 29.07.2020.
3. Nominated as External Member on Board of Studies (Medicine and Allied) of Datta Meghe Institute of Medical Sciences, Sawangi (Meghe), Wardha; for the period of 3 years from 02.09.2020.

### Dr. Gouri Kumari Padhy

#### Development of patient friendly devices

1. Drug box (using multipurpose drawer available in market with use of sticker of logo for medication in relation to time zone and food)
2. Height adjustable stick for foot care of elderly

## Registered for Copy right

1. Prescription pad with time zone and food logo
2. Prescription pad with drug titration  
(for better understanding and improved drug compliance)

## Activities during lockdown

Organized more than thirty competitions among students of AIIMS Raipur to take care of their mental health during COVID-19 pandemic.

### **Dr. Gitismita Naik**

Awarded India Health Policy and Systems Research Fellowship 2021 in January 2021.

### **Dr. Karpaga Priya P**

Awarded the 'Promising Paper' for oral presentation entitled 'Item analysis of MCQs among undergraduate medical students in a teaching institute, Raipur' at AMRITACON-2020.

### **Dr Reshma Prasad**

Awarded the 1<sup>st</sup> prize in painting competition (Mahasangam) at IAPSMCON 2021.

## DEPARTMENT OF DENTISTRY

### Professor & Head

Dr. Virat Galhotra (From 23.10.2020)

### Associate Professors

Dr. Nakul Uppal

Dr. Santhosh Rao

Dr. Manish J. Raghani

### HIGHLIGHTS

Department of Dentistry provides routine essential general-, specialist- and advanced multi-specialty dental services in both outpatient and in-patient services. The scope of treatment procedures offered in outpatient service includes routine treatments like prophylaxis, preventive and restorative dentistry to more specialized treatments like Dental implants, Pediatric dentistry, Endodontic procedures, Prosthetic Dentistry, Orthodontics and an array of minor oral surgical procedures. The Department of Dentistry is presently equipped with four fully functional dental chairs rendering continued patient care. The outpatient services of the department are envisaged for a state-of-the-art upgradation with the addition of 10 more dental chairs soon.

Apart from the outpatient services, the department of Dentistry provides in-patient services which include an entire gamut of specialized dentistry specific to pediatric patients under general anesthesia to full-

fledged oral and maxillofacial surgical procedures ranging from maxillofacial trauma to oral surgical oncology and reconstructive surgeries. The residents and faculty provide round the clock coverage in trauma and emergency and patient care in dedicated wards for the in-patients, along with attending to the dental calls from various other wards for complaints ranging from general dental complaints to offering maxillofacial prostheses like obturator, feeding plates and NAM appliances in cleft patients.

During the COVID-19 pandemic, the department has actively involved hand in hand with the institution in managing the COVID-19 patients in our institute in all possible capacities, which includes them being posted in the COVID screening area, in-patient wards and ICU. Also, we have operated upon COVID positive patients who required emergency services from the department. The department provides continued teleconsultation services throughout the pandemic to needy patients.

### EDUCATION

- Lecture classes for MBBS students comprise oral and dental topics with clinical relevance to a medical graduate.
  - Online distribution and collation of study material, and testing was introduced for the PG students in Maxillofacial surgery.
  - Academic mentoring for the academic junior residents are also provided for their thesis research projects and papers and posters presented at forums such as conferences.
  - 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.
  - Internal assessment examination was conducted for the postgraduate students
- Classes for the nursing students address oral health nursing considerations

- An introduction on World Oral Health Day on the theme “Be Proud of your Mouth” was given
- Common dental health problems, causes, Do's and Dont's, cause of Bad Breath, when to visit doctor, importance of good and bad food, brushing technique in children and adults.
- Once the session was completed the doubts of beneficiaries were cleared and feedback was asked to improve in future sessions.

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Virat Galhotra

S. No.	Title	CME/Conference	Date	Organised By
1.	Stem Cells in Dentistry	4 <sup>th</sup> Biennial International ISCSGCON 2021	13-14.02.2021	AIIMS, Raipur

### Dr. Santhosh Rao

S. No.	Title	CME/Conference	Date	Organised By
1.	Surgical challenges in Mutilated Orthodontic patients	Clinical chronicles - An interdisciplinary colloquium	21 Dec 2020	Online - Vishnu Dental College Bhimavaram, Andhra Pradesh
2.	Tissue Engineering in Mandibular Reconstruction	4th Biennial International ISCSGCON 2021	13-14.02.2021	AIIMS, Raipur

### Dr. Manish Raghani

S. No.	Title	CME/Conference	Date	Organised By
1.	Dental Practice in Current Covid Scenario	IDA Mahanadi (Orissa) Branch (Virtual)	01.05.2020	IDA Mahanadi (Orissa) Branch
2.	Judge in the Scientific Session	5th ACOMS Trainee Conference (Virtual)	24.10.2020	Asian Association of Oral & Maxillofacial Surgeons

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Uppal N, Burman S.	Poster- Diagnostic Dilemmas in Maxillofacial Surgery: Reviewing the Value of Bone Scans.	52 <sup>nd</sup> annual conference of the Society of Nuclear Medicine in India	11-13 Dec 2020	AIIMS Raipur
2.	Burman S, Uppal N.	Oral paper- Revisiting Bone Scintigraphy in Maxillofacial Practice.	5 <sup>th</sup> ACOMS Trainee Conference	24 Oct 2020	Asian Association of Oral and Maxillofacial Surgeons

S. No.	Authors	Title	Conference	Date	Organised By
3.	Subham Agrawal, Santhosh Rao	Juvenile Psammomatoid Cemento-ossifying Fibroma of Mandible: a Diagnostic dilemma	5 <sup>th</sup> ACOMS Trainee Conference	24 Oct 2020	Asian Association of Oral and Maxillofacial Surgeons
4.	Chakshu Bajaj, Manish Raghani	Maxillofacial Trauma- Sagittal Splits of Condylar Head of Mandible with 2 Lag Screws	5 <sup>th</sup> ACOMS Trainee Conference	24 Oct 2020	AIIMS, Raipur
5.	Chakshu Bajaj, Manish Raghani	Benign Jaw Pathologies -Management of ameloblastoma of Jaw and Reconstructions with Iliac Crest Graft: A Case Series	International Digital Conference	30 <sup>th</sup> , 31 <sup>st</sup> Oct & 1 <sup>st</sup> Nov 2020	AIIMS, Raipur

## RESEARCH Funded Projects Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year- End year	Total funds sanctioned (Rs.)
1.	Rate of tooth movement in injectable PRP as compare to Micro-osteoperforation in orthodontic patient – An Open label Randomized Controlled Trial	Dr. Manish J. Raghani	AIIMS Raipur	1 year	2021-22	5 Lakhs
2.	Evaluate the functional, aesthetic and quality of life outcome in patient with Temporomandibular joint Ankylosis undergoing Concomitant Orthognathic surgery with Joint Reconstruction using vascularised second metatarsal graft: A Pilot Study	Dr. Santhosh Rao	AIIMS Raipur	2 Years	2019 - 2021	5 Lakhs

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

S. No.	Projects
1.	Radionuclide Bone Scan in Evaluation of Temporomandibular Joints.
2.	Spectrum of maxillofacial surgical problems presenting to AIIMS, Raipur: cross-sectional, descriptive, Observational study
3.	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.	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

## Completed

S. No.	Projects
1.	Psychological Distress Fear and Anxiety amongst Dental practitioners in India during COVID -19 pandemic: Nationwide Online survey
2.	Glossopharyngeal Neuralgia, a Usually Overlooked Diagnosis: A Prospective Single Centre Observation Study
3.	Comparison of Hybrid Arch Bar versus Conventional Arch Bar for Temporary Maxillomandibular Fixation during Treatment of Jaw Fractures: a Prospective, Comparative, Observational Study.

## Collaborative Projects Ongoing

S. No.	Project	Collaborating Department/Institution
1.	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	Department of Physiology AIIMS, Raipur
2.	Evaluate the Functional, Aesthetic 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	Department of Physiology, Psychiatry Anesthesia, General Medicine and Pediatrics AIIMS, Raipur
3.	Radionuclide Bone Scan in Evaluation of Temporomandibular Joints.	Dept. of Nuclear Medicine, AIIMS, Raipur

## Completed

S. No.	Project	Collaborating Department/Institution
1.	Study of Sexual Dimorphism in Mandibular Canines using Mandibular Canine Index in Patients attending Dental OPD at AIIMS Raipur	Department of Forensic Medicine AIIMS, Raipur
2.	Psychological Distress Fear and Anxiety amongst Dental Practitioners in India during COVID -19 pandemic: Nationwide Online Survey	Department of Psychiatry AIIMS, Raipur

## PUBLICATIONS

- Galhotra V**, Parhad P, Raj U, Galhotra A. Sustainable Development of Dentistry- Safeguarding the patient & professionals during Pandemics. Journal of Advanced Medical and Dental Sciences Research.2020;8(6):92-96.
- Shetty SS, **Uppal N**, Singh R. Skull- based model for inferior alveolar nerve block. Oral Surgery. 2021.[doi.org/10.1111/ors.12616](https://doi.org/10.1111/ors.12616)
- Rao S**, Singh V, Hafeez AA, Agarwal SS. Juvenile Psammomatoid Cemento-ossifying Fibroma of Mandible: a Diagnostic dilemma. BMJ Case Rep. 2021;14(3).
- Rao S, Pandey S, **Rao S**. Rhytidectomy approach for treatment of zygomatic arch fractures. BMJ Case Rep. 2021;14(1):e238972.
- Burman S, Pandey S, **Rao S**, Rao S. Duplication of the internal jugular vein: a rare presentation during neck dissection. BMJ Case Rep. 2021;14(2):e239007.
- Rao S**, Kashyap NK, Panda C, Kumar N. Compromised microvascular free flaps; salvage using Fogarty vascular catheter thrombectomy. BMJ Case Rep. 2020;13(12):e239251-e.
- S Rao**, SRao, **Manish Raghani**. Glossopharyngeal Neuralgia, An Usually Overlooked Diagnosis: A Prospective Single Center Observation Study. Indian Journal of Otolaryngology and Head & Neck Surgery 2020; 1-6

## PATIENT CARE

The statistics of the patient care during this time is as below:

Services	OPD	Dental Procedures	Major Surgeries
<b>Total</b>	13918	3894	147

This includes ; RCTS = 1421, Dental Implants = 22, Maxillofacial Trauma = 83, Oral Cancer Surgeries= 10

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

Dr. Santhosh Rao, was external examiner for undergraduate and post graduate examinations in the subject of Oral & Maxillofacial Surgery, including postgraduate examination for MDS in AIIMS, Rishikesh.

Health Education Session on World Oral Health Day was organized by MPH Students & PGs Dept of Dentistry, AIIMS Raipur on 20.03.2021, which benefitted almost 110 patients. The session includes an introduction on World Oral Health Day on the theme “Be Proud of your Mouth” was given, Common dental health problems, causes, Do's and Don'ts, cause of Bad Breath, when to visit doctor, importance of good and bad food, brushing technique in children and adults. Once the session was completed the doubts of beneficiaries were cleared and feedback was asked to improve in future sessions.



## Department of Dermatology

### Associate Professor & In-charge

Dr. Satyaki Ganguly

### Assistant Professors

Dr. Namrata Chhabra Sharma

Dr. Neel Prabha

## HIGHLIGHTS

The past year was spent in the backdrop of the COVID-19 pandemic, and management of this pandemic was the main focus of our institution. The faculties and residents of the department of Dermatology, performed regular duties in the designated exclusive COVID-19 wards. Our aim for

the last year was to minimize the impact of COVID-19 scenario on routine care of Dermatology patients, post-graduate teaching and research activities. This was even more significant as the department of Dermatology has an annual intake of 4 students for the post-graduate training programme.

## EDUCATION

In view of the COVID-19 pandemic online classes were started for undergraduate students and a total of 29 online dermatology classes were taken, including online photo quiz and case scenario quiz.

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Satyaki Ganguly

S. No.	Title	CME/Conference	Date	Organised By
1.	How do I Manage Lichenoid Drug Reactions	MID DERMACON 2020(Virtual conference)	29.08.2020	Indian Association of Dermatologists, Venereologists and Leprologists

### Dr. Namrata Chhabra Sharma

S. No.	Title	CME/Conference	Date	Organised By
1.	Clinicopathological case challenges	DERMACON 2021(Virtual conference)	07.02.2021	Indian Association of Dermatologists, Venereologists and Leprologists
2.	Dermatology Potpourri: Interesting Cases	Basic and Recent advance in Dermatology	05.03.2021	Department of Dermatology, SSIMS, Bilai

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Aurthors	Title	Conference	Date	Organised By
1.	Raut S	Histopathological Study of Cutaneous Tuberculosis	CG -CUTICON 2020(Virtual conference)	13.12.2020	Indian Association of Dermatologists, Venereologists and Leprologists- Chhattisgarh branch
2.	Singh A	The Interplay of Vitamin D and Body Mass Index in Acne Patients Versus Controls*	CG -CUTICON 2020(Virtual conference)	13.12.2020	Indian Association of Dermatologists, Venereologists and Leprologists- Chhattisgarh branch
3.	Ganguly S, Chhabra N	Dermatology Examination in MBBS? - An Analysis of Interns' Feedback after Dermatology Posting	DERMACON 2021(Virtual conference)	5 -7.02.2021	Indian Association of Dermatologists, Venereologists and Leprologists
4.	Chhabra N, Khare S	Periorbital melanosis: is there a role of dermoscopy for better evaluation and classification?	DERMACON 2021(Virtual conference)	5 -7.02.2021	Indian Association of Dermatologists, Venereologists and Leprologists
5.	Prabha N	Hyperpigmented Papules over Labium Majus: A Sexually Acquired Infection or Something else	DERMACON 2021(Virtual conference)	5-7.02.2021	Indian Association of Dermatologists, Venereologists and Leprologists
6.	Prabha N, Khare S	Azathioprine Induced Anagen Effluvium with Myelosuppression	DERMACON 2021(Virtual conference)	5-7.02.2021	Indian Association of Dermatologists, Venereologists and Leprologists
7.	Yadav H, Khare S, Ganguly S	A Rare Case of Erythema Elevatum Diutinum from Central India	DERMACON 2021(Virtual conference)	5-7.02.2021	Indian Association of Dermatologists, Venereologists and Leprologists
8.	George A, Singh A, Ganguly S	Double Trouble: Dermatitis Herpetiformis with Psoriasis; Does the Pathogenesis Need a Relook?	DERMACON 2021(Virtual conference)	5-7.02.2021	Indian Association of Dermatologists, Venereologists and Leprologists

S. No.	Aurthors	Title	Conference	Date	Organised By
9.	Choudhary R, Ganguly S	Periocular lupus vulgaris mimicking chronic dacryocystitis: A rare presentation	DERMACON 2021(Virtual conference)	5-7.02.2021	Indian Association of Dermatologists, Venereologists and Leprologists
10.	Rahim J, Chhabra N	Recalcitrant Pyoderma Gangrenosum: Therapeutic response to Adalimumab	DERMACON 2021(Virtual conference)	5-7.02.2021	Indian Association of Dermatologists, Venereologists and Leprologists

## RESEARCH Funded Projects Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year- End year	Total funds sanctioned (Rs.)
1.	A Cross Sectional Study on Dermoscopic Evaluation of Periorbital	Dr. Namrata Chhabra Sharma	Intramural	2	2019-2021	Rs 5,00,000

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

S. No.	Projects
1.	Serum Levels of Interleukin 17 and 25 Hydroxyvitamin D in Non-Segmental 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.	A Cross Sectional Study of Dermatological Manifestations in Chronic Kidney Disease Patients in a Tertiary Care Institute of Central India

## Completed

S. No.	Projects
1.	Analysis of Interns' Feedback After Dermatology Posting: A Record Review
2.	A Study of Facial Contact Dermatitis Using Patch Test with Indian Standard and Cosmetic Series
3.	Clinico-epidemiological profile of Chronic Dermatophytosis in a Tertiary Institute in Chhattisgarh
4.	A Multicentric study of Knowledge, Attitude and Practice regarding Topical Steroids in Dermatology Outpatients

## PUBLICATIONS

### Papers published in journals:

1. 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.
2. **Ganguly S**, Parthasaradhi A, Thomas J, Arora S, Kumar P, Pradhan S, Saraswat A, Singh V, Komeravalli H. Psoriasis Management During the COVID-19 Pandemic: Recommendations by SIG Psoriasis (IADVL Academy). *Indian Dermatol Online J*. 2021; 12:58-65.
3. **Chhabra N**. Periocular fixed drug eruption presenting as periorbital hypermelanosis: Clinical diagnosis aided by dermoscopy. *Indian Journal of Paediatric Dermatology*. 2021; 22. 172-3.
4. **Chhabra N, Khare S**, Das P, Wankhade AB. Clinicomycological Profile of Chronic Dermatophytosis in a Tertiary Care Center from Raipur, Chhattisgarh. *Indian Dermatol Online J*. 2020; 12:165-8.
5. **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; 16:110-3.
6. **Prabha N**, Arora RD, **Ganguly S, Chhabra N**. Gentian violet: Revisited. *Indian J Dermatol Venereol Leprol*. 2020; 86:600-3.
7. Errichetti E, Ankad BS, Sonthalia S, Jha AK, Keshavamurthy V, Kyrgidis A, Neema S, Chatterjee M, Kaliyadan F, Dogra S, **Khare S**, et al. Dermoscopy in general dermatology (non-neoplastic dermatoses) of skin of colour: a comparative retrospective study by the International Dermoscopy Society. *Eur J Dermatol*. 2020; 30:688-98.
8. George RM, Rajamohan R, Kuruvila S, **Ganguly S**. Firm, Painless Nodule over the Cheek. *Indian Dermatol Online J*. 2020; 11:662-4.
9. **Singh A, Ganguly S, Chhabra N, Yadav H**, Oshima J. A Case Report of Werner's Syndrome with a Novel Mutation from India. *Cureus*. 2020; 12: e8025.
10. **Ahmed G, Khare S, Ganguly S, Chhabra N, Prabha N**. Topical methotrexate 1% gel for the treatment of localized alopecia areata. *Int J Dermatol*. 2020; 59: e292-e293
11. **Prabha N**, Arora R, Chhabra N, Nagarkar NM. Audiological abnormalities in vitiligo patients: a hospital-based cross-sectional study. *Int Arch Otorhinolaryngol*. 2020; 24: e149-e153
12. **Prabha N**, Arora RD, Singh N, Nagarkar NM. Glycopyrrolate-induced black hairy tongue. *Indian Dermatol Online J* 2020; 11:256-7.
13. **Singh A, Prabha N, Yadav H**. A rare case report of dabigatran induced oral ulcers. *Curr Drug Saf*. 2020; 15:160-2.
14. Satpute SS, Joshi SV, Arora R, **Prabha N**, Keche P, Nagarkar NM. Cryosurgery Vs Trichloroacetic acid chemical cautery for the treatment of hypertrophied nasal turbinate: a comparative study. *Iran J Otorhinolaryngol* 2020; 32:303-9.
15. Mathew S, Arora RD, **Prabha N**, Kamble P, Satpute SS, Nagarkar NM. Retroanalytical study of epidemiological factors of rhinosporidiosis. *Int Arch Otorhinolaryngol*. DOI <https://doi.org/10.1055/s-0040-1718526>. ISSN 1809-9777.
16. **Ahmed G, Khare S, Prabha N**. Phthiriasis palpebrarum and outpatient-based education: scooping beyond treatment. *Egypt J Dermatol Venereol* 2021; 41:53-4

### Chapter in Book

S. No.	Author(s)	Chapter	Name of the Editor	Book	Edition	City of Publication	Publisher	Year of Publication
1.	Prabha N	Cerebral Metastasis from Papillary Thyroid Carcinoma Presenting as Vertigo	Kacker SK	Complicated Cases in Vertigo and Dizziness	2 <sup>nd</sup>	New Delhi	KWX Communications Pvt. Ltd.	2020

## PATIENT CARE

Services	OPD	IPD	Minor OT	Tests (Including KOH, slit-skin smear etc)	Special Clinic (Contact dermatitis)
<b>Total</b>	16225	54	1499	454	26

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

Our post-graduate students Dr. Ritul Choudhary and Dr. Jemshi S Rahim won ICMR post graduate thesis grant and IADVL post-graduate thesis grant respectively. Dr. Ajeet Singh, Senior Resident won the best award paper prize in CG -CUTICON 2020(Virtual conference).

**Dr. Satyaki Ganguly** was awarded the UCB scholarship for 29th Virtual Congress of the European Academy of Dermatology and Venereology (EADV)- 29th-31st October, 2020. He successfully completed the 'Basic course in Biomedical Research' conducted by ICMR and National Institute of Epidemiology. He was a panelist for panel discussion 'Management of Psoriasis with Comorbidities' in in DERMACON 2021(Virtual conference) on 5th February 2021. He was also selected as a member of Special Interest groups (SIG)- SIG psoriasis and SIG-

## Department of Endocrinology & Metabolism

### Assistant Professor & In-charge

Dr. Amritava Ghosh

### HIGHLIGHTS

In addition to regular OPDs and special clinics (namely, adrenal clinic, neuroendocrinology and pituitary clinic, youth onset diabetes clinic, bone and mineral metabolism clinic, growth and development clinic, and diabetes associated complications clinic), the department extended its services to provide teleOPD facility in order to address the special

circumstances arising out of Covid pandemic. Additionally, the faculty and residents of the department made significant contributions towards care of Covid patients. Work was started on a number of research projects, including 2 randomized clinical trials (including one multicentric trial).

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

#### Dr. Amritava Ghosh

S. No.	Title	CME/Conference	Date	Organised By
1.	Do Men Pause - Andropause	ESI Webinar - Gender Sensitive Endocrinology	26.09.2020	Endocrine Society of India (ESI)
2.	Approach to Diabetic Foot	SPEED Endocrine e-Dialogues (SEED)	26.09.2020	Society for Promotion of Education in Endocrinology & Diabetes
3.	Evaluation and Management of Osteoporosis	World Osteoporosis Day	20.10.2020	Department of Orthopaedics, AIIMS, Raipur

### RESEARCH

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

S. No.	Projects
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

## 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.	Cyto-histomorphological correlation in a cohort of thyroid samples with study of IHC expression of BRAF in them	Department of Pathology & Lab Medicine, AIIMS, Raipur
3.	Use of Ambulatory Glucose profile in effective monitoring and control of Gestational Diabetes Mellitus	Department of General Medicine, AIIMS, Raipur
4.	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, AIIMS, Raipur

## PUBLICATIONS

### Papers published in journals:

- Ghosh A**, Ray S, Garg MK, Chowdhury S, Mukhopadhyay S. The Role of Infrared Dermal Thermometry in the Management of Neuropathic Diabetic Foot Ulcers. *Diabet Med.* 2020 Aug 2;e14368.
- Rastogi A, Mukhopadhyay S, Sahoo JP, Mennon A, **Ghosh A**, Jha S, et al. Intensive Glycemic Control for Diabetic Foot Ulcer Healing: A Multicentric, Randomized, Parallel Arm, Single-Blind, Controlled Study Protocol (INGLOBE Study). *Int J Low Extrem Wounds.* 2020 Sep 9;1534734620952245.

### Edited books and monographs.

#### Books:

S. No.	Author (s)	Chapter	Name of the Editor	Book	Edition	City of Publication	Publisher	Year of Publication
1.	Dr. Amritava Ghosh	Chapter 10: Triglycerides, Remnant Cholesterol, and Atherosclerotic Cardiovascular Disease Risk; Chapter 21: Diabetic Dyslipidemia: Current Concepts and Guidelines	Editors: Sujoy Ghosh, Banshi Saboo Associate Editors: Sayantan Ray, Amritava Ghosh	Manual of Lipidology	1 <sup>st</sup>	New Delhi	Jaypee Brothers Medical Publishers	2021

## PATIENT CARE

Services	OPD	IPD	Special Clinics	Other Facility
<b>Total</b>	3688	13	278	Tele-OPD: 1091

## DEPARTMENT OF ENT-HEAD & NECK SURGERY

### Professor & Head

Prof. (Dr.) Nitin M Nagarkar

### Associate Professors

Dr. Rupa Mehta

Dr. Ripu Daman Arora

### Assistant Professors

Dr. Satish Satpute

Dr. Nikhil Singh (21.10.2020 to 28.01.2021)

Dr. Sharmistha Chakrabarty (Joined on 25.02.2021)

### HIGHLIGHTS

The Department of Otorhinolaryngology-Head & Neck Surgery is a fully functional department catering to all varieties of cases of Ear, Nose & Throat diseases, Head and Neck malignancies. Endoscopic Nasal & Skull base surgery, Thyroid & parathyroid surgery, surgery for Oral, Laryngeal and Hypopharyngeal cancers, Nasal and Paranasal sinus cancers, Pituitary surgery, Surgery for Vascular tumors- angiofibroma, hemangiomas, lymphangiomas, Airway surgery- surgery for subglottic stenosis, Cochlear Implant surgery, Functional Endoscopic Sinus Surgery for nasal polyposis, Tympanomastoidectomy, Stapedectomy and surgery for Salivary gland neoplasms is being performed routinely with advanced instrumentation in state of the art Modular Operation Theatres.

Multidisciplinary management of cases is done in collaboration with Departments of Plastic surgery, Neurosurgery and Oral Maxillofacial surgery. All advanced Head and Neck cancers are discussed in the Tumor board comprising of various related departments. Atypical cases are discussed in monthly ENT- Pathology rounds and ENT – Radiology, rounds. Vertigo clinic & Otology clinic are a regular feature. Department has contributed significantly during Covid pandemic. All faculty members and residents performed duties in Covid wards. Department continued Telemedicine and Head and neck operative surgeries during Covid pandemic.

### EDUCATION

The Department has a fully equipped Audiology and Speech Language Pathology unit. BASLP course has started with 4 students in each batch: currently 2 batches are pursuing their undergraduate degree. Department has started M.Ch. (Head & Neck Surgery) course with one seat every 6 months. The department is actively involved in teaching and training of M.B.B.S, M.S., B.Sc. Nursing & BASLP students. The Department has 10 Post graduate students who are receiving structured training in the discipline. The Department has 2 M.Ch. (Head & Neck Surgery) students who are receiving structured training of the subject.



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

Department organized various activities on the occasion of World Hearing day 3<sup>rd</sup> March 2021 under the aegis of World Health Organization, spread over a week:

### World Hearing Day:- 2021

S. No.	Date	Programme	Title
1.	01.03.2021	<b>Awareness Program on various digital platforms and social media:</b> Door- darshan and Akashvaani, Facebook, You tube and Hospital Premises	Hearing care for all
2.	02.03.2021	Hearing screening Camp at UHTC, AIIMS	To raise awareness regarding hearing care for all
3.	03.03.2021	<b>CME (Hybrid)</b> with concerned professionals of various All India Institute of Medical Sciences	Promotion of ear and hearing care and how to improve quality of hearing health care services.
4.	04 & 05.03.2021	Advocacy campaign in hospital premises	Ear and hearing problem, identification and available management options and prevention among various age groups
5.	16.03.2021	Sensitization program about Occupational noise induced hearing loss for traffic personnel	Hearing Care For The Traffic Personnel Prevention and Preservation



## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

Prof. (Dr.) Nitin M. Nagarkar

S. No.	Title	CME/Conference	Date	Organised By
1.	Epidemiology of COVID 19 and also Chaired the Panel discussion	Capacity Building Programme on COVID for SAARC Countries through Virtual mode at AIIMS Raipur Jointly Organized by Ministry of External Affairs, Government of India	17.04.2020 , 18.04.2020, 20.04.2020 & 21.04.2020	AIIMS, Raipur
2.	Parathyroid lesions - an under diagnosed entity	Webinar for the ENT Grand rounds-5 organized by PGIMER, Chandigarh	25.07.2020	PGIMER, Chandigarh
3.	Attended International Webinar on "National Education Policy-2020(NEPCON-2020)" as a Panel Speaker	International Webinar on "National Education Policy-2020(NEPCON-2020)" organized by Kalinga Institute of Industrial Technology (KIIT) Deemed to be University, Bhubaneswar	30.08.2020	Kalinga Institute of Industrial Technology (KIIT) Deemed to be University, Bhubaneswar
4.	"Corona Disease Information & Resources" as a Guest Speaker	Webinar on "Corona Disease Information & Resources" organized by The Institute of Chartered Accountants of India	26.09.2020	AIIMS, Raipur
5.	Webinar Series in Head & Neck Oncosurgery as a Panelist	"Webinar Series in Head & Neck Oncosurgery" jointly organized by University College of Medical Sciences & GTB Hospital, Delhi and The	06.11.2020	University College of Medical Sciences & GTB Hospital, Delhi and The University of CHICAGO
6.	Oral Cavity Carcinoma- Resection, Reconstruction and Rehabilitation: Our Experience at AIIMS Raipur	Webinar for the Alumni Academic Meet, ENT department at PGIMER, Chandigarh	21.11.2020	PGIMER, Chandigarh
7.	Exploring Research Paradigms: From Principles to Biotechnology Market as an Expert Speaker	Webinar on "Exploring Research Paradigms: From Principles to Biotechnology Market" organized by Amity Institute of Biotechnology, Chhattisgarh	12.12.2020	Amity Institute of Biotechnology, Chhattisgarh
8.	52 <sup>nd</sup> Annual Conference of Society of Nuclear Medicine India (Virtual- SNMICON 2020) Organizing Chairman and Chaired the Panel discussion	Webinar on "Exploring Research Paradigms: From Principles to Biotechnology Market" organized by Amity Institute of Biotechnology, Chhattisgarh	12.12.2020	Amity Institute of Biotechnology, Chhattisgarh

S. No.	Title	CME/Conference	Date	Organised By
9.	Oral Cavity Carcinoma- Resection, Reconstruction and Rehabilitation: Our Experience	Webinar for the World Cancer Day organised by Department of Pediatrics and Medical Oncology, AIIMS Raipur	04.02.2021	AIIMS, Raipur
10.	Management of Neck Nodes in Oral Cancers. Also Chaired the Panel discussion	CME "Management of Neck Nodes in Oral Cancers" organized by Shri Shankaracharya Institute of Medical Sciences, Bhilai	13.02.2021	Shri Shankaracharya Institute of Medical
11.	Role of Regenerative Medicine in Medical Field	Chairman of CME: 4 <sup>th</sup> Biennial International ISCSGCON 2021 at AIIMS Raipur, Jointly Organized by Indian Stem Cell Study Group Association of India	13 <sup>th</sup> -14 <sup>th</sup> February, 2021	AIIMS, Raipur
12.	Hearing Care for All	CME on the World Hearing Day 2021 organized by Department of ENT & HNS, AIIMS Raipur	3 <sup>rd</sup> March 2021	AIIMS, Raipur
13.	Living Well with Kidney Disease	CME on the World Kidney Day 2021 jointly organized by Department of Nephrology and School of Public Health, AIIMS Raipur	08 <sup>th</sup> March 2021	AIIMS, Raipur
14.	To know how we collectively can reach our goal to be the front runner	CME on AIIMS- an Institute Par Excellence: Challenges on the Way Forward organized by AIIMS Deoghar	13th March 2021	AIIMS, Deoghar

### Dr. Rupa Mehta

S. No.	Title	CME/Conference	Date	Organised By
1.	Regenerative medicine in Otorhinolaryngology-Current Status & Future Trends	4th biennial international ISCSGCON 2021	13.02.2021	AIIMS, Raipur
2.	Adult hearing screening – the way forward	World Hearing day	03.03.2021	AIIMS, Raipur
3.	Oral Cavity Carcinoma – Resection, Reconstruction & Rehabilitation – AIIMS, Raipur experience	World Cancer Day	04.02.2021	AIIMS, Raipur
4.	Clinician wellbeing – Healing the Healer (Poster)	AAOHNS 2020 virtual meeting	13.09.2020-16.09.2020	AAOHNS
5.	Investigation of the invitro biofilm producing ability and antimicrobial susceptibility testing of isolated microbes in CSOM patients (Poster)	AAOHNS 2020 virtual meeting	13.09.2020-16.09.2020	AAOHNS

S. No.	Title	CME/Conference	Date	Organised By
6.	“Parathyroid Lesions - An Under-diagnosed Entity”	K-ENT Innovative Masterclass 2020 5th edition of ENT Grand Rounds.	25.07.2020	K-ENT Hospital , Chitradurga
7.	“Oral Cavity Carcinoma - Resection , Reconstruction And Rehabilitation - Our Experience At AIIMS Raipur ”	PGIMER ENT Alumni Academic Extravaganza	21.11.2020	PGIMER, Chandigarh

#### Dr. Ripu Daman Arora

S. No.	Title	CME/Conference	Date	Organised By
1.	Parotid tumors	Live webinar: cipla-Ipedia	17th July	live webinar; Chandigarh
2.	Angiofibroma	9th ENT Update	5th - 6th December 2020	Maulana Azad Medical College and associated hospital , Delhi
3.	Hypothyroidism and voice change : A comparison effect of different perspective	Midterm Phonocon	1st November 2020	Association of phonosurgeons of India and Sri Satyha Sai ENT hospital and Melody voice clinic ,Guntur
4.	Panel discussion: Thyroid cancer Surgery	2nd Thyroid surgery update	21st January 2021	MMIMSR, Ambala
5.	New born hearing screening	World Hearing day	3rd March 2021	AIIMS Raipur
6.	Common nasal problems and its management	State training programme for medical officers in ENT care at HWC'S	24th March 2021	NSHRC, Delhi

#### Dr. Satish S Satpute

S. No.	Title	CME/Conference	Date	Organised By
1.	Noise Induced Hearing Loss	World Hearing day	03.03.2021	AIIMS, Raipur
2.	Structure and Function of Ear: The Basic	Occupational Noise Induced Hearing Loss for Traffic Personnel	16.03.2021	AIIMS, Raipur

#### Presentation by Miss Monalisa Jati: (Audiologist, Speech Therapist)

S. No.	Title	CME/Conference	Date	Organised By
1.	Cochlear Implant Journey of Children and their families at AIIMS, Raipur- A video presentation	CME for World Hearing Day- 2021	03.03.2021	AIIMS, Raipur

**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	Indian Council for Medical Research (ICMR), NCDIR, Bengaluru		Ongoing
2.	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	06 months	11.05.2020 Ongoing
3.	Determinants of Mortality due to COVID in India	Prof. (Dr.) Nitin M. Nagarkar	AIIMS New Delhi and AIIMS Raipur	01 year	25.07.2020
4.	Implementation of NCDIR Electronic Mortality Software (NCDIR e-Mor) - strengthen Medical Certification of Cause of Death in AIIMS Raipur	Prof. (Dr.) Nitin M. Nagarkar	Indian Council for Medical Research (ICMR), National Centre for Disease Informatics and Research (NCDIR), Bengaluru	05 years	28.09.2020
5.	Evaluation of Amyloid Precursor Protein mRNA expression in tissue and saliva of HNSCC Mehtapatient	Dr. Rupa Mehta	Intramural	02 years	2020-2022
6.	Pattern and Degree of hearing loss following Acute CNS Infection (Meningitis and Meningoencephalitis) in children (neonate – 15 years)	Dr. Rupa Mehta	Non funded	02 years	2021-2023

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year
7.	Evaluation of Prevalence of HPV in Head and Neck Malignancies	Dr. Ripu Daman Arora	Funded by AIIMS Raipur	02 years extended to 3rd year	2018
8.	Clinical presentation of COVID 19 in central India : A Hospital based cross sectional study	Dr. Ripu Daman Arora	Non Funded Project	2020 - 2021	6 months
9.	Prevalence of new onset of anosmia and its diagnostic significance in Covid 19	Dr. Ripu Daman Arora	Non Funded Project	6 months	2021
10	Evaluation of Prevalence of hearing impairment among primary school children in rural areas of Chhattisgarh, India	Dr. Satish S Satpute	Intramural	1 year	2020-2021

### Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year
1.	Technology Enablement from Management to solution for Hearing Impaired"-From Prototype to Device Development-II	Prof. (Dr.) Nitin M. Nagarkar	Department of Science and Technology under Ministry of Science and Technology Govt, New Delhi	1 year	2020 & August 2021
2.	Investigation of the invitro biofilm producing ability and antimicrobial susceptibility testing of isolated microbes in various Ear Nose Throat infections	Dr. Rupa Mehta	Non Funded	1 year	2019-2020
3.	Retrospective Analysis of Tympanometric findings for outpatients at AIIMS Raipur: A Hospital Based Study	Dr. Ripu Daman Arora	Non Funded Project	6 months	2020

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Study of Endoscopic advantage over conventional approach for teaching by dissection of Nose-PNS and Anterior skull base	Anatomy

## Departmental Projects (including thesis/dissertations)

### Ongoing

S. No.	Projects
1.	Comparison and Correlation of Result of Preoperative Fine Needle Aspiration Cytology (FNAC) Intraoperative Histopathology in the Lesions of Thyroid
2.	Epidemiological, Clinico-Radiological and Immunological profile of Rhinosporidiosis- A preliminary study from Central India
3.	Role of FDG-PET CT Scan in Pretreatment Evaluation of Oral Carcinomas
4.	Clinicoradiological Correlation in (Chronic Otitis Media) COM Squamosal Disease
5.	Pilot Study- Clinical, Radiological and Histopathological Correlation of Mandibular Invasion in Carcinoma Oral Cavity
6.	Clinicoradiological Correlation of Sinonasal Masses
7.	Correlation of Clinico-Radio-Cytology with Histopathology of Thyroid Nodule

## PUBLICATIONS

### Paper publications

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

1. Rupa Mehta, K.S.B.S. Krishna Sasanka, Nighat Hussain, **Nitin M Nagarkar**. A rare case presentation of Tuberculous Otitis Media with Turner's syndrome. **Indian Journal of Tuberculosis**, (June-2020)
2. Neel Prabha, Ripu Daman Arora, Namrata Chhabra, Monalisa Jati, **Nitin M Nagarkar**. Audiological Abnormalities in Vitiligo Patients: A Hospital-Based Cross-Sectional Study. **International Archives of Otorhinolaryngology**, (June- 2020) Volume 24, Issue-02 (page-155-159)
3. Anil Kumar Sharma, Rupa Mehta, Naman Chandrakar, Nikhil Singh, **Nitin M Nagarkar**. Suprasellar tension pneumatocele after endoscopic transsphenoidal surgery for pituitary macroadenoma. **Asian Journal of Neurosurgery**, (July- 2020) Volume 15, Issue-03 (page-763)
4. Satish S Satpute, Samir V Joshi, Ripudaman Arora, Neel Prabha, Prashant Keche, **Nitin M Nagarkar**. Cryosurgery Vs Trichloroacetic Acid Chemical Cautery for the Treatment of Hypertrophied Nasal Turbinate: A Comparative Study. **Iranian Journal of Otorhinolaryngology**, (September- 2020) Volume 32, Issue-32 (page-303)
5. Prawash Chowdhary, Vinay Rathore, Kamlesh Jain, Abhiruchi Galhotra, Nirmal Verma, Sanjeev Anant Kale, **Nitin M Nagarkar**, Vivekanand Jha. Chronic Kidney Disease of Unknown Origin in Supebeda, Chhattisgarh, India. **Kidney International Reports Journal**, (October-2020) (page-196-218)
6. 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**, (November-2020)

### Dr. Rupa Mehta

1. Anil Kumar Sharma, **Rupa Mehta**, Naman Chandrakar, Nikhil Singh, Nitin M Nagarkar. Suprasellar tension pneumatocele after endoscopic transsphenoidal surgery for pituitary macroadenoma. Asian Journal of Neurosurgery, (July-2020) Volume 15, Issue-03 (page-763)

### Dr. Ripu Daman Arora

1. Singh LK, **Arora RD**, Tikka SK, Shukla A, Singh S, Mahant S et al. Brief Intervention for Tobacco when Diagnosed with Oral Cancer (BITDOC): Study protocol of a randomized clinical trial studying efficacy of brief tobacco cessation intervention, Chhattisgarh, India. Tobacco Prevention & Cessation. 2020; 6 (January): 4. doi:10.18332/tpc/115028.
2. Prabha N, **Arora R\***, Chhabra N, Nagarkar NM. Audiological Abnormalities in Vitiligo Patients: A Hospital-Based Cross-Sectional Study. Int Arch Otorhinolaryngol. 2020;24:e75-e79.
3. Prabha N, **Arora RD\***, Singh N, Nagarkar NM. Glycopyrrolate-induced black hairy tongue. Indian Dermatol Online J 2020;11:256-7
4. Bihani K, Kamble P, **Arora R\***, Nagarkar NM. Filariasis: A Rare Differential Diagnosis of Cystic Neck Swelling. Otolaryngol Open Access J 2020, 5(1): 000191.

### Dr. Satish Satpute

1. **Satpute SS**, Joshi SV, Arora R, Prabha N, Keche P, Nagarkar NM. Cryosurgery Vs Trichloroacetic Acid Chemical Cautery for the Treatment of Hypertrophied Nasal Turbinate: A Comparative Study. Iranian Journal of Otorhinolaryngology. 2020 Sep;32(112):303.

### Dr. Nikhil Singh

1. Prabha N, Arora RD, **Singh N**, Nagarkar NM. Glycopyrrolate-induced black hairy tongue. Indian Dermatol Online J 2020;11:256-7
2. Anil Kumar Sharma, Rupa Mehta, Naman Chandrakar, **Nikhil Singh**, Nitin M Nagarkar.

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7. S. Satpute, S, V. Joshi, S, **Arora, R\***, Prabha, N, Keche, P, M. Nagarkar, N. Cryosurgery Vs Trichloroacetic Acid Chemical Cautery for the Treatment of Hypertrophied Nasal Turbinate: A Comparative Study. Iranian Journal of Otorhinolaryngology, 2020; 32(5): 303-309. doi: 10.22038/ijorl.2019.39039.2293
8. Prabha N, **Arora RD\***, Ganguly S, Chhabra N. Gentian violet: Revisited. Indian J Dermatol Venereol Leprol. 2020;86(5):600-603. doi: 10.4103/ijdv.IJDVL\_579\_19

2. Mathew S, Arora RD, Prabha N, Kamble P, **Satpute SS**, Nagarkar NM. Retroanalytical Study of Epidemiological Factors of Rhinosporidiosis. International Archives of Otorhinolaryngology. 2020 Nov 30

Suprasellar tension pneumatocele after endoscopic transsphenoidal surgery for pituitary macroadenoma. Asian Journal of Neurosurgery, (July-2020) Volume 15, Issue-03 (page-763)



## Chapters in Book

1. **Nitin M Nagarkar**, Gagandeep Singh, Immaculata Xess, Ankur Goyal, Ashu Seith Bhalla, Shamim Ahmed Shamim, Hitender Gautam, Zareen Lynrah, Pradip Kumar Tiwari, Ripu Daman Arora, Nikhil Singh. Diagnostic Method and Instrumentation in Rhinology. Book- Essentials of Rhinology, Publisher- Springer, Singapore (page: 121-155) January- 2021
2. **Mehta R, Nagarkar NM**, ENT Emergencies in Children, IAP Textbook of Pediatric and Neonatal Emergencies, 1<sup>st</sup> Jaypee 2020
3. **Mehta R, Nagarkar NM**, Cancer Of Nose And Paranasal Sinuses, Essentials of Rhinology, Singapore, Springer 2021
4. **Arora R, Nagarkar NM**, Prabha N, Mrinalini R, Nagarkar A. Cerebral metastasis from papillary thyroid carcinoma: Complicated Cases in Vertigo and Dizziness, New Delhi, KWX Communications Pvt. Ltd., 2020, 978-3
5. **Arora R, SINGH N, NAGARKAR NM**, Instrumentation in Rhinology, Essentials of Rhinology: 1<sup>st</sup>, Singapore, Springer, 2021, 122-34

## PATIENT CARE

Evidence based management of all types of ailments of otorhinolaryngology, orbital, head & neck diseases are done. Community outreach activities in the form of various school hearing screening camps, village hearing screening, oral cancer screening camps are organized in collaboration with Department of preventive and social medicine.

Services	OPD	IPD	Major OT	Minor OT
<b>Total</b>	11746	515	111	3267

Services	Audiology	Speech and Language	Total No.
<b>Total</b>	957	165	1122

Department received appreciation certificate for conducting World Hearing Day 2021 activities



## Department of Forensic Medicine and Toxicology

### Professor & Head

Dr. Krishnadutt Chavali

### Additional Professor

Dr. Deepak D'Souza (From 14.10.2020)

### Assistant Professors

Dr. Pankaj Ghormade

Dr. Swapnil Akhade

### HIGHLIGHTS

The department successfully handled all the Covid-19 bodies of the Institute and also conducted autopsies on few Covid-19 positive medicolegal cases. There has been no instance of exchange of bodies, mal-handling of dead bodies, decomposition or piling of dead bodies even at the peak of the wave. The doctors of the department also pitched in for rendering their services in the Covid areas of the hospital as decided by the Institute. Classes were

held for the students in the online mode so as to minimize disruption in their studies and their examinations. It has been decided in principle that three more police station areas would be included within the medicolegal jurisdiction of the Institute and the Institute would also be recognized for medicolegal examinations and certification of cases directly brought by the police or investigation officers.

### EDUCATION

The department holds teaching classes for MBBS 2nd Professional students, MD students and students of Pre Hospital Trauma Technician course. The department also has been approved to take PhD scholars. Annual intake of MD students and PhD scholars is 2 each. Efforts are underway to start DM course in Medical and Forensic Toxicology in the department.

During Covid-19 pandemic, the department continued with the online teaching for the MBBS 2nd professional batch of students and successfully conducted their exams. The department also held the practical examination of its first MD student in August 2020 and the second MD student in February 2021. Both students have been declared passed.

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

Dr. Krishnadutt Chavali

S. No.	Title	CME/Conference	Date	Organised By
1.	Role of Digital Autopsy with Special Reference to COVID-19	National CME on Ethical, Legal, Medical and Educational Challenges during COVID-19 Pandemic – a panoramic view	21.09.2020	Kasturba Medical College, Mangalore
2.	Handling of Postmortem and Medicolegal Cases	Refresher Training of Block Medical Officers	19.03.2021	Chhattisgarh Admin Academy, Raipur

## RESEARCH

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

S. No.	Projects
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.

### Completed

S. No.	Projects
1.	Study of Sexual Dimorphism in Mandibular Canines using Mandibular Canine Index in patients attending Dental OPD at AIIMS Raipur
2.	Study of the prevalence of Atherosclerotic Lesions in Heart and Major Blood Vessels in autopsy cases at AIIMS Raipur

## PUBLICATIONS

- Akhade SP, Ghormade PS, Bhengra A, Chavali K, Hussain N. Uterine scar rupture at the site of the placenta accreta presenting as a case of sudden death. *Autops Case Rep* [Internet]. 2021; 11: e2020226. <https://doi.org/10.4322/acr.2020.226>
- Udayashankar Y, Malle AK, D'Souza DH. An Autopsy Study of Brought Dead Cases at a Tertiary Care Hospital in Port Blair, Andaman and Nicobar Islands. *Medico-Legal Update*. 2020; 20(4):1386-91.
- Rathod VV, Chaudhary UK, Ghormade PS, Keoliya AN. Study of socio-demographic profile of victims in cases of deaths due to homicide. *Indian J Forensic Community Med* 2020;7(2):66-71
- Ghormade PS, Sahu BK, Sharma B. Fatal toxic megacolon during exacerbation of Ulcerative

colitis in Puerperium. JCR 2020; 10:127-31

5. Dash SK, Ghormade PS, Sarma B. Knowledge and Practice of Safety measures by the Agricultural workers using pesticide in Loharsi Gram Panchayat of Durg District, Chhattisgarh: One-year Pilot Study Journal of Indian Society of Toxicology 2020;16(1):12-19.

6. Sarma B, Dash SK, Ghormade PS, RU Ahmed. Death following ingestion of wild mushroom. Journal of Indian Society of Toxicology 2020;16(1):12-19.

7. Darade B, Sabale P, Mohite S, Akhade S, Kulkarni C. Correlation between various Measurements of Sternum with Stature - An Autopsy based Study. Medicolegal Update.2020 July-Sep;20(3) :40-45.

## PATIENT CARE

The department handles the medicolegal work of the institute from admission to discharge as also the medicolegal autopsies. Cases handled by the department in the past year (01.04.2020 to 31.03.2021) are summarized in the following table:

	Medicolegal cases handled	Medicolegal autopsies performed	Embalming of autopsied bodies	Covid bodies handed over
<b>Total</b>	1554	273	05	742

As the Registrar of Births & Deaths of AIIMS Raipur, Dr Swapnil Akhade conducted regular sensitization training for doctors posted in the Covid unit on recording and completing cause of death certificate under Covid-19 orientation programme.

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

- **Dr. Rupjyoti Medhi**, PG JR in the department of Forensic Medicine & Toxicology received the 3rd prize in the International Online Emergency Medicine Video Case Presentation Competition 2020 in the Postgraduate/SR category, conducted by the Academy for Emergency, Trauma & Critical Care Medicine. His case was titled, "Lead Poisoning as a result of quackery – a case presentation."
- **Dr. Swapnil Akhade** successfully completed the Basic Course in Biomedical Research conducted by the ICMR and also the Medical Certification of cause of death (online course) conducted by St. John Medical College & Research Institute, Bangalore.
- **Dr. Krishnadutt Chavali** was invited to judge the annual INSEF Regional Fair 2020. During the FY 2020-21, Dr. Krishnadutt Chavali has attended the below mentioned CMEs, National and International Conferences:-

S. No.	CME/Conference	Date	Organised By
1.	Forensic Entomology in Medicolegal investigations	10.05.2020	SIFS, India
2.	Webinar Training on ERMED resources	03.06.2020	National Medical Library
3.	Recent Advancements in Analysis and Confirmation of Narcotics, Drugs of Abuse, Psychoactive and other Synthetic Compounds.	26.06.2020	Bioinnovations, India
4.	Bitemarks and their forensic importance	27.09.2020	Mody University and INPAFO

S. No.	CME/Conference	Date	Organised By
5.	“PAFMATCON 2020” 18 <sup>th</sup> Annual Conference of the Punjab Acad of Foren Med & Tox.	10.05.2020	PAFMAT
6.	Practice of Forensic Nursing in Post Covid 19 Scenario	18.10.2020	Forensic Talents, India
7.	Annual Snakebite Conference 2020	21 <sup>st</sup> , 24 <sup>th</sup> & 26.11.2020	Amrita Instt. of Medical Sciences, Kochi
8.	TOXOCON-14	21.12.2020 to 23.12.2020	Indian Society of Toxicology

- During the FY 2020-21 **Dr. Pankaj Ghormade**, have attended the below mentioned CMEs, National and International Conferences:-

S. No.	CME/Conference	Date	Organised By
1.	First online course on Medical Education Technologies	22.06.2020 to 20.07.2020	MEU of AIIMS, Raipur
2.	18 <sup>th</sup> annual conference “PAFMATCON 2020”	10.10.2020	Punjab Academy of Forensic Medicine and Toxicology
3.	TOXOCON-14	21 <sup>st</sup> to 23.12.2020	Indian Society of Toxicology
4.	42 <sup>nd</sup> FORENSIC MEDICON	23 <sup>rd</sup> to 24.01.2021	SCBMC, Cuttack

- During the FY 2020-21 **Dr. Swapnil Akhade**, have attended the below mentioned CMEs, National and International Conferences:-

S. No.	CME/Conference	Date	Organised By
1.	Medicolegal Issues in Dead Body donation	13.02.2021	AIIMS, Bhatinda

## Department of General Medicine

### Professor & Head

Prof.(Dr.) Vinay R. Pandit

### Associate Professors

Dr. Md. Sabah Siddiqui

Dr. Preetam N. Wasnik

### Assistant Professors

Dr. Keshao Nagpure

Dr. Pankaj Kumar Kannauje

Dr. Jhasaketan Meher

Dr. Pranita

Dr. Rohini Rokkam

Dr. Ajit Kumar

## HIGHLIGHTS

The department of General Medicine is fully functional with regular OPD, male and female wards. The department is also providing round the clock services at trauma & emergency department. Majority of medical cases (70-80%) including the super speciality cases are admitted and treated by the General Medicine department. The department has started speciality clinics in afternoon, Rheumatology and Immunology Clinic on every

Wednesday, Geriatric clinic, and Sickle cell clinic on every Thursday. It has been planned to expand speciality clinic in other areas. The Medical ICU work is completed and it is has been made operational for patient care. Annual intake of academic residents has been enhanced to 12 from this academic year. It has been planned to start few fellowship course and super speciality courses from next academic year.

## EDUCATION

The department is associated with teaching of undergraduate (MBBS), interns and postgraduate (MD General Medicine) training. With Covid pandemic, most of the MBBS training is done virtual mode. Clinical case scenarios are prepared and they are used for the virtual training. The department has trained more than 200 Assistant Medical Officers (AMO) from the Chhattisgarh on management of non-communicable disease under NPCDCS. The standards treatment protocol for Diabetes and Hypertension for the state of Chhattisgarh has been developed by department in collaboration state with NCD cell. The medical officers of state of Chhattisgarh are given training on this protocol. The department has done training of health care workers organised by National Programme for Health Care of the Elderly (NPHCE). The other training conducted hand hygiene workshop for residents.

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

S. No.	Title	CME/Conference	Date	Organised By
1.	Time 2 Action World Arthritis Day	World Arthritis Day CME	12.10.2020	Dept of General Medicine and Orthopaedics AIIMS Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

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

S. No.	Title	CME/Conference	Date	Organised By
1.	Sudden Cardiac Death in Young	National CME- Challenges in Young Hypertension	26.03.2021	AIIMS Bhathinda

**Dr. Md. Sabah Siddiqui**

S. No.	Title	CME/Conference	Date	Organised By
1.	Panel Discussion on “Management of Sepsis: Investigations and Biomarkers”	IAMICON webinar	22.11.2020	IAMICON

**Dr. Keshao Nagpure**

S. No.	Title	CME/Conference	Date	Organised By
1.	Management of Rheumatoid Arthritis	World Arthritis Day	12.10.2020	Department of Orthopaedics and General Medicine AIIMS, Raipur

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Dr. Nanditha V, Dr. Nishant Jain, Dr. Pankaj Kannuje, Dr. Preetam Wasnik, Dr Vinay Pandit	COVID -19 Infection Complicated by Stroke in Young – A Case Series	Clinical infectious diseases society (CIDSCON) 21-29 November 2020	21- 29.11.2020	Clinical Infectious Disease Society (Virtual conference)

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

**Dr.Md. Sabah Siddiqui**

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Training of Assistant Medical officer under Health and Wellness Centre	Dr. Md. Sabah Siddiqui	State Health Resource Centre Chhattisgarh	Ongoing	2019-ongoing	16,66,000
2.	A clinical trial to evaluate the safety and efficacy of Mycobacterium W in critically ill patients suffering from COVID 19 infection	Dr. Md. Sabah Siddiqui	CSIR-NMTILI	Ongoing	2020-21	52 lakhs
3.	A Multicenter, Phase III, Double-Blind, Randomized, Placebo-Controlled Study to Evaluate the Efficacy of Recombinant BCG VPM1002 in Reducing Infection Incidence and Disease Severity of SARS-COV-2/COVID-19 among High-Risk Subjects.	Dr. Md. Sabah Siddiqui	Serum Inst. of India	9 months	2020-21	37 Lakhs
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 Labs	6 months extended due to COVID	2020-21	4.34 Lacs



S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
5.	Training of Medical Officers on Emergency Triage and Treatment (ETAT)	Dr. Md. Sabah Siddiqui	SHRC	3 years	2019-22	39 Lacs
6.	Training of Assistant Medical Officers on Comprehensive Primary Care (CPHC) under Health and Wellness Centers (HWCs).	Dr. Md. Sabah Siddiqui	SHRC	3 Years	2019-22	5 Lacs

#### Dr.Pankaj Kumar Kannauje

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	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 project	02 years	2020-22	40000/-

#### Dr. Jhasaketan Meher

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Prevalence of Auto-antibodies and Cytokines in patients of Rheumatoid arthritis and its clinical significance in Indian RA cohort	Dr. Jhasaketan Meher	Intramural project	01 year	Approved	500000/-

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

S. No.	Projects
1.	Profile of hospitalized adolescent and adult patients with Sickle Cell Disease in AIIMS Raipur.
2.	Clinical characteristics and outcome among hospitalized patients of COVID-19 central India-single center study from AIIMS Raipur
3.	Evaluation of clinical factors affecting corrected count increment on 1-hour and 24-hour after platelet transfusion
4.	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
5.	Clinical and Epidemiological study of poisoning cases at emergency Department of tertiary care center
6.	Clinical and microbiological profile of spectrum of infection in diabetic patients admitted under medicine department in a tertiary care hospital
7.	Clinical profile antimicrobial sensitivity patterns and in hospital outcomes of the patients with sepsis admitted under medicine department in tertiary care centre
8.	Impact of COVID 19 in management of patients with chronic illness
9.	Study of Association between the degree of Hyponatremia and severity of complication of cirrhosis of liver in tertiary care centre
10.	Clinical profile of patients with atrial fibrillation attending tertiary care hospital in central India.
11.	Clinical profile of adult and adolescent patients with severe anemia presenting to a tertiary hospital in central India: an observational study
12.	Mean Platelet Volume (MPV) and Mean Platelet Volume-To-Lymphocyte Ratio (MPVLR) in Acute Ischemic Stroke.
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
14.	Mean Platelet Volume (MPV) and Mean Platelet Volume to Lymphocyte Ratio MPVLR) in Acute Coronary Syndrome.
15.	Cardiac autonomic neuropathy (can) in newly diagnosed type 2 diabetes mellitus patients
16.	Use of Ambulatory Glucose profile (AGP) in monitoring and control of Gestational Diabetes
17.	Cardiac dysfunction in patients of sickle cell disease at tertiary care hospital of central India

## Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	The standard treatment protocol for diabetes mellitus for CG state	Prof. (Dr.) Vinay R Pandit	NPCDCS	01 year	2020-21	62700/-

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Development of Risk Stratification System for clinical management of Sickle Cell Disease using Predictive Machine Learning Approaches.	NIT Raipur.
2.	Non invasive detection and grading of anemia based on Smartphone photography both in fingernail bed and palpebral conjunctiva.	IIIT Raipur
3.	National Covid Clinical Registry	Surgery
4.	A multi-center, randomized, open label, two arm, safety and efficacy study of Adalimumab in adult patients with severe or critical Corona virus Disease 2019 (COVID-19).	Nephrology
5.	A Prospective, Multi-center, Randomized, Assessor-blind, Parallel-group, Comparative Clinical Endpoint Bioequivalence Study to Compare the Efficacy and Safety of Generic Fluticasone Propionate Inhalation Aerosol (pMDI, HFA 134a) (test drug) (of Macleods Pharmaceuticals Ltd) versus the Reference Listed Drug FLOVENT HFA	Pulmonary Medicine
6.	An Open-Label, Prospective, Randomized, Comparative, Parallel Group, Multi-Center, Proof of Concept Study to Assess the Efficacy and Safety of InosinePranobex added to Current Standard of care (CSC) In Covid-19 Patients	Pulmonary Medicine
7.	A Randomized, Controlled, Open-Label, Multi-center Study To Evaluate The Efficacy And Safety Of Favipiravir with Dexamethasone As Compared To Favipiravir Alone In Moderate Hospitalized Adult Indian COVID-19 Patients (Version 1.0 dated 14-Sep-2020)”	Pediatric Medicine
8.	An open label, prospective, non-comparative, multicentre study to evaluate safety and efficacy of favipiravir in subjects with mild to moderate corona virus disease (COVID-19)	General Medicine
9.	A Phase-IV Post-Marketing Clinical Study Evaluating the Efficacy, Safety and Tolerability of Hetero - Remdesivir Injection in Participants with Severe Corona virus Disease (COVID-19) (HEREMICOV STUDY)	Pharmacology

S. No.	Project	Collaborating Department/Institution
10.	A Phase III, Open-Label, Randomized, Prospective, Multicenter, Parallel Arm Study to Evaluate the Efficacy and Safety of Combination of Favipiravir Plus Umifenovir in Adult Indian Patients with Moderate COVID-19	Pharmacology
11.	A Phase-III, Multicenter, Prospective, Randomize4 Parallel, Clinical Study Evaluating the Efficary, Safety and Tolerability of Hetero-Tocilizumab in Corona virus Disease (Covid- I 9) (TOCICOVID Study)	Pulmonary
12.	A multicentre, single arm, 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.	Pediatric Medicine
13.	Mortality predictor in covid 19 patients	Surgery
14.	Usefulness of stop/start criteria & beers criteria for prescribing in geriatric patients in Tertiary health care center Raipur central India.	Pharmacology
15.	Clinical, virologic, epidemiologic and genetic profile of viral gastroenteritis: The first comprehensive study from Central India.	Department of Microbiology
16.	Usefulness of STOPP /START Criteria and Beers Criteria for prescribing in geriatric patient in tertiary heath care center.	Department of Pharmacology
17.	Medical officers and Nurses training on ETAT(Emergency triage and treatment	State Health Resource Centre
18.	Evaluation of prevalence, regional phenotypic variation, comorbidities, risk factors and the variations in response to different therapeutic modalities	ICMR
19.	Capacity building and strengthening of Hospital Infection Control to detect	ICMR
20.	A multicenter, single arm, phase IV clinical trial to evaluate the safety and efficacy of Itolizumab for the treatment of cytokine release syndrome (CRS)	Biocon Biologics
21.	A Randomized, Double-blind, Two arm, Placebo Controlled Clinical Trial to Evaluate the Efficacy and Safety of Mycobacterium w in preventing COVID-	CSIR-NMTILI
22.	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.	CSIR-NMTILI
23.	A randomized, open-label, multicenter study to evaluate the efficacy and safety of Favipiravir combined with standard supportive care in adult Indian patients with mild to moderate covid-19	Glenmark

## Completed

S. No.	Project	Collaborating Department/Institution
1.	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.	Microbiology

## PUBLICATIONS

- Singaravelu KP, **Pandit VR**, Chinnakali P, Bammigatti C. Pre-hospital care and its association with clinical outcome of snakebite victims presenting at a tertiary care referral hospital in South India. Tropical Doctor. 2021; 51(1):77-80. doi:[10.1177/0049475520966958](https://doi.org/10.1177/0049475520966958)
- Meher J, Nagpure KB, Siddiqui MS, Vishnu Dev A M. Adult-onset Still's disease: A great masquerader triggered by hepatitis A infection. Indian J Rheumatol 2020;15:359-61
- Meher J, Nayak MK. COVID-19 and Hyper inflammation: Role of Steroid in Mild Disease. Journal of Advances in Medicine and Medical Research 2020; 32(23):18-22.
- Debnath N, Nagpure KB, Wasnik PN. Cognitive function in working population with abnormal thyroid function test.- Global Journal for Research Analysis: 2020 ;9(12): 22-24.DOI : 10.36106/gjra

## PATIENT CARE

IPD & OPD patient data

Services	OPD	TELE-MEDICINE	IPD
<b>Total</b>	<b>16368</b>	<b>3519</b>	<b>3542</b>

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

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

- Training of Trainers (ToT) for Medical Officers DM training of Chhattisgarh state in the topic of “Standard Treatment Protocol for Diabetes mellitus for Chhattisgarh State” Role of Diet, Exercise, Drugs in diabetes scheduled from 09 to 12.02.2021 and “Standard Treatment Protocol for Diabetes mellitus for Chhattisgarh State” CG protocol on standards of Care for Diabetes & Acute complications of diabetes from 23 to 26.02.2021 organised by NPCDCS Chhattisgarh State.
- Chaired Session in 4<sup>th</sup> Biennial international ISCSGCON 2021, Indian Stem Cell Study Group Association as Resource faculty on 13<sup>th</sup> & 14<sup>th</sup> February 2021, organised by AIIMS, Raipur.
- Master trainer for the state of Chhattisgarh on “National Viral Hepatitis Control Program” Trained state medical & nodal officers on viral hepatitis on Hepatitis B and Hepatitis C Participated as Resource faculty on 28.01.2021 organised by National Viral Hepatitis Control Programme.
- Successfully completed Stanford Online course certification on “Covid 19 training for health care workers” from 27- 29 .08.2020 organised by Stanford University, USA.
- Successfully completed Stanford Online course certification on “Covid 19 contact tracing” from 02-04.09.2020 organised by Stanford University, USA.
- Appointed as expert for Assessor for assessment of Emergency Medicine course scheduled from 15 to 17.02.2021 organised by National Board of examination (NBE).

7. Special invitee Chhattisgarh State Medical Board for disability assessment scheduled on 29.10.2020 organised by Chhattisgarh State Medical Board, Raipur.
8. Member of Selection Committee for administrative and technical posts scheduled from 1st, 2<sup>nd</sup> February, 2021, organised by IIT Bhilai C.G.
9. Good clinical Practice (GCP) Training workshop scheduled from 14-16 September 2020 organised by AIIMS, Belur, Karnataka
10. Participated as Expert Member for developing protocol Taskforce for development of State Treatment Guidelines of Hypertension Diabetes scheduled on 09<sup>th</sup> December 2020 organised by Chhattisgarh State – SIHFW.

#### **Dr. Md. Sabah Siddiqui**

1. Online training of Medical officers online NCD screening ToT of medical officers of Chhattisgarh state on the topic of Hypertension and Diabetes- screening and management from 06 to 13.01.2021 and Diabetes and Co morbidities from 16 to 19.02.2021 organised by NPCDCS Chhattisgarh state
2. Occupational Exposure and it's Management: Hands on workshop on Infection Control Practices scheduled on 05.01.2020, 22.02.2021 and 24.02.2021 organised by HICC AIIMS, Raipur.
3. Taskforce for development of State Treatment Guidelines for Hypertension Diabetes by Dr. Md. Sabah Siddiqui.
4. Four-day online training Obtained by Dr. Md. Sabah Siddiqui to create a pool of National trainers for Emergency care.
5. 2 days training of Medical officers and Nurses on ETAT( Emergency triage and treatment ) on Cardiac medical Emergency scheduled from 21.06.2021 to 23.06.2021 organised by State Health Resource Centre Chhattisgarh
6. 4 days training of Assistant Medical officer, total 513 CHO trained on Non- communicable diseases scheduled from 9 to 11.7.2020, 2.9.2020 to 5.9.2020, 22.9.2020 to 25.9.2020, 12.1.21 to 15.1.21, 30.6.20 to 6.7.20, 26.10.2020 to 30.10.2020, 15.12.2020 to 19.12.2020, 9.7.2020- 11.7.2020, 2.9.2020 to 5.9.2020, 22/9/2020 to 25.9.2020, 12.1.21 to 15.1.21, 30.6.20 to 6.7.20, 26.10.2020 to 30.10.2020, 15.12.2020 to 19.12.2020, 1.2.2021 to 5.2.2021 & 15.2.2021 to 19.2.2021, 22.2.2021 to 26.2.2021, 1.3.2021 to 5.3.2021, 15.3.2021 to 19.3.2021, 22.3.2021 to 26.3.21organised by State Health Resource Centre Chhattisgarh

#### **Dr. Jhasaketan Meher**

1. Training of Medical Officer involved in COVID Home isolation of Raipur District: a Web based training of MO of Chhattisgarh.

#### **Dr. Pranita**

1. On line certificate course on diabetes scheduled from 01.12.2019 to 30.11.2020, organised by IDIAL accredited by EACCME
2. Training Obtained in Medical Education Program scheduled from 24<sup>th</sup> June-16<sup>th</sup> July 2020 organised by Medical Education Unit, AIIMS, Raipur.

#### **Dr. Rohini Rokkam**

1. On line certificate course on diabetes: Cleveland Clinic Advanced certificate course and European association for the study of Diabetes symposium scheduled from 29-30th August 2020 organised by European association.

#### **Dr. Ajit Kumar**

1. Training Obtained from Medical Education Program scheduled from 24<sup>th</sup> June-16<sup>th</sup> July 2020 organised by Medical Education Unit, AIIMS, Raipur

## Department of General Surgery

### **Additional Professor & Head**

Dr. Debajyoti Mohanty

### **Associate Professors**

Dr. Radhakrishna Ramchandani

Dr. Tridip Dutta Baruah

Dr. Dharmendra Dugar

### **Assistant Professors**

Dr. Rubik Ray

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 had high end 4K laparoscope system for carrying out minimal invasive interventions. The Department had also started 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 continued its round the clock emergency services throughout the COVID period.

## EDUCATION

The Department undertakes 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 evaluated by internal 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. Online classes are also being held for undergraduate students to facilitate continuous learning process.

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.

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

**Dr. Debajyoti Mohanty**

S. No.	Title	CME/Conference	Date	Organised By
1.	Steps of Safe Laparoscopic cholecystectomy	CG ASICON 2021	06.03.2021	

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Manju R , Mohanty D, Dugar D, Saha A, Pati S	Post-operative idiopathic reversible encephalopathy syndrome	ASICON 2020	14.12. 20	Virtual conference
2.	Waliya A, Mohanty D, Ray R, Das P	Comparison of incidence of surgical site infection of umbilical extraction port with and without 10% povidone iodine irrigation in patients undergoing laparoscopic cholecystectomy	ASICON 2020	14.12. 20	Virtual conference
3.	Samal S, Ramchandani R*	Comparison of postoperative outcomes with skin flap raising by harmonic scalpel versus electrocautery during mastectomy*	CG ASICON 2021	06.03.21	Department of General Surgery in Agies of Indian Association of Surgeons CG Chapter
4.	Ray R, Manju R Baruah TD, Ganguly S	Tale of an ulcer- it's not always what it seems!	CG ASICON 2021	06.03.21	Department of General Surgery in Agies of Indian Association of Surgeons CG Chapter
5.	Nayak D, Ray R, Baruah TD , Mohanty D	Pancreatic Lymphangioma – A rare abdominal lymphangioma	CG ASICON 2021	06.03.21	Department of General Surgery in Agies of Indian Association of Surgeons CG Chapter



S. No.	Authors	Title	Conference	Date	Organised By
6.	Manju R, Baruah TD, Anand C, Ray R	A prospective study of preoperative and postoperative intra-abdominal pressure monitoring in patients undergoing emergency laparotomy for hollow viscus perforation	CG ASICON 2021	06.03.21	Department of General Surgery AIIMS Raipur in Agies of Indian Association of Surgons CG Chapter
7.	Shrimor P , Baruah TD , Ray R	Rare case of persistent omphalomesenteric duct (umbilical cyst and Meckels diverticulum ) causing small bowel obstruction in adult	CG ASICON 2021	06.03.21	Department of General Surgery AIIMS Raipur in Agies of Indian Association of Surgons CG Chapter
8.	Suhail M, Dugar D	Perinephric abscess sequeled into acute intestinal obstruction	CG ASICON 2021	06.03.21	Department of General Surgery in Agies of Indian Association of Surgeons CG Chapter
9.	Suhail M, Dugar D	A case of ventriculoperitoneal shunt knot causing intestinal obstruction in an adult	CG ASICON 2021	06.03.21	Department of General Surgery in Agies of Indian Association of Surgeons CG Chapter

## RESEARCH Funded Projects Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year- End year	Total funds sanctioned (Rs.)
1.	National Clinical Registry Of Covid-19	Dr. Tridip Dutta Baruah	ICMR	01 Years (To be extended)	Sept. 2020-Augt. 2020	Approx 39 Lakhs

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

S. No.	Projects
1.	Comparison of Postoperative Outcomes with Skin Flap Raising by Harmonic Scalpel versus Electrocautery during Mastectomy
2.	Evaluation of Prognostic Factors in Necrotizing Soft Tissue Infections
3.	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.
4.	Early versus Delayed Postoperative Dressing Removal and Incidence of Surgical Site Infection: A Randomized Controlled, Blinded, Pilot Study among Indian population.
5.	Comparison of Topical Sucralfate Plus Metronidazole Ointment with Diltiazem Ointment for the Treatment of Acute Fissure in Ano.
6.	Prevalence of Gastrointestinal Symptoms in Covid-19 Patients- A Cross-Sectional Study.
7.	Impact of Covid-19 Pandemic on waitlisted Elective Surgical Patients in a Tertiary Care Hospital : Problems and Solutions

### Completed:

S. No.	Projects
1.	Incidence of Surgical Site Infection of Umbilical Extraction Port with and without 10% Povidone Iodine Irrigation in Patients undergoing Laparoscopic Cholecystectomy

## Collaborative Projects Ongoing

S. No.	Project	Collaborating Department/Institution
1.	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	Department of Pharmacology, AIIMS, Raipur
2.	Intensive Glycemic Control for Diabetic Foot Ulcer Healing: A Multicentric Randomized Controlled Study.	Dept Of Endocrinology, AIIMS-Raipur
3.	Mortality Predictors in Covid-19 Patients: A Retrospective Observational study	Dept Of Medicine, CFM and Paediatric Surgery, AIIMS-Raipur
4.	Outcome Analysis of Malignancy in COVID-19 Patients: A Single Centre Retrospective Cohort study	Dept Of Medicine, CFM and Paediatric Surgery, AIIMS-Raipur

S. No.	Project	Collaborating Department/Institution
5.	Assessment of Accuracy of Clinical Evaluation with Respect to Radiological and Intra-Operative findings in Patients of Acute Abdomen”	Department of Radiodiagnosis
6.	MDCT and USG Correlation in Severity of Acute Pancreatitis	Department of Radiodiagnosis
7.	Application of Sydney System for Lymph Node Cytology at a Tertiary Care Center in Central India	Department of Pathology
8.	“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

### Completed:

S. No.	Project	Collaborating Department/Institution
1.	Implementation Research Associates For Patient safety (IRAP-S)	AIIMS-Mangalagiri, AIIMS-Bhbaneshwar, NID Vijayvada

## PUBLICATIONS

- Chaudhary MK**, Dhakaita SK, **Ray R**, **Baruah TD**. Local complications of intravenous access – an often underestimated entity. J Family Med Prim Care 2020;9:6073-7.
- Chaudhary MK**, **Ray R**, **Baruah TD**, **Shankar M**. Granular Cell Tumor of Female Urethra – the Second Such Reported Case. MAEDICA ;2020; 15(3): 409-411
- Chaudhary MK**, **Shankar M**, **Baruah TD**, **Ray R**, **Samal S**. Laparoscopic management of appendicular lump. Int Surg J 2020;7: 3065-3067.
- Biswas D, Sengupta M, **Ray R**, Saha S, Sinha R, Ghosh D. Induction of labour with foley catheter is better alternative to misoprostol. Int J Clin Obstet Gynaecol 2020;4(4): 327-329.
- Ray R**, Mondal D, Mukherjee A. An unusual complication of oral hygiene–traumatic implantation of a toothbrush. J Evolution Med Dent Sci 2021;10(04):246-247.
- Haldar A, Swain JR, **Mohanty D**, Majumdar R. Gallbladder carcinoma: epidemiology, risk factors and modes of presentation in eastern part of India. Annals of Clinical case reports 2020 Apr; 5: 1-5
- Borkar NB, **Mohanty D**, Hussain N, Dubey R, Singh S, Varshney A. [A rare case of congenital ranula](#). Afr J Paed Surg 2021; 18 (2): 106

## PATIENT CARE

Services	OPD/Tele OPD	IPD	Procedure Room	Minor OT	Major OT
<b>Total</b>	9718	829	3555	203	498

### Special Clinics:

Breast Clinic: Weekly once on Wednesday (551 patients over 12 months)

Hepatobiliarypancreas Clinic: Weekly once on Tuesday

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Dr. Debajyoti Mohanty:

1. Appointed member of Board of studies for General surgery at AIIMS, Gorakhpur
2. Faculty for postgraduate students in the ASI regional refresher course for central zone
3. Facilitator for virtual SCOPE course 2021 conducted by Delhi Medical Council and PG master class 2021 by IMS, BHU

### Dr. Tridip Dutta Baruah:

1. Certification in Good Clinical Practice from National Institute on Drug Abuse, National Institutes of Health, Department of Health and Human Services , US
2. Participation in 12<sup>th</sup> annual international course in health research methodology and research based medicine conducted by St John's Medical College and research institute, Bengaluru

### Dr. Rubik Ray:

1. Fellow of Association of Indian Surgeons – December 2020
2. Certification in Basic Course in Biomedical Research from NPTEL
3. Certification in Good Clinical Practice from National Institute on Drug Abuse, National Institutes of Health, Department of Health and Human Services , US

## Department of Microbiology

### Professor & Head

Dr. Anudita Bhargava

### Additional Professors

Dr. Padma Das

Dr. Ujjwala Gaikwad

### Associate Professors

Dr. S.S.Negi

Dr. Archana Keche (From 07.10.2020)

### Assistant Professor

Dr. Pragya Agarwala (From 22.10.2020)

## HIGHLIGHTS

First batch of two PG students passed MD-Microbiology Examination in January 2021. Seventh batch of MBBS students passed 2<sup>nd</sup> Professional examination in February 2021. Five more PG students joined MD Microbiology course in January 2021. Seventh batch of BSc. Nursing students passed Microbiology in 2020. Nearly 2.5 lakh RT PCR tests for SARS-CoV-2 were conducted in the Molecular Biology laboratory of VRDL, Department of Microbiology, AIIMS Raipur from April 2020- March 2021. A state of the art Tuberculosis laboratory with BSL-3 facility was inaugurated on 24th March 2021 by the President of AIIMS Raipur, Dr. George D'Souza and Director, AIIMS Raipur Dr. Nitin M Nagarkar. Mycobacteriology laboratory, AIIMS Raipur got accreditation from Central TB Division for performing Line probe assay (LPA) against the First line antitubercular drugs. Renovation work of Serology Laboratory was completed in the department. Laboratory services were imparted round the clock, including holidays with gradual increase in spectrum of available test lists, in all the fully functional diagnostic sections of

the department including Bacteriology, Serology, Tuberculosis, Mycology, Virology and Infection control. Most of the infection control activities were focused in COVID wards with repeated trainings and sensitization of all cadres of HCWs. Dedicated ICNs were posted in COVID areas of AIIMS-Raipur to monitor infection control practices of HCWs posted in these areas. Hospital infection Control Committee with the lead from Microbiology department developed recommendations and educational material for Infection control against COVID-19, implemented the onsite round the clock infection control monitoring process and provided extensive trainings on basic ICPs to more than 3000 HCWs of AIIMS-Raipur as well as of various government health care facilities of Chhattisgarh, throughout the year. All the faculty of the department received sanction of various new extra-mural and intramural research grants and continued working on their already running projects. Some research projects were also completed.

## EDUCATION

1. Department has teaching responsibilities for following graduation and post-graduation courses-
  - MD (Microbiology)
  - MBBS (IInd Professional)
  - B.Sc (Hons.) Nursing
  - B.Sc MLT
  - B.Sc OT Technician
  - Pre-Hospital Trauma Technician

- HOD, Microbiology is the course coordinator for BSc, MLT 2020 batch.
- All the theory classes of all the undergraduate courses and seminars and journal clubs of MD course were conducted on on-line mode.
- Practical classes of MBBS 2018 batch were conducted offline in December 2020-January 2021. Dr. Archana Wankhede Keche was appointed as external examiner for 2<sup>nd</sup> MBBS Microbiology in Chandulal Chandrakar Memorial Medical College, Durg from 22-10-20 to 25-10-2020.

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

S. No.	Title	CME/Conference	Date	Organised By
1.	CME on Tuberculosis elimination: The clock is ticking	CME	24.03.2021	Department of Microbiology and Pulmonary Medicine, AIIMS-Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Anudita Bhargava

S. No.	Title	CME/Conference	Date	Organised By
1.	Corona Virus Infection: Practical Aspects	CME at AIIMS Raipur: COVID-19 Update	April 2020	AIIMS, Raipur
2.	SARS CoV-2: Virology, Laboratory Testing & Infection Control Practices	Webinar under Ministry of Foreign affairs with SAARC countries	July 2020	Ministry of Foreign affairs
3.	Mechanisms of Carbapenem Resistance	Webinar by Indian Sepsis Forum (ISF)	18.12.2020	Indian Sepsis Forum (ISF)

### Dr. Padma Das

S. No.	Title	CME/Conference	Date	Organised By
1.	Specific Learning Objective	National online workshop for Teaching Methodology	July 2020	AIIMS, Raipur
2.	MCQ and Item Analysis	National online workshop for Teaching Methodology	July 2020	AIIMS, Raipur

### Dr. Ujjwala Gaikwad

S. No.	Title	CME/Conference	Date	Organised By
1.	Novel and Improved Diagnostics for Tuberculosis	CME on Modern trends in Tuberculosis under NTEP	08.01.2021	Shri. Shankaracharya Institute of Medical Sciences, Bhilai
2.	Hand Hygiene	Refresher training programme for Dialysis Technicians on World Kidney Day	08.03.2021	Department of Nephrology, AIIMS Raipur

S. No.	Title	CME/Conference	Date	Organised By
3.	Diagnostic Modalities in Tuberculosis	CME for Private practitioners on "Updates on NTEP"	21.3.2021	NTEP Core committee and state TB cell Chhattisgarh
4.	Diagnostic Modalities in Tuberculosis	Sensitization of Nursing officers and paramedical staff as a part of World TB week celebration	19.3.2021 and	NTEP Core committee and state TB cell Chhattisgarh

### Dr. Sanjay Singh Negi

S. No.	Title	CME/Conference	Date	Organised By
1.	COVID-19: The Disease and Molecular Diagnostic Approaches	webinar on Computer aided Drug Discovery against COVID-19 at NIT, Raipur	25.8.2020	NIT, Raipur

## ORAL PAPERS/POSTERS PRESENTED

### Dr. Archana B. Wankhade

S. No.	Authors	Title	Conference	Date	Organised By
1.	Archana B. Wankhade, Karishma Wasnik, Preetam Wasnik, Padma Das	Oral paper - Detection of Virulence factors in colonized strains of Candida species isolated from diabetic patients. (Won first prize in oral presentation)	<a href="#">clinicomycoupdate-2020</a> *Best paper award	26 <sup>th</sup> June 2020	Department of Microbiology Shri Ramchandra institute of Higher Education & Research institute, Chennai

### Dr. Padma Das

S. No.	Authors	Title	Conference	Date	Organised By
1.	N. Srivastava, P. Das, A. B. Wankhade et.al.	Penicillin resistant ampicillin sensitive Enterococcus faecalis: A jigsaw puzzle	AIIMS ASM 2020	07-08.10.2020	AIIMS, Delhi
2.	P. Das, S. Venkateshan, A. B. Wankhade et al.	A retrospective analysis of clinical isolates of Coagulase negative Staphylococcus	E- MICROCON 2020	08 - 11.12.2020	AIIMS, Delhi

S. No.	Authors	Title	Conference	Date	Organised By
3.	P. Das, Padhi A. et al.	Linezolid resistant Streptococcus haemolyticus: A case report	E- MICROCON 2020	08 – 11.12.2020	AIIMS, Delhi

## RESEARCH

### Funded Projects

#### Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Validation of various COVID-19 Rapid Antigen Detection kits, as per request from ICMR.	Dr. Anudita Bhargava	Department of Health and Research-Indian Council of Medical Research (ICMR)	One year	December 2020- November 2021	3,00,000=00
2.	SARS-CoV-2 Sero-surveillance among healthcare workers at a tertiary care reference center in Central India: A Cross-Sectional Study.	Dr. Anudita Bhargava	AIIMS-Raipur	Three months	May to July 2021	4,99,568=00
3.	Microbiological Surveillance of SNCUs of Chhattisgarh	Dr. Anudita Bhargava	UNICEF-CG	Three and a half years	2018-2021	~2 crores
4.	State level Viral Research and Diagnostic Laboratories	Dr. Anudita Bhargava	DHR-ICMR	Five years	2017-2022	4.5 crores
5.	Monitoring of Dengue and Chikungunya Viruses circulating in India for changes in the Serotypes, Genotype and Lineages utilizing Viral Research & Diagnostic Laboratories Network.	Dr. Anudita Bhargava	Under VRDL	Two years	2019-2021	VRDL budget



S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
6.	Assessment of Neuraminidase Inhibitor susceptibility by detecting H275Y Mutation in Influenza A (H1N1) pdm09 virus during 2018-2019 season.	Dr. Anudita Bhargava	AIIMS-Raipur	Three months	May to July 2021	4,99,568=00
7.	Capacity Building and Strengthening of Hospital Infection Control to detect and prevent Antimicrobial Resistance in India	Dr. Padma Das	ICMR	1 year	2020-2021	10 Lakhs
8.	ICMR ad hoc project on AMSP	Dr. Padma Das	DHR-ICMR	Five years	2017-2022	4.5 crores
9.	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 (RNTCP)	2 years	Sep 2019 to Sep 2021	2 Lakhs
10.	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	01 Years	2021-2022	5 Lakh

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
11.	Spectrum of Dermatophytic infections & drug susceptibility pattern of dermatophytes from patients of AIIMS, Raipur	Dr Archana B. Wankhade	Intramural	1year	Dec2019 -Dec 2020	4,99,720/-

### Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Prevalence of Scrub typhus and Leptospirosis in cases of Acute Febrile Illness in a tertiary care institute in Central India: A Pilot Study <sup>1</sup> .	Dr. Anudita Bhargava	AIIMS Raipur	Two years	2018-2020	3,94,900=00
2.	Screening for high-risk Human Papilloma Virus (HPV) genotypes by real time PCR in women with premalignant and malignant cervical pathology: A hospital based study from Raipur, Chhattisgarh.	Dr. Sanjay Singh Negi	DST-SERB	3Years	Oct, 2017-Sept, 2020	9.61 Lakh

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

S. No.	Projects
1.	Occult Hepatitis B Infection (OBI) among Chronic kidney disease(CKD) patients in a tertiary health care center: A preliminary study.(Thesis dissertation of PG student)
2.	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)
3.	Comparison of diagnostic modalities for Mycoplasma pneumoniae in clinically suspected pneumonia cases in the 5-15 year age group. (Thesis dissertation of PG student)

S. No.	Projects
4.	Genotypic and Phenotypic differentiation and clinico-epidemiological profile of Mycobacterium tuberculosis complex isolates from a tertiary care hospital in Chhattisgarh (Thesis dissertation of PG student)
5.	Diagnostic Accuracy of Lipoarabinomannan antigen detection in pleural Tuberculosis (Thesis dissertation of PG student) (Thesis dissertation of PG student)
6.	Developing In-House Polymerase Chain Reaction (PCR) for ameliorating diagnostic modalities of Scrub Typhus and its comparison with IgM capture ELISA. (Thesis dissertation of PG student)
7.	Clinico-mycological Study of Spectrum of Pulmonary Aspergillosis in Central India (Thesis dissertation of PG student)

## Completed

S. No.	Projects
1.	Analysis of enterococcal isolates from clinical specimens with special reference to antibiogram and virulence markers.(MD Thesis)
2.	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”.(MD Thesis)
3.	3C Bundle approach to prevent blood stream infections due to Carbapenem resistant Enterobacteriaceae in Neonates: An infection control strategy. (ICMR STS project)
4.	Detection of Candida auris colonization in HDU patients in a tertiary care hospital in central India and detection of the biofilm production in these strains.

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	A Multicentric Project Funded by Bill and Milinda Gates Foundation Titled 'Burden of Multidrug-Resistant Neonatal Sepsis in District Hospital settings in India'. Principal Investigator- Dr. Atul Jindal	Pediatrics
2.	Clinical, Virologic, Epidemiologic and Genetic Profile of Viral Gastroenteritis: The First Comprehensive Study from Central India. Principal Investigator- Mr. Kuldeep Sharma (VRDL)	Pediatrics
3.	Detecting Vertical Transmission of Beta coronavirus SARS-CoV-2 from Infected Pregnant Women to Fetus in Utero. Principal Investigator- Prof. Sarita Agarwal	Obstetrics and Gynecology

S. No.	Project	Collaborating Department/Institution
4.	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. Extramural: Funded by WHO Principal Investigator- Prof. Sarita Agarwal	Obstetrics and Gynecology
5.	Capacity Building and Strengthening of Hospital Infection Control to Detect and Prevent Antimicrobial Resistance in India Extramural: Funded by WHO Principal Investigator- Prof. Sarita Agarwal	AIIMS, New Delhi, All ICUs of AIIMS, Raipur
6.	Burden of Multidrug-Resistant Neonatal Sepsis in District Hospital settings in India Principal Investigator- Prof. Sarita Agarwal	Department of Pediatrics-AIIMS-Raipur Institutions- AIIMS-New Delhi, AIIMS-Jodhpur, AIIMS-Raipur, JIPMER Puducherry, GMCH-Chandigarh & Assam Medical College and Hospital-Dibrugarh
7.	AIIMS, Raipur: Initiating Antimicrobial Stewardship Activities in Hospitals in India	AIIMS, New Delhi, Hospital administration, Dept. of Pharmacology & All ICUs of AIIMS, Raipur
8.	Evaluation of Prevalence of HPV in Head and Neck Malignancies.	ENT
9.	The Immunohistochemical Biomarker BCL2 Expression in Malignant and Premalignant Lesions of Uterine Cervix and their Correlation with Human Papilloma Virus Infection.	OBG
10.	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).	OBG

## Completed

S. No.	Project	Collaborating Department/Institution
1.	The Effects of COVID-19 Pandemic Stress on Academic Performance of Medical Students of AIIMS, Raipur	Department of Psychiatry, Biochemistry, Pharmacology of AIIMS, Raipur

## PUBLICATIONS

1. **Vikram K, Agarwala P, Bhargava A**, Jain Y, Jagzape T, Wasnik P. Scrub typhus and leptospirosis in rural and urban settings of central India: a preliminary evaluation. *Trop Doct.* 2020; 50(2):111-115.
2. Mathias A, **Das P**, Jindal A et al. Recurrent Bacterial Invasion in cases of Pediatric Cystic Fibrosis: A Microbiological Scintillation. *International J of MedSci and CurrRes.* September-October 2020; 3(5):472-479.
3. **Das P, Vikram K, Gaikwad Net al**, Quality assessment of biomedical waste management practices at a tertiary care center by implementing daily and monthly audit. *International J of MedSci and CurrRes.* 2020; 3(4):174-183.
4. Chhabra N, Khare S, **Das P, Wankhade AB.** Clinicomycological profile of chronic dermatophytosis in a tertiary care center from Raipur, Chhattisgarh. *Indian Dermatol Online J.* 2021; 12: 165-8.
5. **Patro P, Das P.** et al. Intrinsically resistant bacteria as looming disaster: A rare case report of Elizabethkingiameningoseptica meningitis in a neonate. *J Lab Physicians* 2021; 13(01): 70-73.
6. **Sharma P, Das P**, Nehete L, **Wankhade A.B.** Streptococcus constellatus causing Brain Abscess: A Case Report, *Int J Biol Med Res.* 2021; 12(1):7253-7255
7. **Negi SS, Sharma K, Mathia A, Gandhi D, Aggarwala P, Sharma S**, et al. (2021). 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; 16(4): e0249408.
8. **Negi SS, Sharma K, Sharma D, Singh P, Agarwala P**, Hussain N, et al. Characterisation of Intratypic HPV16 E6/E7 variants obtained from cervical cancer cases in Raipur, Chhattisgarh. Accepted in *As Pac J Can Prev.*
9. Nayak PK, Hussain N, **Negi SS**, Aggarwal S, Bagde N, Singh V, et al. (2020) The immunohistochemical biomarker B-cell lymphoma-2 expression in malignant and premalignant lesions of the uterine cervix and its association with human papillomavirus infection. Accepted in *J Can Res Ther.*
10. Aggarwal S, Dubey SS, **Negi SS, Das P**, Behra A. (2020) The ultraviolet germicidal chamber for decontamination of N95 face filter respirator. *Int J Sci Res.* 9 DOI:10.36106/ijsr.
11. **Wankhade AB**, Sahu V, Sharma P, **Das P.** Keratitis due to a Rare Fungus *Colletotrichum dematium*: A Case Report. *Journal of Clinical & Diagnostic Research* 2021; 15 (2):3-4.
12. **Sharma P, Wankhade AB, Gaikwad U, Das P.** Detection of slow growing Actinomadura species proved a key for management of mycetoma: A case report from Chhattisgarh. *J Family Med Prim Care* 2020; 9:3745-8.
13. Chaitra Shankar, Jobin John Jacob, Suganya Gopal Sugumar, Lavanya Natarajan, Camilla Rodrigues, Purva Mathur, Dip Narayan Mukherjee, Anita Sharma, D.S. Chitnis, **Anudita Bhargava**, Abi Manesh, Karthik Gunasekaran and Balaji Veeraraghavan. 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
14. 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>

proceedings. A. Bhargava, A. Trakroo, D. Dash, R. Pandey, J. Singh, A. K. Thakur, **P. Agarwala**. First comprehensive study on neonatal septicemia at secondary-level public health care facilities in

Central India: An eye opener. *Intern J Infect Dis* 101(S1) 2021: 437-443.  
<https://doi.org/10.1016/j.ijid.2020.09.1156>

## **PATIENT CARE**

1. Standardized and started RT-PCR test of COVID-19 infection in AIIMS, Raipur and also involved in imparting training on COVID-19 rRT-PCR test to Microbiologist of various medical colleges, district hospitals and private laboratories of Chhattisgarh.
2. Provided 24 x 7 diagnostic services to the hospital even during COVID pandemic.
3. Performed 2,67,230 RT PCR tests for SARS-CoV-2 for the OPD and IPD patients of AIIMS Raipur and for the samples received from various districts of Chhattisgarh, from April 2020 till March 2021.
4. Apart from RT PCR tests for SARS-CoV-2, other diagnostic tests performed during this period **71884** (Seventy-one thousand eight hundred and eighty-four)
5. A total of approximately 2.5 lakh tests were performed for RTPCR for SARS-CoV-2.

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

1. Received patent for SARS-CoV-2 Multiplex Real Time PCR Primer and Probes, that was developed in the department.
2. VRDL, Department of Microbiology is the Nodal center for SARS-CoV-2 testing by RT PCR, providing mentorship for expansion of SARS CoV-2 RT PCR facilities in all the government and private Medical colleges and District hospitals of Chhattisgarh and Jharkhand.
3. VRDL, Department of Microbiology is also the QA-QC center for performing EQAS (External quality assurance scheme) for SARS CoV-2 RT PCR test, designated by ICMR.
4. VRDL, Department of Microbiology is also the validation center for new Rapid antigen test kits developed by various manufacturers for SARS-CoV-2. Till March 2021 a total of four RAT have been validated.
5. A state of art Tuberculosis laboratory with BSL-3 facility was inaugurated in March 2021.
6. Dr. Sanjay Singh Negi was nominated as master trainer to provide training for diagnostic testing of COVID-19.
7. Dr. Archana Wankhede Keche is the master trainer in National Viral Hepatitis Control Program, providing training to Doctors and Laboratory technicians of public sector hospitals of Chhattisgarh.
8. Faculty was invited as judge to evaluate the scientific poster session in E - Microcon 2020 organized by IAMM on 8-11th December 2020.

## **VISITING SCIENTIST**

1. Dr. Rahul Narang – Professor & Head, Microbiology Department, AIIMS Bibinagar, Telangana
2. Dr. Rajendra Surpam – Professor & Head, Microbiology Department, GMC, Chandrapur, Maharashtra.
3. Dr. Maitreyi Bandyopadhyay, Professor & Head, Microbiology Department, R.G. Kar Medical College, Kolkata, West Bengal.
4. Dr. T. Karuna – Additional Professor, Microbiology Department, AIIMS Bhopal, Madhya Pradesh

## Department of Neonatology

### Assistant Professor & In-charge

Dr. Phalguni Padhi

### HIGHLIGHTS

Neonatal unit is capable of managing extreme premature babies with provision of highest level of neonatal care with compassion. Isolation unit with negative pressure ventilation was also set up.

In both waves of COVID-19, the Department has managed COVID suspected and Covid positive babies in isolation area.

Department of Neonatology is also running 'Centre of

excellence for Kangaroo Mother Care' in collaboration with UNICEF at Neonatal Unit. It is an eight bedded unit where training of trainers is being conducted (20 successful batches of trainers have been completed).

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

### EDUCATION

1. Training of trainers for Kangaroo mother care at SNCU. Already 20 batches of medical officers and nurses have been trained for this purpose.
2. Mentoring visit and training of medical officers/nurses at SNCU.
3. Teaching and training program of Medical officers posted for 6 week pediatric training.
4. Regular theory classes of MBBS students as per schedule regarding neonatology (online and in LTs) with training of interns posted in NICU for basic neonatal care. (Total theory classes 05 and total no of clinical classes 10).
5. Training and presentation by nursing officers once per week is also performed.
6. Interdepartmental teaching of fellows is also regularly done.

### RESEARCH

#### Funded Projects

#### Ongoing- collaborative heading

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year- End year	Total funds sanctioned (Rs.)
1.	Study of Emerging Biomarkers in Acute Kidney Injury in Term Neonates with Perinatal asphyxia – A Nested Case Control Study	Dr. AK Goel	AIIMS, Raipur	2 year	June 2018	5,00,000/-

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
2.	Initiating Antimicrobial Stewardship Activities in Hospitals in India	Dr. Padma Das	AIIMS, Raipur	1 year	June 2018	5,00,000/-
3.	Analyzing Platelet and FFP Transfusion in Infants and Best Recommendations	Dr. Sankalp Sharma	AIIMS, Raipur	2 year	June 2019	5,00,000
4.	Detecting Intrauterine Transmission of Sarscovid 19 from	Dr. Sarita Agarwal	AIIMS, Raipur	2 year	June 2019	5,00,000

### Departmental Projects (including thesis/dissertations) Ongoing

S. No.	Projects
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”
2.	Incidence of Anaemia and need for Blood Transfusion-Prospective Observational study
3.	Intranasal Fentanyl versus Oral Paracetamol as an Adjunct to Non-Pharmacological Bundle of Care for Pain Management during Screening for Retinopathy of Prematurity in Preterm Infants: A Randomized Control Trial
4.	Continuous Versus Intermittent Bolus Orogastric Tube Feeding in Very Low Birth Weight Neonates- A Randomized Clinical Trial

### Collaborative Projects Completed

S. No.	Project	Collaborating Department/Institution
1.	Correlation between Abnormal CTG and Cord ABG	Department of Obstetrics & Gynaecology

### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Prenatal Diagnosis of Congenital Anomalies- Prevalence, Pattern and Perinatal outcome	Department of Obstetrics & Gynaecology
2.	Assosiation of ROP severity and postnatal weight loss	Department of Obstetrics & Gynaecology



S. No.	Project	Collaborating Department/Institution
3.	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

## PUBLICATIONS

- Bhaumik S, Patel S, Padhi P. Glucose-6 phosphate dehydrogenase deficiency and newborn screening. *Int J Res Med Sci.* 2020;8(12):4538-43.
- Patel S, Padhi P, Priya R, Naik T, Abraham J, Nanda R, Mohapatra E, Agrawal S. A cross-sectional study on Parental Awareness for Newborn Screening and Assessment of Burden of Congenital Hypothyroidism and G6PD Deficiency. *Ind J Comm Fam Med.* 2020;6(2):132-6.
- 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.
- Patro P, Das P, Padhi P. Intrinsically Resistant Bacteria as Looming Disaster: A Rare Case Report of Elizabethkingiameningoseptica Meningitis in a Neonate. [J Lab Physicians.](#) 2021 Mar; 13(1): 70-73.

## Chapter in book

S. No.	Author(s)	Chapter	Name of the Editor	Book	Edition	City of Publication	Publisher	Year of Publication
1.	Dr. Phalguni Padhi	Periventricular Leukomalacia	Dr. N. Kabra	IAP NNF Textbook of Clinical Neonatology	1st	Mumbai	Jaypee	2021

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

Organized celebration of breast feeding Week from from 1-5.08.2020.

## Department of Nuclear Medicine

### Professor and Head

Dr. Karan Peepre (Till 31.05.2020)  
(On Contract from 10.11.2020 to 18.01.2021)

### Assistant Professor

Dr. Mudalsha Ravina

## HIGHLIGHTS

The 52<sup>nd</sup> annual conference of the Society of Nuclear medicine, India was organized by the Department of Nuclear Medicine.

The organizing chairman was Dr. Karan Peepre and organizing secretary Dr. Mudalsha Ravina. The conference took place from December 11<sup>th</sup> – 13<sup>th</sup>, 2020 and it was the first ever HYBRID event (with an on-site and a virtual component) to be organized by the Society of Nuclear Medicine – India (SNMI); attracting around 700 scientists, doctors, technologists & colleagues from all over the world. This was being done to ensure the safety of all participating members in the current situation of COVID-19 pandemic. This year's conference theme was “Nuclear Medicine-Redefining Precision

Oncology”. The meeting included an extensive scientific programme consisting of more than 45 lectures, 3 orations, oral paper and poster presentations by national and international faculties. A total of 135 abstracts were submitted and several awards were given for best presentations. Positron emission tomography-computerized tomography (PET-CT) equipment was inaugurated by Shri. Ashwini Kumar Choubey, Honorable Minister of State, MOHFW, Govt of India on 20.03.2021 in the august presence of Prof. (Dr.) Nitin M Nagarkar. It is the first state of art installation in a government institute in the state of Chhattisgarh and also the first installation amongst all the new AIIMS.

## EDUCATION

Dr. Amal Moideen went for 03 weeks training at PGIMER, Chandigarh in January 2021.

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

S. No.	Title	CME/Conference	Date	Organised By
1.	SNMICON-2020	Annual Conference of the Society of Nuclear Medicine, India	11.12.2020 TO 13.12.2020	Department of Nuclear Medicine, AIIMS Raipur

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Aurthors	Title	Conference	Date	Organised By
1.	Lukose TT, De S, Rangnath T G, <b>Ravina M</b> , Sahu D	Lung perfusion scintigraphy with single photon emission CT/CT- an useful tool in evaluation of suspected pulmonary embolism in post COVID-19 pneumonia	SNMICON-2020	13.12.20	AIIMS, Raipur
2.	<b>Lukose TT</b> , Sood A, Mittal BR, Parmar M, Barwad P	Role of 13N ammonia cardiac positron emission tomography in detection of early coronary microvascular dysfunction in asymptomatic Type 2 diabetes mellitus	SNMICON-2020	13.12.20	AIIMS, Raipur
3.	<b>Bansal H</b> , <b>Ravina M</b> , <b>Peepre K</b> , Shukla AK, Lukose TT	The utility of thyroid parotid ratio in predicting radioactive iodine uptake in hyperthyroid patients	SNMICON-2020	13.12.20	AIIMS, Raipur
4.	<b>Bansal H</b> , Ravina M, Lukose TT, Mishra AK, Moideen A	Incidentally diagnosed Esophago-pulmonary fistula on 18-F- FDG PET/CT in a case of carcinoma esophagus- A life threatening emergency	SNMICON-2020	13.12.20	AIIMS, Raipur
5.	<b>Krishna S</b> , Ranganth T G, Ravina M, Peepre K, Lukose TT	Intrapulmonary shunt in chronic thrombo-embolic pulmonary hypertension with false negative V/Q scintigraphy	SNMICON-2020	13.12.20	AIIMS, Raipur

## RESEARCH Completed

S. No.	Projects
1.	Role of 99m-Tc TRODAT in differentiating between idiopathic Parkinson's disease and drug induced Parkinson's.

## Collaborative Projects Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Role of FDG PET-CT in assessment of myocardial viability in patients with coronary artery disease associated left ventricular dysfunction	Cardiology
2.	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
3.	Role of FDG PET-CT in pretreatment evaluation of oral carcinoma	ENT and HNS
4.	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

## PUBLICATIONS

- Ravina M**, Bansal H, Lukose TT, Mishra AK, Moideen A. Incidentally diagnosed Esophago-pulmonary fistula on 18-F- FDG PET/CT in a case of carcinoma esophagus- A life threatening emergency. Clin Nucl Med. 2021 Jun 1;46(6):515-516.
- Bansal H, **Ravina M**, Nanda S, Lukose TT, Krishna S. Diffuse White Adipose Tissue 18F-FDG Uptake-An Unusual Finding on 18F-FDG PET/CT. Clin Nucl Med. 2021 doi: 10.1097/RLU.0000000000003652. Epub ahead of print. PMID: 33867453.
- Ravina M**, Baruah TD, Lukose T, Ranganath TG, Moideen A. Incidental lung findings in a COVID-19 patient on <sup>18</sup>F-FDG PET/CT done for preoperative evaluation of Marjolin's ulcer-first report from Chhattisgarh. World J Nucl Med 0, 0:0 (26 May 2021)-under print.

## PATIENT CARE

**Facilities available in the department** 1.SPECT/CT Scan 2.PET/CT Scan 3.Thyroid Probe  
Nuclear Medicine therapy clinic for bone pain palliation, thyrotoxicosis and differentiated thyroid cancer

1 <sup>st</sup> April 2020- 31 <sup>st</sup> March 2021	SPECT/CT	PET/CT	Radioiodine Therapy for Thyroid Carcinoma and Thyrotoxicosis Radio-Active Iodine Uptake Study
<b>Total Number of Patients</b>	726	1263	22

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

Dr. Tinu T Lukose won the Best oral presentation award & best oral presentation award in COVID category in SNMICON-2020. Dr. Himanshu Bansal won the 2<sup>nd</sup> prize in E-poster presentation. **Dr. Karan Peepre** was the organising Chairman of SNMICON 2020. **Dr. Mudalsha Ravina** was the Organising secretary of SNMICON 2020. She was also appointed as Executive Committee member of National Cardiological Society India, member of Editorial Board of Indian Journal of Nuclear Medicine, member of Indian College of Nuclear Medicine, scientific committee member for Biennial conference of NCSI. She is one of the reviewers for Nuclear Medicine communications.



Inauguration of PAT CT Scan Facility by Shri Ashwin Kumar Choubey, Hon'ble Minister of State MoHFW, GoI.



SNMICON 2020 Organized by the Department of Nuclear Medicine

## Department of Neurosurgery

### Assistant Professor & In-charge

Dr. Anil Kumar Sharma

### Assistant Professors

Dr. Nehete Lokesh Suresh (till 12.12.2020)

Dr. Gandhoke Charandeep Singh

Dr. Prashant Raj Singh

Dr. Surendra Kumar Gupta (till 19.02.2021)

Dr. Nitish Nayak (till 16.03.2021)

Dr. Raghavendra Kumar Sharma (till 27.12.2020)

### HIGHLIGHTS

The Department of Neurosurgery continued to scale new heights in patient care, research and training. The department of Neurosurgery started functioning since Sep. 2017. Within a short period of time the department has become a specialized centre and is able to cater to almost all neurosurgical diseases affecting the cranium, spine and peripheral nervous system.

Department has started High dependency unit within neurosurgery IPD where critical patients on ventilators can be treated.

Neurosurgery department works in an interdisciplinary environment that brings together neurologists, radiologists, radiation oncologists, ENT –Head and Neck surgeons and a dedicated neuroanesthesia 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 neurosurgery, Functional surgeries like Drezotomy and microvascular decompressions, 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 postgraduates students of other departments as co-supervisor of their thesis.

All faculties are actively involved in clinical teaching to 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 (virtual talk)	NEUROENDOCON, 7th Annual Meeting of Neuroendoscopy Society - India	02-04.04.2021	Hyderabad

S. No.	Title	CME/Conference	Date	Organised By
2.	Cranio- Vertebral Junction: Interesting Cases	Webinar on craniovertebral junction,	Feb.2021	NIMHANS
3.	Clinical Perspective of ICP of intracranial pressure dynamics	Role of ICP Monitoring in TBI - Concepts, Principles and Case Based Scenarios	23.01.2021,	Webinar
4.	Expanding Horizons of skull base endoscopy	CME, CAN	Feb 2021	CAN, Raipur
5.	Overview and spectrum of CNS tumors in our Centre,	CME on 'World Cancer Day	04.02.2021	AIIMS, Raipur
6.	CRANIO-VERTEBRAL JUNCTION: BRIEF OVERVIEW AND FIXATION TECHNIQUES	Symposium on World Spine Day	16.10.2020	AIIMS, Raipur
7.	Simulation of OSCE- Neurosurgery	Examinoline	02.01.2021	Neurological Society of India (NSI)
8.	Giant and purely solid posterior fossa hemangioblastomas: Challenges and surgical nuances	Virtual NEUROVASCON	03 - 04.10.2020	Cerebro-Vascular
9.	Extended endonasal endoscopic approaches for skull base meningiomas	Webinar, Neurosurgical TV	16.08.2020	Neuro-endoscopy education channel, Neurosurgical TV

## RESEARCH Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year- End year	Total funds sanctioned (Rs.)
1.	Anatomic study and clinical significance of the endoscopic endonasal approach to the anterior communicating artery complex	Dr. Anil Kumar Sharma	AIIMS Raipur	1 year	2018-2019	5 Lakhs

## Collaborative Projects Ongoing

S. No.	Project	Collaborating Department/Institution
1.	An epidemiology study of Traumatic Head Injury and Spinal cord Injury	AIIMS, Delhi

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

S. No.	Projects
1.	EFFECT ON NEUROPSYCHOLOGICAL FUNCTION IN PRE OPERATIVE AND POST OPERATIVE
2.	CORRELATION OF PREOPERATIVE CRANIAL NERVE DIFFUSION TENSOR TRACTOGRAPHY WITH INTRAOPERATIVE FINDINGS IN SURGERY OF CEREBELLOPONTINE ANGLE TUMORS

## PUBLICATIONS

- Gandhoke CS, Sharma AK, Sharma RK, Syal SK. Hemifacial spasm due to multiple neurovascular conflicts: A conundrum. *Surg Neurol Int*. 2020;11:180. Published 2020 Jul 11. doi:10.25259/SNI\_140\_2020
- Sharma AK, Mehta R, Chandrakar N, Singh N, Nagarkar NM. Suprasellar tension pneumatocele after endoscopic transsphenoidal surgery for pituitary macroadenoma. *Asian J Neurosurg* 2020;15:763-5
- Sharma AK, Sharma DK. A cadaveric anatomical study on anterior communicating artery aneurysm surgery by extended endoscopic endonasal approach. *Asian J Neurosurg* 2020;15:0, 10.4103/ajns.AJNS\_160\_20
- Chaturvedi J, Singh P, Malagi S, Goyal N, Sharma AK. Spinal extradural arachnoid cyst: Rare cases from Indian Institutes. *Surg Neurol Int* 2020;11:306. 10.25259/SNI\_545\_2020
- Chaturvedi J, Joshi P, Goyal N, Sharma AK, Mittal RS, Sharma R. Aspergillus masquerading as clival chordoma. *Surg Neurol Int*. 2020 Oct 2;11:318. doi: 10.25259/SNI\_544\_2020. PMID: 33093995; PMCID: PMC7568121.
- Gandhoke CS1, Gupta SK1, Sharma AK1, Ayalashomayajula S2, Sinha M2, Pati SK3, Syal SK4. Triplomyelia in a case of diastematomyelia: A new entity. *Surg Neurol Int* 08 - Oct - 2020; 11:324, 10.25259/SNI\_142\_2020
- Sharma AK, Gandhoke CS, Nayak N. Effect of coronavirus disease 2019 pandemic on case volume, spectrum, and perioperative coronavirus disease 2019 incidence in neurosurgical patients: An experience at a tertiary care center in India. *Surg Neurol Int* 2020;11:390
- 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)
- Anil Kumar Sharma1, Charandeep Singh Gandhoke1, Simran Kaur Syal2. Spontaneous regression of herniated cervical disc: A case report and literature review. 2021;12:141
- Gupta SK, Nayak N, Gandhoke CS, Gupta RK, Sharma AK, Singh P, Sharma R, Nehete LS. A giant nondural-based lumbosacral clear cell meningioma mimicking schwannoma: A case report and review of the literature. *Asian J Neurosurg* 2021; 16:44-50, 10.4103/ajns.AJNS\_385\_20
- Nitish Nayak, Prashant Raj Singh, Raghvendra Kumar Sharma, Surendra Kumar Gupta, Charandeep Singh Gandhoke, [Anil Kumar Sharma](#) Impact of COVID-19 Pandemic during the Lockdown on the Traumatic Brain Injury—An Institutional Experience, *Indian Journal of Neurotrauma* DOI: 10.1055/s-0041-1725569, <https://www.thieme-connect.com/products/ejournals/issue/10.1055/s-011-50584>
- Sharma AK, Gandhoke CS, Misra S, Ravi A, Gupta RK, Gupta SK. Ectopic intracanal orbital meningioma – A rare case report. *Surg Neurol Int* 2020;12:305.



13. Singh PR, Nayak N, Gupta SK, Sharma RK, Shukla A, Nehete LS. Hemorrhage in long segment cervical schwannoma; case report and literature review. *Surgical Neurology International*. 2020;11(476):1.
14. Sharma S, Singh PR, Goyal RK, Sharma RK, Yamada Y, Kato Y. Retrospective study on early outcomes of carotid stenting: Institutional experience. *Romanian Neurosurgery*. 2021 Mar 9:94-7.
15. Gupta SK, Singh P, Gupta RK, Sharma R, Nehete LS. Infected congenital lumbosacral dermal sinus tract with conus epidermoid abscess: a rare entity. *Child's Nervous System*. 2020 Nov 27:1-7.

## Chapters in book

S. No.	Author(s)	Title	Name of the Editor	Book	Edition	City of Publication	Publisher	Year of Publication
1.	Karthik Kulanthaivelu, Anil Kumar Sharma, Jitender Chaturvedi, Rajeev Sharma, Shamick Biswas, Harsh Deora, B. Indira Devi	Traumatic Carotid Cavernous Fistula	Dr. Sumit Sinha	Hand-book of Neurotrauma, Volume 2: Cranial Trauma.	1st	Delhi	Salubris Medical Publishers	2020 p 244-258
2.	Jitender Chaturvedi, Rajeev Sharma, Anil Kumar Sharma, B. Indira Devi	Cranioplasty	Dr. Sumit Sinha	Hand-book of Neurotrauma, Volume 2: Cranial Trauma.	1st	Delhi	Salubris Medical Publishers	2020 p 259-270

## PATIENT CARE

OPD services	IPD services	Major surgeries
4669	657	583

## 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 MCh neurosurgery course at DKS-PGI, Raipur

## Department of Nephrology

### Assistant Professor & In-charge

Dr. Vinay Rathore

### Assistant Professors

Dr. Saurabh Nayak

Dr. Srivatsa A

### HIGHLIGHTS

The hemodialysis (HD) unit in C block Basement, was inaugurated by Prof. Nitin M. Nagarkar, Director and CEO, AIIMS Raipur and Prof. Vivekanand Jha, Executive Director, The George Institute of Global Health on 10<sup>th</sup> March 2021 on the occasion of World Kidney Day. The HD unit has 18 HD Machines. A dialysis access theater is proposed for creating AV Fistula and insertion of PD Catheter in HD Unit. Nephrology Ward was inaugurated in the 3C1 block by Prof. Nagarkar, Director and Prof. Jha, on 10<sup>th</sup>

March 2021 on the occasion of World Kidney. The ward has 30 beds for treating patients with Kidney Diseases, a Peritoneal Dialysis Unit for training on Peritoneal Dialysis, and a proposed Renal Lab. Peritoneal Dialysis unit: A state of art peritoneal dialysis unit was inaugurated in the 3C1 block by Prof. Nagarkar, and Prof. Jha on 10<sup>th</sup> March 2021 on the occasion of World Kidney. The unit has 2 Automated Peritoneal Dialysis Cycler.

### Ongoing Services:

Despite COVID Pandemic the Department of Nephrology continues to provide routine and Emergency services to the patients suffering from kidney ailments. The operational Hemodialysis Machine has increased from none to 20, including six hemodialysis machines operational exclusively for COVID-19 patients.

The department provides various services including Ultrasound-guided kidney Biopsy, Hemodialysis, Peritoneal dialysis facilities including CAPD, Automated Peritoneal dialysis, and Acute PD, Plasmapheresis, Hemoperfusion, CRRT, SLED, Isolated ultrafiltration. Department provides daycare facilities for Immunosuppression drugs and renal biopsy for patients with Glomerular diseases.

### Special clinics

- 1) **Glomerular disease clinic (GDC):** The clinic run every Wednesday provides care to more than 300 patients suffering from various glomerular diseases.
- 2) **CKDu clinic:** A cluster of cases of chronic kidney disease of unknown origin has been reported from the border districts of Orissa and Chhattisgarh. Department of Nephrology runs a special clinic for these patients every Thursday. More than 150 patients are enrolled in this clinic
- 3) **Preventive Nephrology Clinic:** in collaboration with the School of Public Health provides preventive nephrology services

### Support to Government in dealing with Chronic Kidney Disease problem in Supebeda

The Department is providing support to State Government in dealing with Kidney Diseases cases in Supebeda including conducting camps, organizing workshops for health care workers, and providing renal replacement to the patients. Department of Nephrology with the help of NHM, Chhattisgarh has been providing Peritoneal Dialysis services to patients from Supebeda. A research proposal to identify the cause of CKD has been submitted to the Government of Chhattisgarh.

### Support to Government in dealing with Chronic Kidney Disease problem in Chhattisgarh

The department of Nephrology has been actively involved in supporting the state government to deal with chronic kidney disease in the state of Chhattisgarh, including training of dialysis technician and conducting seminars. A proposal for starting Peritoneal Dialysis in Chhattisgarh has also been submitted to the Government of Chhattisgarh.

## EDUCATION

DM Nephrology program has started in the department of Nephrology Currently, two DM students are pursuing DM Nephrology at AIIMS, Raipur. Two Regular classes and training for Dialysis Technicians and Nursing staff.

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

S. No.	Title	CME/Conference	Date	Organised By
1.	Peritoneal Dialysis for Health Professionals from Deobhog and Gariyaband		13th and 14th August 2020.	Department of Nephrology and School of Public Health, AIIMS, Raipur
2.	Prevention of Catheter-Related Bloodstream Infection (CRBSI)	World Kidney Day	8.03.2021	Department of Nephrology and School of Public Health, AIIMS, Raipur
3.	Peritoneal Dialysis for health care professionals	World Kidney Day	9.03.2021	Department of Nephrology and School of Public Health, AIIMS, Raipur
4.	Public Awareness Program	World Kidney Day	10.03.2021	Department of Nephrology and School of Public Health, AIIMS, Raipur
5.	Living well with kidney disease	CME on World Kidney Day	10.03.2021	Department of Nephrology and School of Public Health, AIIMS, Raipur
6.	COVID-19 and Preparedness of District Dialysis Centers	Online Workshop	27 <sup>th</sup> March 2021	Department of Nephrology and NHM, Chhattisgarh

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

Dr. Vinay Rathore

S. No.	Title	CME/Conference	Date	Organised By
1.	Swap Transplant	Transplant Coordinators Training Programme	22 <sup>nd</sup> -26 <sup>th</sup> March 2021.	ROTO-SOTTO, Western Region & Maharashtra, Ministry of Health & Family Welfare, Government of India
2.	Chronic Kidney Disease and COVID	Nutrition, Immunity & Covid-19	April 10, 2021	LCIT School of Pharmacy, Bilaspur, Chhattisgarh

Dr. Saurabh Nayak

S. No.	Title	CME/Conference	Date	Organised By
1.	Telemedicine – time to go Virtual	Conference	20.05.2020	<a href="#">Intas Pharmaceuticals Ltd.</a>

## RESEARCH

### Funded Projects

#### Ongoing

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	1 year	2019-2021	4 lakhs
2.	Seamless User-centered Proactive Provision Of Riskstratified Treatment in Peritoneal Dialysis (SUPPORT PD): Patient Experience and Feasibility Study	Dr. Vinay Rathore	George Institute of Global Health	1 year	2019-2021	

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
3.	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	1 year	2020-2021	Rs 1 Lakhs (Approx)
4.	Controlled evaluation of Angiotensin Receptor Blockers for COVID-19 respiratory disease (CLARITY)	Dr. Vinay Rathore	George Institute of Global Health	1 year	2020-2021	Rs 9 lakhs
5.	Treatment of a cardiovascular disease with low dose Rivaroxaban in Advanced Chronic Kidney Disease (TRACK)	Dr. S Nayak	GIGH	5 year	2021-2025	25 Lakhs Approx
6.	Allopurinol for CVD in CKD (AvoID-CKD): A double-blind, randomized controlled trial	Dr. S Nayak	Welcome trust. India Alliance, PGIMER	5 year	2021-2025	5 Lakh Approx
7.	Clinical Profile and Outcome of COVID-19 patients with kidney disease: An Observational study	Dr. S Nayak	Nonfunded	2 year		
8.	A pattern of biopsy-proven kidney disease in central India: A retrospective study	Dr. S Nayak	A pattern of biopsy-proven kidney disease in central India: A retrospective study	1 year		

## Departmental Projects (Including Thesis/Dissertations)

### Ongoing

S. No.	Projects
1.	CRenal Tubular Dysfunction in Relatives of patients with CKDu
2.	Out of pocket expenditures in accessing dialysis services among chronic kidney disease patients.
3.	Occult Hepatitis B Infection Among Chronic Kidney Disease Patients in a Tertiary Health Care Centre: A Preliminary Study
4.	Evaluation of changes in ocular parameters in patients Undergoing hemodialysis
5.	Characteristics and Risk Factors for Chronic Kidney Disease in patients with Hansen's disease.

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Seamless User-centered Proactive Provision Of Riskstratified Treatment in Peritoneal Dialysis (SUPPORT PD): Patient Experience and Feasibility Study	George Institute of Global Health India
2.	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).	Cadila Healthcare Ltd.Zydus Tower
3.	Controlled evaluation of Angiotensin Receptor Blockers for COVID-19 respIraTorY disease (CLARITY)	George Institute of Global Health India
4.	Treatment of cardiovascular disease with low dose Rivaroxaban in Advanced Chronic Kidney Disease (TRACK)	George Institute of Global Health India
5.	Allopurinol for CVD in CKD (AvoiD-CKD): A double-blind, randomized controlled trial	Welcome trust. India Alliance, PGIMER

## PUBLICATIONS

- Chowdhary P, Rathore V, Jain K, Galhotra A, Verma N, Kale SA, Nagarkar NM, Jha V. CKD of Unknown Origin in Supebeda, Chhattisgarh, India. *Kidney Int Rep.* 2020 Oct 22;6(1):210-214.
- Pal RK, Naik G, Rathore V, Sahu KK, Kumar R. Comparison between two different successful approaches to COVID-19 pandemic in India (Dharavi versus Kerala). *J Family Med Prim Care.* 2020 Dec 31;9(12):5827-5832.
- 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
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- Pandey AK, Agarwal D, Rathore V, Sharma GS, Nowal SS, Beniwal P, et al. Short Term Renal Outcome of Bortezomib Based Therapy in Patients with Multiple Myeloma Requiring Dialysis. *Indian Journal of Nephrology.* 2020;30(3):213.
- Gaur N, Malhotra V, Agrawal D, Singh SK, Beniwal P, Sharma S, et al. Sofosbuvir-Velpatasvir Fixed Drug Combination for the Treatment of Chronic Hepatitis

- C Infection in Patients With End-Stage Renal Disease and Kidney Transplantation. *Journal of clinical and experimental hepatology*. 2020;10(3):189–93.
9. Sahu RD, Jangid DK, Dhaker DS, Rathore V, Agrawal S, Yadav SS, et al. Usefulness of real-time sonoelastography for assessment of renal allograft fibrosis. *Indian Journal of Transplantation*. 2020;14(1):53.
  10. Gupta, K. L., Bagai, S., Kumar, H., **Nayak, S.**, Muthu, V., Kumar, V., Rathi, M., Kohli, H. S., Sharma, A., & Ramachandran, R. (2021). Levofloxacin based non-rifampicin anti-tuberculous therapy: An effective alternative in renal transplant recipients in resource limited setting. *Nephrology (Carlton, Vic.)*, 26(2), 178–184. <https://doi.org/10.1111/nep.13816>
  11. 2. Ramachandran, R., **Nayak, S.**, Kumar, V., Kumar, A., Agrawal, N., Bansal, R., Tiewsoh, K., Nada, R., Rathi, M., & Kohli, H. S. (2021). Primary membranous nephropathy in children and adolescents: a single-centre report from South Asia. *Pediatric nephrology (Berlin, Germany)*, 36(5), 1217–1226. <https://doi.org/10.1007/s00467-020-04798-8>
  12. Ramachandran, R., **Nayak, S.**, Kumar, V., Sethi, J., Minz, R., Kumar, V., Rathi, M., & Kohli, H. S. (2021). Rituximab in primary membranous nephropathy: a comparative study of three dosing regimens. *Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association*, gfab037. Advance online publication. <https://doi.org/10.1093/ndt/gfab037>
  13. **Nayak, S.**, & Bharati, J. (2021). Corticosteroids and COVID-19: What Could Be the Best Bet in Treating Active Glomerular Diseases in Patients With Concomitant Early COVID-19?. *American journal of kidney diseases : the official journal of the National Kidney Foundation*, 77(1), 154–155. <https://doi.org/10.1053/j.ajkd.2020.09.006>

## PATIENT CARE

**Response to COVID 19 epidemic:** Department has developed a dialysis unit for Kidney patients requiring dialysis who developed COVID in the 3C1 ward with the installation of a RO plant and 4 Hemodialysis machine, hemodialysis facility and CRRT for COVID ICU and HDU Automated peritoneal dialysis and CAPD were also develop in 3C1 ward A team from Department of Nephrology was deputed to manage renal complications of COVID in addition to routine management of COVID ICU and HDU patients from general COVID duty.

Services	Total no. of Patients
OPD	8637
IPD	517
Renal Biopsy	150
Acute Peritoneal Dialysis	9
CAPD	15
Hemodialysis	1325
CRRT	3
Plasmapheresis	15
Permacaths insertion	100
AVF Creation	15

<b>AVF Banding</b>	1
<b>Transplant patients</b>	12
<b>CKD patients on Hemodialysis</b>	190
<b>CKD patients</b>	26
<b>AKI patients</b>	15
<b>CAPD patients</b>	3
<b>CRRT Done</b>	4

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

World Kidney Day (8<sup>th</sup>-10<sup>th</sup> March 2021): Department of Nephrology and School of Public Health organized the World Kidney Day Program from 8<sup>th</sup> - 10<sup>th</sup> of March 2021. This was a three-day program. The activities included:

- **Poster Competition:** A poster exhibition on the theme of WKD 2021, "living well with kidney disease," was organized. Students from the various department took part in the competition.
- **Dialysis Games** where patients on dialysis played games like Gully cricket, Badminton, Carrom, and Chess. It was organized in the basketball court and the basement area. The motto of the 'Dialysis Games' was to deliver a message that 'a fruitful life is possible with CKD and even with dialysis'.



**Inauguration of New Hemodialysis Unit**



## Department of Obstetrics and Gynecology

### Professor and Head

Dr. Sarita Agrawal

### Associate Professors

Dr. Nilaj Bagde

Dr. Vinita Singh

Dr. Pushpawati

Dr. Chandrashekhar Shrivastava

### Assistant Professor

Dr. Sarita Rajbhar

## HIGHLIGHTS

Department of Obstetrics and Gynecology is providing standard of care to the women at AIIMS, Raipur including the specialized care for all high risk pregnancy, gynecology oncology cases, PCOD and endometriosis. The Department is equipped with all the high end equipments including Laparoscopes, hysteroscopes, ultrasound for patient care and also simulators and teaching models for undergraduate and postgraduate teaching.

In this era of COVID-19 pandemic the department, continued providing wide spread awareness of societal inequities placed an important spotlight on the challenge we faced as Reproductive health care provider, both in terms of health qualities of our patients and their families and ensured Respectful

Maternity Care to COVID affected mothers also. During the pandemic the department established isolation areas and ensured care as per ICMR norms and all consultant were available for telephonic consultation and also provided care through tele-OPD at time of lockdown to help our patients.

The department started with three new specialized clinics viz. PCOS clinic, Endometriosis clinic and Preventive Oncology Clinic on 24<sup>th</sup> February 2021. Faculties and residents also worked in area of community awareness through Online PCOS Awareness program for school and college students; in which total 257 college faculties and students were benefited:

## EDUCATION

The Department continues regular academic activity through online classes for undergraduates and postgraduates during the COVID pandemic in order to impart continuous flow of knowledge to the students.

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

Organized online “Happiness Program for Post Graduate Students” in collaboration with Department of Psychiatry, AIIMS, Raipur. In this virtual program PG students were thrown light on how to overcome with stress and to set the priorities in daily schedule to get away from depression due to work pressure stress.

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Sarita Agrawal

S. No.	Title	CME/Conference	Date	Organised By
1.	Stem Cells in Recurrent Pregnancy Loss Anatomical Factor – (Lecture) Dentistry	Live Webinar Lecture Activity	06.03.2021	AIIMS, Bhatinda
2.	Retroperitoneal Anatomy National webinar on Gyneconcolaparoscopy- I (Lecture)	National LIVE Webinar Lecture Activity	18.10.2020	JOHNSON & JOHNSON
3.	Alternate Birthing Position (Lecture)	National e- conference on labour and birth	27.09.2020	KVG Medical College Sullia Karnataka
4.	Importance of Writing Case Paper, Registry and Record Keeping – (Lecture)	LIVE Webinar Lecture Activity	20.09.2020	FOGSI/ICOG
5.	Where Lies the Happiness – (Lecture)	LIVE Webinar Lecture Activity	29.08.2020	AIIMS, RAIPUR
6.	Competency Based Medical Education- (Lecture)	Online Certificate course on medical education technology	22.06.2020	AIIMS, Raipur
7.	Organ Donation – (Lecture)	LIVE Webinar Lecture Activity	30.06.2020	RAIPUR OBS & GYNE SOCIETY
8.	Resistant Vaginal Infections- (Lecture)	LIVE Webinar Lecture Activity: FOGSI's digital initiative	23.06.2020	FOGSI
9.	AUB in Reproductive Age Group Evaluation & Management NOGS"CURRENT CONCEPTS IN AUB	LIVE Webinar Lecture Activity	06 .05.2020	AIIMS, Raipur

### Dr. Nilaj Kumar Bagde

S. No.	Title	CME/Conference	Date	Organised By
1.	Endometriosis, An Elusive Challenge: Medical Management on Endometriosis	Conference/Webinar on: Endometriosis, An Elusive Challenge	11.5.2020	Endometriosis committee- FOGSI 2020
2.	Demystifying Laparoscopy in Endometriosis- (Lecture)	Webseries on basics of gynecologic endoscopy	19.09.2020	DSOG & JNMC Alumni Association
3.	Gynecological Cancers: What we should Know	CEM cum awareness session on “World Cancer Day”	4.02.2021	Dept. of Pediatrics and Medical Oncology AIIMS, Raipur

**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	4 Years	01-11-2017-30-04-2022	20,63,822/- Central Zone
2.	National Registry on COVID-19 infection among pregnant women and their neonates” ICMR Multi centre Project	Dr. Sarita Agrawal	ICMR	4 Years	15-12-2020-2024	AIIMS Site 400/- per eligible case for data entry
3.	National Registry on COVID-19 infection among pregnant women and their neonates” ICMR Multi centre Project 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) Department of Obstetrics and Gynecology AIIMS, Raipur.	Dr. Nilajkumar Bagde	Wellcome Trust-DBT India Alliance/ICMR	5	2019 - 2024	9,16,000/- Central Zone

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
5.	Role of Estrogen receptors and Epithelial-to-mesenchymal transition in unexplained infertility	Dr. Vinita Singh	AIIMS RAIPUR	2 YEARS	2020-2022	5,00,000/-
6.	Serum 25 Dihydroxy Vitamin D3 level estimation and insulin resistance in women of 18-40 years age group with Polycystic ovarian syndrome	Dr. Pushpawati Thakur	AIIMS RAIPUR	1year + ongoing with extension	2018-2021-2022	2,34,000
7.	Role of Anti-Mullerian hormone (AMH) in the diagnosis of PCOS	Dr. Sarita Rajbhar	Intramural project	1 year	2020-2021	5,00,000/-

### Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	The Ultraviolet germicidal chamber [LUMOS-TEZ] for decontamination of N95 faces mask and other medical devices.	Dr. Sarita Agrawal	Chhattisgarh Council of Science & Technology (CGCOST)	2 Months	11-05-2020 TO 18-07-2020	1,00,000/-
2.	SCOPE - 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 and Pregnancy	Dr. Sarita Agrawal	WHO	6 Months	28-09-2020 TO 28-02-2021	2,40,000/-
3.	Serum testosterone level and semen quality in males patients with sickle cell disease attending Aims Raipur OPD	Dr Vinita Singh	AIIMS RAIPUR	2 YEARS	2018-2020	500000/-

## Departmental Projects – Non-Funded Projects/ ICMR-STS Projects/ Thesis/Dissertations Ongoing

S. No.	Projects
1.	Maternal and perinatal outcome in COVID-19 Positive pregnant women: A prospective
2.	Detecting vertical transmission of coronavirus SARS-CoV-2 from infected pregnant women to fetus in utero.
3.	Prevalence and High-Risk Factors of Persistent Hyperglycemia Among Women With GDM- A Prospective Study.
4.	Role of Hysteroscopy in Evaluation of Intra Uterine Structural Pathology: Prospective Observational Study at A Tertiary Care Centre.
5.	“Comparative study of hematological and biochemical changes in pregnant and non-pregnant women with COVID-19 infection.”
6.	Do women with benign versus malignant ovarian masses demonstrate variable clinical presentation?
7.	Prediction of Adverse Maternal and Fetal Outcomes in Preeclampsia Using a Risk Prediction Model:
8.	Stage based integrated management using Barcelona protocol versus conventional management of fetal growth restriction and perinatal outcome: A randomized controlled trial
9.	Prenatal diagnosis of congenital anomalies – prevalence, Pattern and perinatal outcome
10.	Comparison of diagnostic accuracy of RMI, IOTA simple rules and IOTA ADNeX model in
11.	The Association of mean follicular diameter at the time of ovulation trigger and conception in women undergoing intrauterine insemination
12.	Role of hysteroscopy in the evaluation of intrauterine structural pathology: a prospective observational study at a tertiary care center.
13.	Serum and salivary uric acid level estimation and its correlation in preeclampsia
14.	Prevalence of subclinical hypothyroidism in women with polycystic ovarian syndrome in 18-40 years age group and its effect on clinical characteristics, biochemical and hormonal parameters
15.	Correlation between Non Reassuring NST And Cord Blood Arterial Blood Gas Analysis
16.	Diagnostic accuracy of Hematological indices in prediction of Non-severe Preeclampsia and Severe Preeclampsia: A Prospective Cohort Observational Study.
17.	Role of prophylactic Tranexamic Acid in reducing blood loss during Cesarean Section in term singleton pregnancy: a Double blind Placebo Control Randomized Controlled Trial (co-guide)

## Completed

S. No.	Projects
1.	Prevalence and genotype distribution of cervical HPV infection in young married women: A hospital based cross sectional study.
2.	Pregnancy-Associated Plasma Protein A levels in Late First Trimester Pregnancies with Small-for-Gestational Age Neonates: A Prospective Observational Study.
3.	Association of hypothyroidism with the Occurrence of gestational diabetes Mellitus.
4.	Effect of Exogenous Progesterone on Nuchal Translucency of the Fetus.
5.	Role of 1st-trimester uterine artery Doppler and pregnancy-associated plasma protein-a (PAPP-A) in the prediction of preeclampsia.
6.	25-OH vitamin D level among female patients attending AIIMS Raipur OPD with menstrual irregularities: <b>Completed &amp; published</b>
7.	A study of awareness, knowledge, and emotional aspect of infertility among women seeking fertility assistance at a tertiary care hospital in Chhattisgarh: <b>Completed awaiting publication.</b>

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Anxiety among pregnant women during the COVID-19 pandemic in India- a multicentric study	Department of Psychology & Obstetrics & Gynecology, AIIMS, Raipur
2.	To Study the co-expression of p-16 and ki 67 dual immunostain on cytology smears and its value in detection of cervical cancer precursors in woman from chhattisgarh	Department of Pathology and laboratory Medicine, AIIMS, Raipur
3.	Effectiveness of awareness programme on knowledge, attitude and practices for early detection and prevention of breast and cervical cancer in educated women	Department of Community and Family Medicines, AIIMS, Raipur
4.	Awareness about folic acid supplementation and folic acid status in pregnant women of Abhanpur Block of Raipur District C.G	Department of Community and Family Medicines, AIIMS, Raipur
5.	Medical Evaluation of Hymen In Correlation With Genital Infections and Physical Activities In Sexually Inactive Females.	Department of Psychology & Obstetrics & Gynecology, AIIMS, Raipur

## PUBLICATIONS

1. **Sarita Agrawal**, Sashi Sekhar Dubey , Sanjay Singh Negi, Padma Das, Ajoy Behra, The Ultraviolet germicidal chamber [LUMOS-TEZ] for decontamination of N95 faces mask and other medical devices. “**International Journal Of Scientific Research**”, Volume - 9 | Issue - 8 | August - 2020 | PRINT ISSN No. 2277-8179 | DOI: 10.36106/ijsr.
2. **Sarita Agrawal, Arpana Verma, Sarita Rajbhar, Pushpawati Thakur**, Loukya Kodumuri, Swati Kumari Meconium Peritonitis: In Utero Diagnosis of a Rare Clinical Entity and Postnatal Outcome. *Obstetrics and Gynaecology Cases – Reviews*” ISSN: 2469-5734 Volume 6 | Issue 5
3. Suprava Patel , Ritu Priya, Phalguni Padhi, Tripty Naik, Jessy Abraham, Rachita Nanda, Eli Mohapatra, **Sarita Agrawal**. Prevalence of Congenital Hypothyroidism and G6PD Deficiency in Newborns in a Tertiary Care Hospital of Central India. *Journal of Neonatology* 1–5 © 2021 National Neonatology Forum Reprints and permissions in.sagepub.com/journals-permissions-India DOI: 10.1177/097321792098771 journals.sagepub.com/home/nnt.
4. **Bagde ND**, Bagde M, **Agrawal S**, Lone ZA, Hussain N. do women with benign versus malignant ovarian masses demonstrate variable clinical presentation? *Int J Reprod Contracept Obstet Gynecol*. 2021;
5. **Bagde ND**, Bagde M, Lone ZA. Relationship between Serum Tumor Markers, CA-125, CEA, CA19-9, LDH, and  $\beta$ HCG with Histopathology and Age in Women with Ovarian Tumors. *Asian Pac J Cancer Biol*. 2020; 5 (4) :167-171
6. **Singh V**, Trigunait P, Majumdar S, Ganeshan R, Sahu R. Managing pregnancy in COVID-19 pandemic: A review article. *J Family Med Prim Care* 2020; 9:5468-73
7. **Vinita Singh**, Anu Singh, Pragati Trigunait, Sagarika Majumdar, Dr Shikha Singh, “Vain is Still a Clinical Dilemma: A Review Article”, *IJMACR*- September - October - 2020, Vol – 3, Issue -5, P. No. 163 – 170.
8. **Vinita Singh**, Sefali Shinde, Nilay Shinde , Dilemma in diagnosis of giant uterine fibroid: Case Report , *International Journal of Medical Science and Current Research (IJMSCR)* Available online at: [www.ijmscr.com](http://www.ijmscr.com) Volume4, Issue 2, Page No: 633-636 March-April 2021
9. **Pushpawati Thakur**, Sagarika Majumdar\*, Veena Chandrawanshi, **Vinita Singh**, Sarita Rajbhar, Pragati Trigunait Outcome of different cerclage methods in two cases of congenital cervical insufficiency: a case report ; *Int J Res Med Sci*. 2021 Feb;9(2):
10. **Sunil K Panigrahi, Anjali Pal, Sunita Singh, Pushpawati Thakur** Assessment of community inquisitive insight towards carcinoma breast and cervix among adolescent girls in a city of Chhattisgarh, India: A qualitative study" ; *Journal of Family Medicine and Primary Care*; 2020 Volume : 9 Issue : Page : 619-625
11. **Nayak P**, Narayan C, **Bagde N**, Mishra J. Vaginal Atresia- One Amongst The Manifestations of Rare Charge Syndrome. *Indian J Obstete Gynecol*. 2020;8(3):188-191
12. **Prasanta Kr Nayak**, Subarna Mitra , Amit Bugalia, Neha Sinha , Pawan B.C , **Vinita Singh** . The Role of Office Hysteroscopy in diagnosis of Endometrial Hyperplasia : A cross-sectional study from Central India, *International Journal of Scientific Research* Volume-9 | Issue-6 | June – 2020
13. **Rajbhar S**, Majumdar S, Trigunait P, Thakur P, Shikha T, Rastogi A, Successful pregnancy outcome in a case of idiopathic primary hypoparathyroidism with seizure disorder: a case report *Int J Reprod Contracept Obstet Gynecol*. 2021 Feb;10(2)
14. Arpana Verma, **Sarita Rajbhar, Pushpawati Thakur , Sarita Agrawal** , Sangeeta Pradhana, “Favorable Pregnancy Outcome in a Granulomatosis With Polyangiitis Patient With Renal Insufficiency *J Med Cases*. 2021;12(1):27-31 <https://www.journalmc.org/index.php/JMC/article/view/3610>

## PATIENT CARE

Month	OPD	IPD	Major OT	Minor OT	Tests	Total COVID Admission	Total COVID Delivery
<b>Total</b>	10987	1298	777	2112	-	355	173

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Dr. Sarita Agrawal

- Ms. SIGNATURE AWARD-CERTIFICATION FOR PHOENOMENAL LEADERSHIP “ Academiascellent medical and surgical services provided in emergency obstetrics & National COVID calamity for saving mother's lives”
- Represented AIIMS Raipur in IAEA INTERNATIONAL WEBINAR ON IN COVID -19 PANDEMIC : RADIATION STERILISATION OF PPE on 21 MAY 2020
- Nominated as President Society of Fetal Medicine CG chapter
- State co-ordinator for FOGSI –UNICEF Laqshya initiative

### Dr. Nilaj Bagde

#### Special training courses –

- Medical Education Technologies, organized by Medical Education Unit, AIIMS Raipur from- 22-06-2020 to 20-07-2020.
- Clinical secretary in Cardio diabetic society.
- Panelist-Management of labor and delivery in women with suspected /Confirmed COVID 19 infection at Conference/webinar (moderator of panel) on 21.05.2020 Organised by Raipur OBGY Society.
- Faculty judge- paper presentation session at Digital paper presentation cardio- diabetic society on 29.01.2021, organized by Cardio- Diabetic Society in association with American college of Physicians (ACP)

#### Significant events –

- Cervical cancer awareness program for the female health staff of AIIMS Raipur from month of January and February 2021.
- Special Pap smear Camp (free) of female health staff of AIIMS Raipur from 18.02.2021 & 19.02.2021.



## Department of Ophthalmology

### Professor and Head

Dr. Somen Misra

### Additional Professors

Dr. Neeta Misra

Dr. Lubna Khan

### Associate Professors

Dr. Ankur K. Shrivastava

Dr. Vijaya Sahu

## HIGHLIGHTS

The Department of Ophthalmology is presently involved in patient care in the form of outpatient services, ophthalmic surgeries and inpatient services. It comprises of a dedicated team which caters to various types of patients with speciality services available for Glaucoma, Cornea, Oculoplasty, Orbit, Strabismus, Medical Retina and Trauma cases. Services which include Phacoemulsification and Small Incision Cataract Surgery are being provided to a large number of cataract patients who visit the OPD. This includes Paediatric cataracts as well. Department is also involved in screening of Retinopathy of Prematurity (ROP) in neonatal ICU. This year saw the acquisition of Argon green LASER which would further add to the vitreoretinal services provided by the department. A Specular microscope, Laminar flow hood and Slit lamp were also procured for the development of Eye Bank services. Presently the OPD is well equipped with three slit lamps so that it can cater to a large number of patients for initial comprehensive examination. Optometry services have been further

expanded with addition of one more refraction unit setup; thus, making it to a total of three.

Patient awareness is a key point stressed upon by the Department; which has organized various programmes keeping the same in mind. The National Eye Donation Fortnight was celebrated from 25<sup>th</sup> August to 8<sup>th</sup> September 2020 which saw active participation from medical students and nursing staff. Posters were prepared and displayed, educative pamphlets were distributed to the general public and a webinar on eye donation for all AIIMS faculties was conducted on 8<sup>th</sup> September 2020.

World Glaucoma Week was celebrated from 7<sup>th</sup> to 13<sup>th</sup> March 2021. Screening of patients was carried out at Primary Health Centre (PHC), 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 12<sup>th</sup> March 2021.

## EDUCATION

MD Ophthalmology postgraduate seats were increased from 4 to 8 per year during 2020-21 with 3 seats in July 2020 and 5 seats in January 2021. There is routine PG teaching Programme 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> Semesters in the form of Clinics, Tutorials & Lectures (both online and offline) as per schedule.

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Prof. (Dr.) Somen Misra

S. No.	Title	CME/Conference	Date	Organised By
1.	Current Best formula for all eyes	OPHTHAFEST-2020 Practical Surgical Tips in Cataract Surgery: Basics to Advanced	29.8.2020	AIIMS, Bhubaneswar
2.	Current scenario of Corneal blindness and Eye Banking in India	Webinar on Eye Donation	08.09.2020	AIIMS, Raipur
3.	Role of Stem Cells in Ophthalmology	4 <sup>th</sup> Biennial International ISCSGCON 2021	13.02.2021	AIIMS, Raipur
4.	Epidemiology of Glaucoma	Webinar on Glaucoma Awareness	12.03.2021	AIIMS, Raipur

### Dr. Neeta Misra

S. No.	Title	CME/Conference	Date	Organised By
1.	Social Aspect of Eye Donation	Webinar on Eye Donation	08.09.2020	AIIMS, Raipur
2.	Common Signs and Symptoms of Glaucoma	Webinar on Glaucoma Awareness	12.03.2021	AIIMS, Raipur

### Dr. Lubna Khan

S. No.	Title	CME/Conference	Date	Organised By
1.	Video-Basics of Surgical Procedure (Keratoplasty)	Webinar on Eye Donation	08.09.2020	AIIMS, Raipur
2.	Surgical Management of Glaucoma	Webinar on Glaucoma Awareness	12.03.2021	AIIMS, Raipur

### Dr. Ankur K. Shrivastava

S. No.	Title	CME/Conference	Date	Organised By
1.	Eye donation- Myths and Facts	Webinar on Eye Donation	08.09.2020	AIIMS, Raipur
2.	Basics of SICS	Webinar on SICS	30.10.2020	ISMSICS
3.	Diagnosis of Glaucoma	Webinar on Glaucoma Awareness	12.03.2021	AIIMS, Raipur

## Dr.Vijaya Sahu

S. No.	Title	CME/Conference	Date	Organised By
1.	History of Eye Banking	Webinar on Eye donation	08.09.2020	AIIMS, Raipur
2.	Macular hole secondary to Valsalva maculopathy	Webinar on posterior segment	11.10.2020	Shri Aurobindo Nethralaya
3.	Medical management of glaucoma	Webinar on glaucoma awareness	12.03.2021	AIIMS, Raipur
4.	Glaucoma Debate	World Glaucoma week	13.03.2021	Department of Ophthalmology JNM Medical College Raipur

## ORAL PAPER/POSTER PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Dr. Ankur K. Shrivastava	Phaco:Tips and tricks	3 <sup>rd</sup> Annual meeting of ACOIN, CG chapter	21.03.2021	LAM Govt. Medical College, Raigarh

## RESEARCH

### Departmental Projects – Including Thesis/Dissertations Ongoing

S. No.	Projects
1.	Factors Affecting Final Visual Outcome in Mechanical Ocular Trauma at a Tertiary Health Care Centre in Chhattisgarh
2.	Revision of Ocular Biometry using 3D Super Formula for Intraocular lens power calculation
3.	Comparison of biomarkers for Diabetic Macular Edema in proliferative and non proliferative diabetic retinopathy
4.	Impact of interocular difference in axial length and keratometry on postoperative refractive outcome after cataract surgery
5.	Evaluation of changes in ocular parameters in patients undergoing hemodialysis
6.	Correlation of Ocular Manifestations with clinical variants of leprosy based on Ridley Jopling and WHO classification
7.	OCT as a pre-operative screening tool in routine cataract surgery: How useful is it?

## Completed

S. No.	Projects
1.	Study of Astigmatism before and after Pterygium Surgery – A Prospective Observational Study
2.	Optimizing lens constants specifically for short eyes: Is it essential?

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Intranasal fentanyl versus oral paracetamol as an adjunct to non-pharmacological bundle of care for pain management during screening for Retinopathy in preterm infants: A randomized trial	Neonatology/AIIMS, Raipur

## PUBLICATIONS

- Misra N, Ravi A, Misra S, Pathak M. History of Cataract Surgery. *Indian Journal of Community Ophthalmology*. 2020; 1(1):5-9.
- Shrivastava AK, Nayak S, Anto M. Efficacy of Nepafenac versus Flurbiprofen in Maintaining Intraoperative Mydriasis During Phacoemulsification: A Comparative Study. *Clin Ophthalmol*. 2021; 15:1085-93.
- Shrivastava AK, Rao S, Nayak S, Rao S, Anto M. Orbital and Intracranial Emphysema Causing Orbital Compartment Syndrome: A Rare Case Report and Literature Review. *Indian J Otolaryngol Head Neck Surg*. 2020 Aug 29:1-5.
- Shrivastava AK, Nayak S. Comments on: Evaluation of Barrett universal II formula for intraocular lens power calculation in Asian Indian population. *Indian J Ophthalmol*. 2020; 68(7):1507.
- Parimal N, Shrivastava AK. Comparison of ICARE rebound tonometer with Goldmann applanation tonometer in Intraocular pressure measurements. *Bihar J Ophthalmol*. 2020; 45(2):15-19.
- Singh K, Shrivastava AK, Singh A. Cystic Schwannoma Arising from Supraorbital Nerve masquerading as a Dermoid: An Unusual Case. *Acta Scientific Ophthalmology*. 2020; 3(11):46-48.
- Wankhade AB, Sahu V, Sharma P, Das P. Keratitis due to a Rare Fungus *Colletotrichum dematium*: A Case Report. *Journal of Clinical and Diagnostic Research*. 2021;15(2):3-4.
- Sahu V, Misra S. Comments on: Long-term results of a single injection of intravitreal dexamethasone as initial therapy in diabetic macular edema. *Indian J Ophthalmol*. 2021; 69(1):188-9.
- Kumar A, Sahu V, Gupta N. Utilization of the CONSORT checklist to enhance clinical trials reporting - A critical analysis. *Indian J Ophthalmol*. 2021;69(3):780.

## PATIENT CARE

### 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

**Specialty services** for Glaucoma, Oculoplasty, Cornea, Paediatric Cataract, Strabismus, Ocular Trauma, ROP Screening, Medical Retina and Intravitreal injections

Services	OPD	Total IPD	Major OT	Minor OT
<b>Total</b>	11744	420	320	65

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Prof. (Dr.) Somen Misra

- 1) Conducted P.G. Ophthalmology examination held at JNM Medical College, Raipur.
- 2) Conducted 3<sup>rd</sup> MBBS part I exam held at J.N.M Medical College, Raipur.
- 3) Conducted online MCI inspection for post-graduate courses for Regional Institute of Ophthalmology, Ahmedabad and Regional Institute of Ophthalmology, Trivandrum.
- 4) Conducted physical DNB Ophthalmology final practical examination at Raipur.
- 5) Reviewer of Indian Journal of Ophthalmology, Middle East African Journal of Ophthalmology, Saudi Medical Journal and Journal of Clinical Ophthalmology and Research.

### Dr. Neeta Misra

1. Chaired session on “Empowering the Grey areas of Medical treatment” in 4<sup>th</sup> Biennial International ISCSGCON: 14<sup>th</sup> February 2021.
2. Conducted P.G Ophthalmology examination held at J.N.M Medical College, Raipur.

### Dr. Ankur K. Shrivastava

- 1) Serving as Editor proceedings of Chhattisgarh State Ophthalmic Society.
- 2) Serving as Chairman Scientific Committee of Association of Community Ophthalmologists of India, CG chapter.
- 3) Conducted 3<sup>rd</sup> MBBS part I examination held at J.N.M Medical College, Raipur.

Junior Residents - **Dr. Prithvi Naveen** won the Best debator award in the debate conducted as part of glaucoma week celebration at J.N.M Medical College, Raipur. **Dr. Sushree Satavisa**, **Dr. Mary Anto**, **Dr. Ashik R** and **Dr. Dani Yakang** had also participated in the same.

## Department of Orthopaedics

### Professor & Head

Prof. (Dr.) Alok C. Agrawal

### Associate Professors

Dr. Bikram Keshari Kar

Dr. Harshal S. Sakale

### Assistant Professors

Dr. Ranjeet Chaudhary

Dr. Sandeep Kumar Yadav (Till December 2020)

Dr. Alok Rai Raman (Till 30.07.2020)

## HIGHLIGHTS

The department of Orthopaedics provides quality health care, medical education at graduate, postgraduate levels and research activities including PhD in Orthopaedics course. Specialty care is provided to children with congenital club foot, patients presenting with sports injuries, problem related to spine, bone tumours, joint replacement and complex trauma. The Department of Orthopaedics has organized World Arthritis Day on 12<sup>th</sup> Oct, 2020, World Spine Day on 16<sup>th</sup> Oct. 2020, & World Osteoporosis Day on 20<sup>th</sup> Oct, 2020. The Department also organized Undergraduate and Postgraduate state Orthopaedic Quiz competition during the celebrations. The department also helped in

conduction of ISCSGCON 2021 on 13-14February 2021- the 4<sup>th</sup> bienneal hybrid conference of International Stem Cell at AIIMS Raipur CG and a CME on Regenerative Medicine. This conference was attended by more than 250 specialized doctors from all over the country and highly appreciated. In this current COVID-19 pandemic, Department of Orthopaedics is participating actively in management of COVID-19 patients in which faculty and residents are posted regularly on rotation basis. The department also has a poster gallery of laurels from world Orthopaedics which was inaugurated on 12 th October 2020 on the occasion of World Arthritis Day.

## EDUCATION

1. Organized a three days hybrid conference ISCSGCON 2021from 13- 14February 2021 at AIIMS, Raipur.
2. The department helped Indian Medical Association, Raipur branch in organising its scientific program under the able leadership of Prof. (Dr.) Alok C Agrawal as the Academy of Medical Sciences, Raipur Chairman on 13 and 14 March 2021
3. A national medical council recognised orthopaedic journal from central zone of IOA Journal of Orthopaedics, Traumatology and Rehabilitation is supported by the department with Prof. (Dr.) Alok Chandra Agrawal as the Editor in Chief and faculty- Dr. Bikram K. Kar and Dr. Harshal S. Sakale as Associate Editors.

## CMEs/Workshops/Symposia/National and International Conferences

Event	Date	Organised By
CME on Regenerative Medicine	13.02.2021	AIIMS, Raipur
ISCSGCON- 2021	13-14.02. 2021	AIIMS, Raipur
IMACGCON- 2021	13-14.02. 2021	AIIMS, Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

**Prof. (Dr.) Alok C. Agrawal**

S. No.	Title	CME/Conference	Date	Organised By
1.	Chronic Back pain -non spinal causes	CGIMACON 2021	13.03.2021	Ambrosie Hotel RAIPUR
2.	Role of stem cells in Orthopaedics	ISCSGCON 2021	13.03.2021	AIIMS Raipur
3.	Seronegative spondyloarthropathies-Why and what not to be missed	Coloured spectrum of Orthopaedic Rheumatology	18.04.2020	Online IORA and ISCSG India
4.	Diaphyseal Nonunions	AO Symposium on Diaphyseal nonunions	25.04.2020	Online AIIMS Raipur
5.	Peri prosthetic and peri implant fractures	Case base interactive discussion	25.04.2020	Online Gujarat Orthopaedic association
6.	Fractures of shoulder girdle-fracture clavicle scapula & AC Joint	Case base technical videos interactive discussion	26.04.2020	Online Gujarat Orthopaedic Association
7.	Fractures of shoulder girdle-fracture clavicle scapula & AC Joint	Case base technical videos interactive discussion	26.04.2020	Online Gujarat Orthopaedic Association
8.	Everything about GCT of bone	Master class	09.05.2020	Online
9.	Webinar on Spinal tuberculosis	Faculty for case based discussion in interactive session	31.05.2020	OJOT Webinar 2020 Online
10.	Webinar musculoskeletal oncology	Webinar on Musculoskeletal oncology	21.06.2020	Online- Ortho TV Live Jharkhand Orthopaedic Association

S. No.	Title	CME/Conference	Date	Organised By
11.	Module 5 on Ankle- PG teaching IOA webinar	Approaches to the ankle and foot	29.08.2020	online India Orthopaedics Association
12.	WBOA Midcon 2020	Upfront Surgery in Bone Tumours- Legal Aspects	10.10.2020	Online WBOA
13.	World Arthritis day	Musculoskeletal manifestation and Rheumatoid arthritis & seronegative arthritis	12.10.2020	AIIMS, Raipur Raipur
14.	World Spine Day	Preventive measures for low back ache	16.10.2020	AIIMS, Raipur Raipur
15.	World Osteoporosis Day	Orthopaedic perspective in the management of osteoporosis	20.10.2020	AIIMS, Raipur Raipur
16.	IMA first aid awareness programme	First aid in fracture	24.01.2021	Online webinar IMA first aid awareness programme ,

#### Dr. Bikram Keshari Kar

S. No.	Title	CME/Conference	Date	Organised By
1.	Webinar on Spinal tuberculosis	Examination of Spine	31-05-2020	OJOT Webinar 2020
2	World Spine Day	Preventive measures for low back ache	16/10/2020	OJOT Webinar 2020
3.	Proximal femur nailing	AO Symposium on Diaphyseal nonunions	25-4-2020	OJOT Webinar 2020
4.	Recent advances in TB spine	Bone & Joint TB (Tuberculosis week)	24-03-2021	OJOT Webinar 2020

#### Dr. Harshal Sakale

S. No.	Title	CME/Conference	Date	Organised By
1.	Portals for PRP injections in Orthopaedics	ISCSGCON 2021	13.02.2021	AIIMS, Raipur
2	Role of intramedullary nailing	AO Symposium on Diaphyseal nonunions	25-04-2020	Online Symposium organised by J&J



## Dr. Ranjeet Choudhary

S. No.	Title	CME/Conference	Date	Organised By
1.	Role of PRP in Planter Fascitis(Free Paper)	ISCSGCON 2021	14/02/2021	AIIMS, Raipur



Dr. Buddhadeb Nayak and Dr. Ankit Garg - winner of State Postgraduate Orthopaedic Quiz Competition-2020 receiving running Cup by Prof.(Dr.) Nitin M. Nagarkar Director AIIMS, Raipur



Inauguration Ceremony ISCSGCON 13 February 2021

## Medical Training in ICMR / NIE

S. No.	Training	Trainee	Name of Committee	Duration
1.	Basic Course in Biomedical Research	(i) Prof. (Dr.) Alok C. Agrawal (ii) Dr. Deepak Kumar Garg (iii) Dr. Pandiyarajan E.	ICMR & NIE	March- June 2020
2.	Trained in First National Medical Education Technology virtual training	Dr. Ranjeet Chaudhary	Medical Education Unit AIIMS, Raipur.	May-June 2020

## RESEARCH Funded Projects Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year- End year	Total funds sanctioned (Rs.)
1.	Correlation of Vitamin D levels with markers of Bone Metabolism in COVID 19 Patients	Prof. Dr. Alok C. Agrawal	AIIMS, Raipur	06 Months	June 2020	3.19 Lakh

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
2.	A Study Of The Role Of Platelet Rich Plasma In The Treatment Of Knee Osteoarthritis.	Dr. Harshal Sakale	AIIMS, Raipur	2 Years	—————	1.5 Lakh

### Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Estimation of Plasma interleukin-33 level in sickle cell disease patients with Hip osteonecrosis	Prof. Dr. Alok C. Agrawal	AIIMS, Raipur	02 Year 4 Months 7 days	31-12-2017 to 08-05- 2020	5,00,000.00

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

S. No.	Projects
1.	Correlation of spinopelvic parameters with chronic low back pain in young adults
2.	Comparative study of functional outcome of intra-articular distal end radius treated with variable angle locking compression plate versus fixed angle locking compression plate
3.	Correlation of serum magnesium level with severity of knee osteoarthritis.
4.	A comparative study between botulinum toxin type A versus tendoachillis surgical tenotomy in the management of idiopathic clubfoot by Ponsetti method
5.	A Comparison Of The Clinico-Radiological Outcomes Of Inter Trochanteric Fractures Treated Using Proximal Femoral Nail And Proximal Femoral Nail Anti-Rotation.
6.	Evaluation Of Functional Outcomes After Decompression Alone Vs Decompression With Fusion Surgery In Lumbar Spine Stenosis.
7.	Correlation Between Limb Length Discrepancy And Functional Outcome In Sickle Cell Disease Patients Following Total Hip Arthroplasty.
8.	Management Of Early Presenting Fracture Neck Of Femur In Young Adults: A Comparative Study Between Osteosynthesis With And Without Fibular Graft.
9.	Comparison Of The Functional Outcomes Of Transverse Patellar Fractures (AO Type 34-C1) By Management By Tension Band Wiring Using Cannulated Cancellous Screws Versus Tension Band Wiring Using Kirschner Wires.

## Completed

S. No.	Projects
1.	Estimation Of Plasma Interleukin-33 Level In Sickle Cell Disease Patients With Hip Osteonecrosis
2.	Characteristic Of Foot Morphology And Their Relationship To Gender, Age, Body Mass Index, Plantar Pressure Distribution And Bilateral Asymmetry In Indian Adults With Normal And Symptomatic Foot.
3.	Comparative Study Between Suprascapular Nerve Block Versus Platelet Rich Plasma In The Treatment Of Adhesive Capsulitis Of Shoulder Joint.
4.	Management of Clubfoot by Joshi's External stabilizing system. A comparison between spring and manual distractor.
5.	Correlation 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.

## 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 scheduled for upper limb surgery	Department of Anaesthesia AIIMS Raipur
3.	Prevalence, diagnosis and treatment of Nontuberculous Mycobacteria in India: A Multicentric project".	Department of Microbiology / Orthopaedics/Medicinep AIIMS Raipur
4.	Efficacy and safety of two treatment regimens of trenexamic acid in blood sparing effect in primary unilateral Total Hip Arthroplasties. A Randomised Control Trial	Department of Anaesthesia
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 intrarticular Ropivacaine and morphine and genicular nerve block for post operative analgesia in Knee Arthroscopic procedures	Department of Anaesthesia

## PUBLICATIONS

1. Agrawal A C, Mittal S, Sakale H, Yadav S K. Complications Following Fracture Neck of Femur Treated with Austin Moore Hemiarthroplasty:A Rare Case Report. JOTR 2020;1:102-105.
2. Agrawal A C, Rakshit J, Sakale H, Kar B. Assessment of Musculoskeletal Pain in Rheumatoid Arthritis Patients and its Relation to Vitamin D Levels.JOTR 2020;1:53-57.
3. Agrawal AC, Kowshik S, Kar B, Sakale S. Management of Clubfoot in Children above 5 Years with Differential Distraction Using JoshiExternal Stabilizing System. JOTR 2020;1;49-52.
4. Verma S, Agrawal AC. Anatomical Variation in the First Extensor Compartment during Treatment of De Quervain's Tenosynovitis. JOTR 2020;1:31-38.
5. Parija D, Kar B, Das P, Mishra J, Agrawal AC, Yadav S K. Septic arthritis of the knee due to Burkholderiapseudomallei: a case report. Tropical Doctor May 2020.
6. Agrawal AC. Insights in current Orthopaedic Practice. Editorial. JODP2020; 3(1): 1-2.
7. [Shilp Verma](#), [Alok Chandra Agrawal](#), [Buddhadeb Nayak](#), [Bikram Kar](#), [Harshal Sakale](#), [Sandeep K Yadav](#),Surgical anatomy of distal radius and surgical approaches for distal radius fractures.
8. Agrawal AC., Verma, S. Congenital Posterior Dislocation of Fibula with Pes Valgus Deformity. J O I O 5 5 , 2 1 9 – 2 2 3 ( 2 0 2 1 ) . <https://doi.org/10.1007/s43465-020-00215-2>.
9. Agrawal AC, Yadav SK, Ojha MM, Rakshit J. Giant Ewing's Sarcoma of the Body of the Scapula. Journal of Orthopaedic Case Reports 2020 November;10(8)DOI:10.13107/jocr.2020.v10.
10. Agrawal AC, Kowshik S, Ojha MM, Rakshit J, Choudhary R, Yadav SK. Primary coverage of donor site using expanded meshed skin graft in a polytrauma patient with degloving injury of foot. J OrthopTraumatolRehabil 2020 DOI:10.4103/jotr.jotr\_84\_20.
11. Ojha MM, Agrawal AC, Kar BK, Sakale HS. Complications of distal radius fractures. J Orthop Dis Traumatology 2020; 3 : 5 8 - 60.DOI:10.4103/JODP.JODP\_20\_20
12. Vishal Victor Kujur, Alok Chandra Agrawal, J Rakshit, Harshal Sakale, Bikram Keshri Kar, Sandeep Yadav. Classification systems of distal radius fractures . DOI:10.4103/JODP.JODP\_22\_20
13. Sameer Mittal, Alok Chandra Agrawal, Harshal Sakale, Bikram K Kar. Distal radial fractures: Conservative treatment . DOI:10.4103/JODP.JODP\_28\_20
14. Harshal Sakale, Alok C Agrawal, ShilpVerma, Bikram Kar. Distal radius plating: Role and significance . DOI:10.4103/JODP.JODP\_21\_20
15. Sandeep Kumar Yadav, Alok Chandra Agrawal, Rahul Ranjan, Rudra Narayan Das, Harshal Sakale, Bikram Keshari Kar. External fixator for distal radius fracture.DOI:10.4103/JODP.JODP\_25\_20
16. Bikram K Kar, Anand Kumar Singh, Sharath Kaushik, Sandeep K Yadav, Harshal S Sakale, Alok Chandra Agrawal Outcome of comminuted distal-end radius fracture managed with Ulna-Carpal and distal radius stabilization using percutaneous K-wires. DOI:10.4103/JODP.JODP\_23\_20.
17. Alok Chandra Agrawal, Subeer Kumar Mukharjee, GS Vyas, Pankaj Kumar Lakhtakia, Vinod Tiwari. Ipsilateral elbow and distal radial injuries: Experience with management . DOI:10.4103/JODP.JODP\_26\_20

## PATIENT CARE

Services	OPD	Spl. Clinic	Major OT	Minor OT	Procedure
<b>Total</b>	10840	179	678	15	7397

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Prof. (Dr.) Alok Chandra Agrawal :

1. Organizing Chairman, World Arthritis Day, 12<sup>th</sup> Oct 2020.
2. Organizing Chairman, World Spine Day, 16<sup>th</sup> Oct 2020 and ALL CG Postgraduate Orthopaedic Quiz.
3. Organizing Chairman, World Osteoporosis day, 20<sup>th</sup> Oct 2020 and all CG Undergraduate Orthopaedic Quiz.
4. 2<sup>nd</sup> prize to self written poetry competition in Hindi during Rajbhasha Pakhwada.
5. Organising Secretary 4<sup>th</sup> International Stem cell conference AIIMS Raipur 13-14 February 2021

### Dr. Bikram K Kar :

1. Co-Organizing Chairman, World Osteoporosis Day, 12<sup>th</sup> Oct 2020.
2. Co-Organizing Chairman, Postgraduate Orthopaedic Quiz, World Spine Day, 16<sup>th</sup> Oct 2020.
3. Co-Organizing Chairman, Undergraduate Orthopaedic Quiz, World Osteoporosis day, 20<sup>th</sup> Oct 2020
4. Member of Organizing committee, ISCSGCON 2021, AIIMS Raipur

### Dr. Harshal Sakale :

1. Selected for IOA-Yuva Mentor Fellowship 2020-2021
2. Co-Organising Secretary ISCSGCON 2021, AIIMS Raipur
3. Organizing Secretary, World Arthritis Day, 12<sup>th</sup> Oct 2020.
4. Organizing Secretary, Postgraduate Orthopaedic Quiz, World Spine Day, 16<sup>th</sup> Oct 2020.
5. Co-Organizing Chairman, Undergraduate Orthopaedic Quiz, World Osteoporosis day, 20<sup>th</sup> Oct 2020

### Dr. Ranjeet Choudhary :

1. Member of Organizing Committee, ISCSGCON 2021, AIIMS, Raipur.
2. Co-Organizing Secretary, World Arthritis Day.
3. Co-Organizing Secretary, Postgraduate Orthopaedic Quiz, World Spine Day.
4. Organizing Secretary, Undergraduate Orthopaedic Quiz, World Osteoporosis day.

## POSTS OF RESPONSIBILITY:

### Prof. Dr. Alok C Agrawal

1. Associate Editor Indian Journal of Orthopaedics
2. Member Scientific Committee, Raipur Orthopaedic Society
3. Chairman- Academy of Medical Sciences – Indian Medical Association , Raipur Branch
4. Editor- JOTR. An official journal of Central Zone of IOA
5. Member Indian Orthopaedic Association Orthobiologic Sub-committee
6. Member Indian Orthopaedic Association Medical Council Liason Committee.
7. Vice President Indian Orthopaedic Association Chhattisgarh Chapter
8. Vice President Indian Stem Cell Study Group Association India

## Department of Pediatrics

### Professor & Head

Dr. Anil K. Goel

### Additional Professor

Dr. Tushar Jagzape

### Associate Professors

Dr. Atul Jindal

Dr. Manas Ranjan Sahoo

Dr. Sunil Jondhale

### Assistant Professor

Dr. Tripty Singh

## HIGHLIGHTS

The department has started 1<sup>st</sup> DM Pediatric Emergency Programme started from 2020 July session.

Two seats each DM- Pediatric critical care and PDCC- Pediatric cardiac critical care is approved with annual intake of two seats from 2021 July session. State centre of excellence in SAM management (SCoE-SAM) in collaboration with NHM and UNICEF has done following activities, to decrease the malnutrition prevalence in the state. COE network meeting was held (8<sup>th</sup> & 10<sup>th</sup> December, 2020) to discuss the guidelines and operational issues of NRCs during the current Pandemic. Poshan Pakhwada was celebrated on 12<sup>th</sup> & 13<sup>th</sup> June, 2020 to encourage the villagers

regarding the importance of good feeding practices. Food demonstration training on breast feeding week and ORS week celebrated online on 11<sup>th</sup> August, 2021. CC-SAM training was conducted in Rajnandgaon (4<sup>th</sup> to 6<sup>th</sup> January, 2021). Measures were taken to rollout the CSAM programme in the state. Online capacity building training of PRI (Panchayati Raj Institution) members on their role and responsibilities towards community based management in their respective blocks & villages (Manpur and Mohla) was conducted the department has also. Celebrated World Cancer Day to disseminate the awareness regarding paediatric cancer.

## EDUCATION

Conducted induction program for Post graduate resident of pediatrics for 3 days from 09 to 10.11.2020 and from 22 to 24.03.2021 of two batches. Key highlights were PALS, NALS, 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”, “Triaging in Pediatrics.”

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

S. No.	Title	CME/Conference	Date	Organised By
1.	Pediatrics Cancer in Central India: Current Perspective	CME cum awareness program on World cancer Day	04.02.2021	Department of Pediatrics and Medical Oncology, AIIMS Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

Dr. Anil K Goel

S. No.	Title	CME/Conference	Date	Organised By
1.	Nutrition response on COVID-19 in Chhattisgarh	National Integrated Rural Movement for Action Network-NIRMAN	12.05.2020	UNICEF, Raipur
2.	NRC Management Services amid COVID-19 Pandemic	Orientation on NRC Management Services amid COVID-19 Pandemic	23.06.2020	UNICEF and Ministry of Health and Family Welfare, GOI
3.	Assessment of facility of Sickle Cell Disease (SCD) in India- Cross sectional multi centric study in SCD from AIIMS Raipur	Recourse person InPoG Subcommittee of IAP	16.08-.2020	Indian Academy of Pediatrics /PHO subcommittee
4.	How We Treat Sickle Cell Disease- A regional center experience in managing SCD	SCD webinar	12.09.2020	Novartis Healthcare Private Limited
5.	"Sickle Cell Disease: Recent Advances and Future"	SCD webinar	22.10.2020	Novartis Healthcare Private Limited
6.	MOU on promoting research between AIIMS and State Planning Commission, Chhattisgarh.	Virtual meeting of different Universities of CG in the presence of Hon CM Sri Bhupesh Bhagel	03.11.2020	State Planning Commission, Chhattisgarh
7.	Respiratory emergencies in children	Emergency Pediatrics & Injuries Congress 2020	22.11.2020	EPICON (INDO - US)
8.	ENT emergencies	Emergency Pediatrics & Injuries Congress 2020	06.12.2020	EPICON (INDO - US)
9.	Experience of State Center of Excellence- AIIMS Raipur-	National collaborative Meeting with UNICEF supported state	10.12.2020	UNICEF & NCoE, New Delhi
10.	ADVANCES in Vaso Occlusive Crisis	SCD webinar	11.12.2020	Novartis Healthcare Private Limited
11.	Emergency USG workshop	Emergency Pediatrics & Injuries Congress 2020	13.12.2020	Emergency Pediatrics & Injuries Congress 2020
12.	Infectious disease emergencies - What should we know	CG Pedicon	13.12.2020	IAP - CG
13.	Subject matter experts for OSCE writing workshop- Emergency Medicine	OSCE writing workshop	09 & 10.02.2021	Hotel Vivanta Dwarka, NBE, New Delhi

S. No.	Title	CME/Conference	Date	Organised By
14.	Presentation of article Global SWAY - AJH - 2020	Virtual Scientific Connect	16.2.2021	Online Microsoft connects Novartis Healthcare Private Limited
15.	Diagnosis and management of childhood tuberculosis	Updates on NTEP on World TB Day	21.03.2021	AIIMS, Raipur
16.	Role of Liquid Culture and Phenotypic DST in managing DRTB patients	Updates on NTEP on World TB Day	24.03.2021	AIIMS, Raipur

### Dr. Tushar Jagzape

S. No.	Title	CME/Conference	Date	Organised By
1.	Good Clinical Practices	Good Clinical Practice and Ethical issues in Research involving Human Subjects	06.10.2020	Rishiraj College of Dental Sciences and Research Centre, Bhopal
2.	Good Clinical Practices	Good Clinical Practice and Ethical issues in Research involving Human Subjects	29.10.2020	Dental College- LN City Dental College, Bhopal
3.	Record keeping (Documentation) & Medico-legal implications. &	Induction Programme of Post Graduate Junior Resident,	09 & 10.11.2020	Department of Pediatrics
4.	Good Clinical Practices	Good Clinical Practice and Ethical issues in Research involving Human Subjects	30.01.2021	AIIMS, Raipur
5.	Good Clinical Practices	Good Clinical Practice and Ethical issues in Research involving Human Subjects	14.03.2021	VY Hospital, Nava Raipur.

### Dr. Atul Jindal

S. No.	Title	CME/Conference	Date	Organised By
1.	Covid management - ICU and ventilator handling	Webinar for SAARC Countries	20.04.2020	MOHFW and AIIMS, Raipur
2.	Septic Shock what's new in 2020	Webinar: AWESOME	09.08.2020	AWESOMEAWE SOME
3.	Pediatric COVID	National Grand Round: COVID-	19.08.2020	AIIMS, Delhi and MOHFW
4.	Neonatal Resuscitation	SNCU doctors and Nurses training	24.08.2020	UNICEF, and NHM Chhattisgarh



S. No.	Title	CME/Conference	Date	Organised By
5.	Neonatal Resuscitation	SNCU doctors and Nurses training	31.08.2020	UNICEF, and NHM Chhattisgarh
6.	Neonatal Resuscitation	SNCU doctors and Nurses training	07.09.2020	UNICEF, and NHM Chhattisgarh
7.	Ventilation Physiology airway and Pulmonology mechanics	Webinar: IAP, Peer to Peer fellow Teaching	07.09.2020	IAP Intensive care Chapter
8.	Sickle Cell Disease in children	Webinar: Sickle Cell Expert Group Meeting	24.10.2020	SHRC, Chhattisgarh
9.	Neonatal Sepsis	Webinar: Neonatal Sepsis Expert Group Meeting	26.10.2020	NHM, Health dept Chhattisgarh
10.	Gentle ventilation prevention of BPD	CGNEOCON	01.11.2020	NNF, Chhattisgarh
11.	Neonatal Resuscitation	SNCU doctors and Nursesconclave	19.11.2020	MOHFW
12.	Drugs in COVID-19 in children	PEDICRITICON	4.12.2020	Indian Academy of Pediatrics
13.	Challenges and practical Solutions in COVID 19	World bank – HSSC Project Meeting	24.12.2020	World Bank, Health Sector Skill Council
14.	Status Epilepticus	Neuro-CME	14.02.2021	CG Indian Academy of Pediatrics
15.	Newborn Sepsis: Diagnostic Modalities	National Webinar on Newborn Sepsis	21.02.2021	AIIMS, Delhi
16.	Short Stature	DBAP Monthly Academic Meeting	27.02.2021	Durg Bhilai Academy of Pediatrics
17.	Vaccination in COVID	World bank – HSSC Project Meeting	02.03.2021	World Bank, HSSC
18.	Treatment of TB in Children	CME on World TBday	21.03.2021	AIIMS Raipur

#### Dr. Manas Ranjan Sahoo

S. No.	Title	CME/Conference	Date	Organised By
1.	Living well with Nephrotic syndrome	World Kidney Day 2021	20.04.2020	Dept of Nephrology& School of Public health AIIMS Raipur

### Dr. Sunil Jondhale

S. No.	Title	CME/Conference	Date	Organised By
1.	Pediatrics Stem Cell transplant	4 <sup>th</sup> Biannual International ISCSGCON 2021	13.02.2021	Indian Stem cell study Association
2.	History Taking in Pediatrics, Case-based learning on Triaging, Prescription writing and rational drug therapy.	Induction Programme of Post Graduate Junior Resident, Pediatrics	22 to 24.03.2021	Department of Pediatrics
3.	Case based assessment, History Taking in Pediatrics	Induction Programme of Post Graduate Junior Resident, Pediatrics	09 & 10.11.2020	Department of Pediatrics
4.	Pediatrics Cancer in Central India: Current Perspective	World cancer day	04.02.2021	Department of Pediatrics and Dept of Oncology AIIMS Raipur

### Dr. Tripty Singh

S. No.	Title	CME/Conference	Date	Organised By
1.	Cough Syrup in Children	CG Pedicon 2020	12.12.2020	Indian Academy of Pediatrics

### ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	<b>Goel AK</b>	A regional center experience in managing SCD	PHO meeting for SCD	12.09.2020	Pediatric Hemato Oncology society
2.	<b>Jindal A,</b> Nagarkar NM, Goel AK	A Hybrid form of telemedicine and quality improvement: A unique way to extend intensive care services to neonates in medically underserved areas (Top 50 abstracts and WFPICCS Mentorship award)	10 <sup>th</sup> Congress of the World Federation of Pediatric Intensive & Critical Care Societies 2020	03-12.2020	World Federation of Pediatric Intensive & Critical Care Societies
3.	<b>Sunil Jondhale,</b> A K Goel, Rakesh Kumar Gupta	Pulmonary LCH in a child exposed to chronic passive smoking	Pediatrics Hematology Oncology International Conference	19-21 2021	International Society of Pediatrics Oncology
4.	<b>Juliet Johns,</b> Sunil Jondhale, Anil K Goel	Assessment of splenic dysfunction in sickle cell disease in children	CG Pedicon	13.12.2020	CG Indian Academy of
5.	<b>Prakash G.M,</b> Sunil Jondhale, A.K Goel	Ewing's Sarcoma in Children - A Case Series From Central India	7th Annual Meeting of the Indian Musculoskeletal Oncology Society (IMSOS 2021)	05 to 07.03.2021	Indian Musculoskeletal Oncology Society

S. No.	Authors	Title	Conference	Date	Organised By
6.	<b>Anjali,</b> Sunil Jondhale Anil K Goel	MALToMa of minor Salivary gland of lip in a young girl: A case report	Central Pedicon 2020	22 to 29.08.2020	Central Zone e-Pedicon
7.	<b>Juliet Johns,</b> Sunil Jondhale, Anil K Goel	Assessment of splenic dysfunction in sickle cell disease in children	Central Pedicon 2020	22-29.08.2020	Central Zone e-Pedicon
8.	<b>G. Chandana</b> Sunil Jondhale	Impact assessment of mHealth (mobile health) follow up of children with severe malnutrition (SAM) of Chhattisgarh state during COVID-19 pandemic:A quality improvement	Central Pedicon 2020	22-29.08.2020	Central Zone e-Pedicon

## RESEARCH Funded Projects Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year- End year	Total funds sanctioned (Rs.)
1.	Study of Emerging Biomarkers of Renal Injury in Acute Kidney Injury in Term Neonates with Perinatal asphyxia – A Nested Case Control Study	Dr. AK Goel	AIIMS Raipur	1year	January - December 2021	5,00,000
2.	AIIMS Raipur : Initiating Antimicrobial Stewardship activities in hospitals in India	Dr Tushar Jagzape,	ICMR- New Delhi	3 years	April 2019 to March 2021	10,00,000
3.	Burden of Multidrug Resistant Neonatal Sepsis in district hospital settings in India	Atul Jindal	Bill and Melinda Gates Foundation	30 Months	2019-2021	56,00,829
4.	Quality Improvement Project to Improve Maternal and Newborn Care In 10 Aspirational Districts of Chhattisgarh	Atul Jindal	UNICEF	5 years	2019 -2024	53,34,857

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
5.	Setting up of registry for renal complication in Indian children with sickle cell disease, the Indian sickle cell nephropathy (ISN) Consortium.	Atul Jindal	ICMR	2.5 years	2020-2022	56,00,000

## Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	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		June 2018-June 2020	2,00,000
2.	A randomized, open-label, multicentre study to evaluate the efficacy and safety of Favipiravir combined with standard supportive care in adult Indian patients with mild to moderate COVID-19	Dr. Atul Jindal	Glenmark Pharmaceuticals	3 months	2020	32,00,000
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 Biologics	6 months	2020-2021	24,00,000

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

S. No.	Projects
1.	Intravenous morphine versus intravenous ketorolac for the management of severe vaso occlusive crisis in children with sickle cell disease. A randomized controlled trail.
2.	Initial Fluid Bolus Versus No Bolus in the resuscitation of septic shock in children. A randomised control trial.
3.	Retrospective study on antibiotic surveillance and body fluid culture profile in PICU.
4.	Social and demographic factors for obesity & Prevalence of depression in obese children of age group 6 to 12 years visiting AIIMS OPD/IPD.
5.	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.
6.	Prediction of mortality among neonates using a Perinatal and acute physiological aberration score (PAPAS): Pilot study
7.	Role of intravenous Dexamethasone in prevention of post extubation air way obstruction - a randomized double blinded trial,
8.	Coronavirus - 19 and kids epidemiologic study,
9.	Intravenous levetiracetam versus intravenous phenytoin for second line treatment of pediatric convulsive status epilepticus-open label randomized controlled trial,
10.	Psychological impact of COVID-19 pandemic on Health Care Workers in AIIMS Raipur.
11.	Novel Corona virus (nCOVID 19) exposure during pandemic and potential risk exposure leading to infection among health care workers, working in Corona ward at AIIMS Raipur-,
12.	Diversity of clinical profile in children with Sickle cell disease from central India
13.	Factors affecting initiation of breastfeeding in first twenty four hours after birth at AIIMS, Raipur,
14.	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
15.	Nutritional Status of Children with Cerebral Palsy at a Tertiary Care Hospital,

## Completed

S. No.	Projects
1.	Splenic dysfunction in children with Sickle cell disease-
2.	Impact assessment of mHealth (mobile health) follow up of Severe Acute Malnourished (SAM) Children of Chhattisgarh state during COVID-19 Pandemic, Dr. Anil K. Goel
3.	Pattern and outcome of patients in Pediatric Emergency Medicine unit: An Indian perspective, Dr. Anil K. Goel

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	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.	U N I C E F a n d Kalawati Saran Childrens Hospital, New Delhi

### Completed

S. No.	Project	Collaborating Department/Institution
1.	Survey of Pediatric Medication Re-dosing Practices after vomiting in tertiary care hospital in India	Department of Pharmacology, AIIMS, Raipur
2.	To Analyze Standardization of Blood Dosage Using Body Surface Area and Effect of Blood Storage within the Pediatric Transfusion Recipients	Department of Transfusion Medicine, AIIMS, Raipur

## PUBLICATIONS

- Goel, A.K.**, Chawla, S., Dhingra, A. et al. Rotavirus Diarrhea and its Determinants Among Under-Five Children Admitted in a Tertiary Care Hospital of Southern Haryana, India. *Indian J Pediatr* 88, 16–21 (2021). <https://doi.org/10.1007/s12098-020-03616-1>
- Chawla, S., **Goel, A.K.**, Thiyagarajan, V. et al. 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, 138–143 (2021). <https://doi.org/10.1007/s12098-020-03611-6>
- Goel AK**, Shah S. Hyperglycemia: An independent accompaniment of COVID – 19. *J Family Med Prim Care* 2021;10:583
- 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
- Shah S, **Goel AK**. Community participation leads the road to epidemic free country. *J Family Med Prim Care* 2020;9:5389-90
- Shah, S., **Jondhale, S.**, Nanda, R. Mohapatra E, **Goel AK**. Sickle Cell Trait Presenting as Chronic Calcific Pancreatitis with Pseudocyst- A Case Report. *Ind J Clin Biochem* 36, 239–241 (2021). <https://doi.org/10.1007/s12291-020-00910-9>
- Jagzape TB, Goel AK**, Inclusion of Multisystem Inflammatory Syndrome in Children and Adolescents Temporally Related to COVID -19 in the Differential Diagnosis of Kawasaki Disease. *Indian Pediatrics* 2021;58(02):191. DOI: [10.1007/s13312-021-2146-1](https://doi.org/10.1007/s13312-021-2146-1)
- Jondhale, S.**, Tiwari, K., Jain, R., Gupta, R. K., Shah, S., **Goel, AK**. Pulmonary Langerhans cell histiocytosis presenting as skin lesion in a young child exposed to chronic passive smoking: A case report. *Indian Journal of Child Health*, 7(5), 239-241. <https://doi.org/10.32677/IJCH.2020.v07.i05.013>
- Jeayareka J, Krishnan R, Singh LK, **Jagzape T**. Effectiveness of virtual reality therapy on

anxiety and symptom distress with chemotherapy among children with cancer. *Int. J. Res. Pharm. Sci.*, 2020, 11 (SPL4), 3117-3123. <https://doi.org/10.26452/ijrps.v11iSPL4.4640> (December 2020)

10. Singh S, Varshney A, Borkar N, **Jindal A**, Padhi P, et al. Clinical Utility of Stem Cells in Congenital Anomalies: New Horizons in Pediatric Surgery. *IndianJSurg*(May 2020);82(suppl 1).
11. Thangaraju P, **Jindal A**. Prerequisite of doing clinical trial with drugs in COVID-19 patients: Situational experience: *Perspect Clin Res* 2020 Jul-Sep;11(3):135
12. Thangaraju P, **Jindal A**, Venkatesan S,

Guruthalingam MP, Venkatesan N, Thangaraju E. Does Metformin Satisfy as an Option for Host-Directed Therapy in COVID-19? *Anti-Infective Agents* 202;19(2):123-30.

13. Patel S, Verma NR, Padhi P, **Naik T**, Nanda R, Naik G, et al. Retrospective analysis to identify the association of various determinants on birth weight. *J Family Med Prim Care* 2021;10:496-501
14. Patel S, Padhi P, Priya R, **Naik T**, Nanda R, Mohapatra E. A cross-sectional study on parental awareness for newborn screening and assessment of the burden of congenital hypothyroidism and glucose 6-phosphate dehydrogenase deficiency. *Indian J Community Fam Med* 2020;6:132-6

### Abstracts published in journal

Sharma, **S Jondhale**, M Patel, A Shukla and AK Goel. To analyse standardization of blood dosage by the body surface area and the effect of blood storage towards the post-transfusion hemoglobin levels within pediatric transfusion recipients. *Vox Sanguinis*, 10 December 2020. <https://doi.org/10.1111/vox.13031>

### Chapter in Books

S. No.	Author(s)	Chapter	Name of the Editor	Book	Edition	City of Publication	Publisher	Year of Publication
1.	Williams V, Jindal A, Singhi SC	Acute Chest Pain	Sunit C Singhi & M Jayashree	PGIMER Management Protocols in Pediatric Emergency	2 <sup>nd</sup>	Delhi	Indian Journal of Pediatrics	2021
2.	Angurana SK, Jindal A, Singhi SC, Jayashree M	Pediatric Cardiopulmonary Resuscitation and Stabilization	Sunit C Singhi & M Jayashree	PGIMER Management Protocols in Pediatric Emergency	2 <sup>nd</sup>	Delhi	Indian Journal of Pediatrics	2021
3.	Lad S, Bansal A, Grover A, Jindal A	Acute Asthma	Sunit C Singhi & M Jayashree	PGIMER Management Protocols in Pediatric Emergency	2 <sup>nd</sup>	Delhi	Indian Journal of Pediatrics	2021

### PATIENT CARE

IPD & OPD patient data

Services	OPD	TELE-MEDICINE	IPD
<b>Total</b>	<b>8289</b>	<b>1028</b>	<b>2457</b>

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Dr. Anil K Goel

1. Introduced INTERNATIONAL CGR PEM in the department (Pediatrics Emergency) in Jan2021
2. Faculty INDO-US Fellowship in Pediatric Emergency Medicine
3. Recognized as a INDUS -EM leader through TEAM news letter
4. Nodal officer, Yojana Ayoga Prakostha (State planning Commission)
5. Dr. Juliet Johns (Chief Guide: Dr. A. K. Goel) got Gold Medal in oral paper award at CG Pedicon2020.
6. Executive Member of InPOG- Hemoglobinopathy subcommittee of IAP PHO chapter
7. Member-NIRMAN -Network of Institutions for responding to Malnutrition- A Coalition of Nutrition Partners in Chhattisgarh
8. Chairperson, PG Research Cell, Medicine Speciality
9. Chairperson, Institutional Research cell subcommittee "Research Policy subcommittee"
10. Chairperson, Technical evaluation committee
11. Associate Editor "Indian Journal of case reports".

### Dr. Tushar Jagzape

1. Special training course attended:2nd National ToT on "UNDER 5 WHEEZER" as a Virtual Program under dIAP Platform held on Sunday, the 19th July 2020.
2. Invited: to join the Editorial Board of Pediatric Cardiology as Review Editor for Frontiers in Pediatrics and Frontiers in Cardiovascular Medicine. Oct 2020
3. Award: Won – online quiz competition held in the Basic Course for Ethics Committee Members organized by MY QUALITY TEAM, March 2021.
4. Member Secretary, IEC AIIMS Raipur.
5. Chaired a session in CME on World TB day.

### Dr. Atul Jindal

1. WFPICCS Mentorship award for oral presentation on "A Hybrid form of telemedicine and quality improvement: A unique way to extend intensive care services to neonates in medically underserved areas" in 10<sup>th</sup> Congress of the World Federation of Pediatric Intensive & Critical Care Societies 2020.
2. Chairman for Standard Treatment Guidelines on Child Health, emergency and ICU care for Chhattisgarh.
3. National Mentor for implementation of LaQshya Labour Room Guidelines
4. Master Trainer for International Educational Course on Pediatric Pulmonology, Critical Care and NIV.
5. Member of National Newborn Sepsis Expert Group
6. Member of State Taskforce of Newborn and Child Health
7. Member of State Antimicrobial Consortium
8. Member of State Antibiotic Committee.
9. Executive Board Member of Critical Care Chapter of IAP
10. State Coordinator of IAP ALS and BLS courses.
11. Associate Editor of Journal of Pediatric Critical Care
12. Moderated Sessions on Autism, short stature, genetic disorders in Central Zone E-Pedicon

### Dr. Sunil Jondhale

1. As judge on online scientific paper presentation in Cardio diabetic society/ACP, AIIMS, Rishikesh.

### Dr. Tripty Singh

1. Attended GCP training held on 30th January 2021 at AIIMS, Raipur



## Department of Paediatric Surgery

### Additional Professor & Head

Dr. Nitinkumar B. Borkar

### Assistant Professors

Dr. Charu Tiwari

Dr. Sonali Mane

### HIGHLIGHTS

Department has started indoor services at Hospital Building, 3rd Floor, 3C4 Block as per original plan of the Hospital, this new Pediatric Surgery ward is children friendly but due to COVID-19 as per demand of Hospital Administration it was handed over to COVID-19 unit.

Department provides OPD on all working day with special clinic on Monday for Hypospadias. The Department conducts regular orientation program for Junior Residents and Nursing Staff, on every

Saturday. The Department is treating all neonatal surgical emergencies.

Department runs OPD on all day in week except Sunday and Emergencies on all days in a week.

Special clinic is run for Hypospadias on Monday.

Department provides information regarding pediatric injury prevention by means of various means to parents visiting to OPD. Department OPD is running in a child friendly area with separate play zone for the kids.

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

Department organized various activities on the occasion of World Hearing day 3<sup>rd</sup> March 2021 under the aegis of World Health Organization, spread over a week:

#### World Hearing Day:- 2021

S. No.	Date	Programme	Title
1.	17.02.2021	Workshop Department of Pediatric Surgery in Collaboration with ETHICON India	<b>Science of Energy</b>

### RESEARCH

#### Funded Projects

#### Ongoing

S. No.	Title	Funding Agency
1.	Accuracy of The Broselows Pediatric Emergency Tape At Predicting Weight In Children Of Central India	Non-Funded
2.	Pedicled Prepuical (Byar's) Flaps vs Inner Prepuical Free Graft for Staged Hypospadias Repair. A Randomized Controlled Trial	Non-Funded
3.	Randomized Control Trial Comparing Ultrasound Guided Therapeutic Transcutaneous Aspiration (USG-TCA) And Standard Incision Drainage (I&D) In Panton-Valentine Leucocidin (PVL) Toxin Producing Staphylococcus aureus Superficial Soft Tissue Abscess (SSTA) In Pediatric Patients: A Hospital Based Pilot Study	AIIMS, Raipur

## Collaborative Projects Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Assessment of Impact of Covid - 19 on Drug Store Management at AIIMS Raipur	School of Public Health

## PUBLICATIONS

- 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.
- Tiwari C**, Borkar N. Evaluation of tunica vaginalis free graft as a better alternative to tunica vaginalis pedicled flap for providing waterproof cover in stage II hypospadias repair. Afr J Paediatr Surg 2021; 18:90-3.
- Tiwari C**, Shah H, Sandlas G, Shenoy NS, Gandhi S. Single- incision Laparoscopy-assisted Appendectomy in the Pediatric Age Group: Our Experience. World J Lap Surg 2020;13(2):77-79.
- Tiwari C**, Shah H, Sandlas G, Bothra J. Paediatric Intussusception: A Clinical Scoring System to Predict the Risk of Operative Intervention. Jour of Mother and Child 2020; 24(1): 19-23
- Tiwari C**, Nagdeve N, Saoji R. Persistent Vitellointestinal Duct beyond neonatal period: A unique presentation of transumbilical prolapse of latent Vitellointestinal duct with prolapsed orthograde ileal intussusception ACG Case Rep J 2020;7:e00510.
- Tiwari C**, Nagdeve N, Saoji R, Hatwar G, Sinha S, Thatte S. Congenital Hepatic Arteriovenous Malformation presenting as isolated massive hepatomegaly in an otherwise healthy neonate. Jour of Mother and Child 2020; 24(1): 19-23.
- Tiwari C**, Nagdeve N, Saoji R, Nama N, Joshi S. Large Congenital Epulis: A Neonatal Tumour with Striking Appearance, but Simple Management, Fetal and Pediatric Pathology 2020.

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	CME/Conference	Date	Organised By
1.	Tiwari C, Borkar N	Is Tunica Vaginalis Free Graft A Better Alternative To Pedicled Flap For Providing Waterproof Cover In Second Stage Hypospadias Repair?	IAPSCON	16 to 18 October, 2020	Indian Association of Pediatric Surgeons, India
2.	Tiwari C, Borkar N, Singh S, Mane S.	Congenital Duodenal Atresia: Is There A Need To Redefine The Present Classification?	IAPSCON	16 to 18 October, 2020	Indian Association of Pediatric Surgeons, India
3.	Tiwari C, Shah H.	Anterior Sagittal Anorectoplasty With Inflated Bulb Of Catheter For Fistula Dissection	27 <sup>th</sup> International Conference of Pediatric	12 and 13 December 2020	Pediatric Colorectal Club, New Delhi, India
4.	Tiwari C, Nagdeve N, Saoji R.	Mayer-Rokitansky-Kuster-Hauser (Mrkh) Syndrome Associated With Anorectal Malformation (Arm): A Singlecentre Experience	27 <sup>th</sup> International Conference of Pediatric	12 and 13 December 2020	Pediatric Colorectal Club, New Delhi, India

## PATIENT CARE

Services	OPD	IPD	Major OT	Minor OT
<b>Total</b>	1313	307	171	11

## Department of Pathology & Lab Medicine

### Professor & Head

Dr. Amit Kumar Chowhan (From 04.11.2020)

### Additional Professors

Dr. Nighat Hussain

Dr. Rahul Satarkar (From 16.12.2020)

### Assitant Professors

Dr. Vandita Yogendra Singh

Dr. Rakesh Kumar Gupta

Dr. Ashish Kumar Gupta

Dr. Yashita Gupta (From 03.12.2020)

## HIGHLIGHTS

This year show establishment of central laboratory facility in D Block. Regular External Quality Assurance programme are being done with various reputed labs of the country(Histopathology with AIIMS, New Delhi & ISHTM EQUAS for Hematology with AIIMS, New Delhi, ISHBT Coagulation profile with CMC, Vellore, Cytopathology with Indian Academy of Cytology and Immunohistochemistry (HCG EQUAS) with Tata

Memorial Centre, Mumbai. Addition of new tests like protein electrophoresis, additional parameters for coagulation assay, expansion of IHC panel are few of the new dimensions achieved in this year. Procurement and installation of various instruments like grossing station, autoclave, hot air oven was done.

## EDUCATION

Ongoing academic courses include MBBS, MD, Nursing, B.Sc MLT and PhD. PhD course was started in pathology with intake of one student during the year 2020. Proposal for increase of MD seat from four to six per year was made in academic senate meeting during the year 2020. Postgraduate and PhD teaching includes full week academic activities in the form of topic seminars, journal clubs, recent updates, gross pathology, case discussion and tutorials. Regular inter-departmental Clinicopathological correlation meetings (CPCs) and tumor board meetings are organized throughout the year.

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Amit Kumar Chowhan

S. No.	Title	CME/Conference	Date	Organised By
1.	Etiopathogenesis of Breast Carcinoma	Breast Cancer Health Awareness Program	27.11.2020.	Department of General Surgery, AIIMS,

### Dr. Vandita Singh

S. No.	Title	CME/Conference	Date	Organised By
1.	Stem cells in Gliomas	Annual conference of Indian Stem cell society	14.2.2021	Indian Stem cell Society / at AIIMS Raipur

## Dr. Rakesh Kumar Gupta

S. No.	Title	CME/Conference	Date	Organised By
1.	Etiopathogenesis of Cancer	World cancer day	04.02.2021	Department of Pediatrics , AIIMS, Raipur

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Dr. Vandita Singh	Discussion of a rare case of Astroblastoma	NPSI 2020 Webinar	11.12.2020	Neuropathology Society of India, NIMHANS Bengaluru
2.	Khangar B, <b>Gupta RK</b> , Jondhale S, Goel AK	Isolated pulmonary-cutaneous involvement of Langerhan's cell histiocytosis in a toddler	Virtual Annual Conference of Dermatopathology Society of India	15.01.2021	CMC, Vellore
3.	Jondhale S, Goel AK, <b>Gupta RK</b>	Pulmonary LCH in a young child exposed to chronic passive smoking	XIII SIOP Asia conference	19th-21st March 2021	International Society of Pediatric Oncology

## 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 Co-expression of p 16 & 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.	Triple negative breast cancer; immunohistochemistry based genomic profiling and correlation with the histomorphology and outcomes	Dr Rakesh Kumar Gupta	AIIMS, Raipur	2 years	2020-22	5,00,000/
3.	Multigenic Analysis in Patients with Malignant Pleural Effusion using Cytological Specimens: A Sensitive Method for Molecular Studies in Advanced Staged Malignancies	Dr. Ashish Kumar Gupta	AIIMS, Raipur	2 years	2021-2023	5,00,000/

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

S. No.	Projects
1.	Expression of Estrogen Receptor, Progesterone Receptor and Programmed Death Ligand 1 in Meningioma: An Immunohistochemical analysis
2.	Clinicopathological and immunohistochemical profile of CNS gliomas in a tertiary care institute.
3.	Immunophenotypic Profile of High Grade B-Cell Lymphomas at a Tertiary Care Centre In Central India.
4.	Assessment of Milan system for reporting salivary gland cytopathology a tertiary care institute.
5.	Application of sydney system for lymph node cytology at a tertiary care centre in Central India.
6.	EExpression of vascular endothelial growth factor (VEGF) and programmed cell death ligand – 1 (PDL-1) in epithelial ovarian carcinoma at a tertiary care centre in central India.
7.	Cyto-histomorphological correlation in a cohort of thyroid lesions over a seven (7) year period, with evaluation of BRAF immunohistochemical test as a diagnostic and prognostic marker in thyroid lesions
8.	Clinicopathological study of cohort of meningiomas and their Ki-67 proliferation indices

## Completed

S. No.	Projects
1.	EClinicopathological and Immunohistochemical profile of Primary Lung Carcinomas in a Tertiary Care Hospital.
2.	Histopathological Profile of Carcinoma Cervix: Experience from Tertiary Care Center.

## Collaborative Projects Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Retrospective review of clinical and histopathological parameters of oral cavity carcinoma patients operated at AIIMS Raipur 2015-2020.	ENT, AIIMS, Raipur
2.	Characterization of Prostatic Lesion on Multiparametric MRI – An Institutional Study	Radio diagnosis, AIIMS, Raipur
3.	Analysis of Prognostic Biomarkers in Oral Cavity Squamous Cell Carcinoma	ENT, AIIMS, Raipur
4.	Evaluation of prevalence of HPV in Head and Neck malignancies.	Otorhinolaryngology AIIMS, Raipur
5.	Role of Diffusion Weighted Imaging and dynamic contrast enhanced MRI For Preoperative evaluation of endometrial carcinoma with assessment of myometrial Invasion.	Radiodiagnosis AIIMS, Raipur
6.	Detecting vertical transmission of coronavirus SARS-COV-2 from infected pregnant women to the fetus in utero.	Obstetrics & Gynecology, AIIMS, Raipur

S. No.	Project	Collaborating Department/Institution
7.	Study of Epidemiological, clinical & pathological profile of breast carcinoma in patients cohort from AIIMS Raipur)	General Surgery, AIIMS, Raipur
8.	Incidence, Pattern and Degree of hearing loss following Acute CNS Infection (Meningitis and Meningoencephalitis) in children (neonate - 15years)	Department of ENT
9.	IL-10 in breast carcinomas- is it a prognostic factor	Department of General Surgery
10.	Comparison Of Diagnostic Accuracy Of The Risk Of Malignancy Index, IOTA-Simple Rules And IOTA ADNEX Model In Discriminating Benign From Malignant Ovarian Tumors	Obstetrics& Gynecology, AIIMS, Raipur
11.	Prenatal diagnosis of congenital anomalies – prevalence,pattern and perinatal outcome	Obstetrics& Gynecology, AIIMS, Raipur
12.	Pilot study -clinical, radiological and pathological co-relation of mandibular invasion in carcinoma oral cavity	Otolaryngology, AIIMS, Raipur
13.	Role of diffusion weighted imaging and dynamic contrast enhanced mri for preoperative evaluation of endometrial carcinoma – a pilot study	Radiodiagnosis, AIIMS, Raipur

## Completed

S. No.	Project	Collaborating Department/Institution
1.	Differentiation Between Classic and Atypical Meningiomas by diffusion tensor imaging and diddusion imaging with 3 Tesla MRI.	Radiodiagnosis, AIIMS, Raipur
2.	Assessment of Splenic Dysfunction In Sickle Disease In Children	Pediatrics, AIIMS, Raipur
3.	Study of the prevalence of Atherosclerotic Lesions In Heart and Major Blood Vessels in Autopsy.	Forensic Medicine, AIIMS, Raipur
4.	Clinico-pathological correlation of ovarian tumours - A retrospective cross sectional study.	Obstetrics & Gynecology, AIIMS, Raipur
5.	Serum testosterone level and semen quality in male patient with Sickle Cell disease attending AIIMS Raipur OPD.	Obstetrics & Gynecology, AIIMS, Raipur
6.	Bcl2 in preinvasive and invasive carcinoma cervix	Obstetrics and Gynaecology

## PUBLICATIONS

1. Mani Deepthi D, Vaikkakara S, Patil A, Ganta S, Sachan A, Raghavendra K, Kiranmayi VS, **Chowhan AK**. Effect of Correction of Hyperthyroidism with Anti-thyroid Drugs on the Glycated Hemoglobin in Non-diabetic Patients with Primary Hyperthyroidism. *Int J Endocrinol Metab* 2021;19:e105751.
2. Hulikal N, Re A, Banoth M, **Chowhan AK**, Yutla M, Sachan A. Can preoperative serum thyroglobulin levels predict the risk of malignancy? Results from prospective analysis of biochemical predictors of malignancy in thyroid nodules. *Acta Otorhinolaryngol Ital* 2020;40:33-37.
3. Telugu RB, **Chowhan AK**, Rukmangadha N, Patnayak R, Phaneendra BV, Mowliswara Prasad BC, et al. Estrogen and progesterone receptor in meningiomas: An immunohistochemical analysis. *J Can Res Ther* 2020;16:1482-7.
4. Udayagiri DS, **Chowhan AK**, Nandyala R, Prayaga AK, Lakshmi AY, Venkata PB et al. Primary Paediatric CNS Tumours: A 25 Years Analysis at a Tertiary Referral Centre in Southern India. 2020;14:EC01-EC05.
5. Panwar H, Ingle P, Santosh T, **Singh V**, Bugalia A, **Hussain N**. FNAC of breast lesions with special reference to IAC standardized reporting and comparative study of cytohistological grading of breast carcinoma. *J Cytol* 2020;37:34-9.
6. Mehta R, Krishna Sasanka KSB, **Hussain N**, Nagarkar NM. A rare case presentation of Tuberculous Otitis Media with turner syndrome. *Indian journal of tuberculosis* 2020;67:444-7.
7. Akhade S, Ghormade PS, Bhengra A, Chavali K, **Hussain N**. Uterine scar rupture at the site of the placenta accreta presenting as a case of sudden death. *Autopsy case reports* 2021;11:202.
8. Patel S, Nanda R, **Hussain N**, Mohapatra E, Patra PK. Frequency distribution of the methylenetetrahydrofolate reductase polymorphisms in sickle cell hemoglobinopathy-A hospital based study in central India. *Clinical Epidemiology and Global Health*; 10 (2), 10069.
9. Rao S, **Singh V**, Hafeez A A, Agarwal SS. Juvenile Psammomatoid Cemento-ossifying Fibroma of Mandible: a Diagnostic dilemma. *BMJ Case Rep* 2021;19:e240952.
10. Mehta R, Mishra A, Nagarkar NM, **Singh V**. First branchial cleft fistula: a case report. *Int J Otorhinolaryngol Head Neck Surg* 2020;6:1568-71.
11. Dambhare PT, **Singh VY**. Challenges in interpretation of eosinophilia associated with leukemia: case report of two cases. *Indian J Applied Research* 2020;10:46-8.
12. **Gupta RK**, Singh BP, Singh BR. Rhinosporidiosis in Central India: A cross-sectional study from a tertiary care hospital in Chhattisgarh. *Trop Parasitol* 2020;10:120-3.
13. **Gupta RK**,Batra VV, Srivatava AK, Sharma MC. Papillary tumor of the pineal region: A case with unique immunohistochemical keratin expression pattern. *Indian Journal of Medical and Paediatric Oncology* 2020;41:412.
14. Gupta SK, Nayak N, Gandhoke CS, **Gupta RK**, Sharma AK, Singh P, Sharma R, Nehete LS. A giant nondural-based lumbosacral clear cell meningioma mimicking schwannoma: A case report and review of the literature. *Asian J Neurosurg*2021;16:44-50.
15. Gupta SK, Singh P, **Gupta RK**, Sharma R, Nehete LS. Infected congenital lumbosacral dermal sinus tract with conus epidermoid abscess: a rare entity. *Childs Nerv Syst* 2021;37:741-747.
16. Jamal I, **Gupta RK**, Raj S, Bhadani PP. Endometrial and cervical osseous metaplasia with extramedullary haematopoiesis presenting as amenorrhea: Report of three cases. *Indian J PatholMicrobiol*2020;63:295-7.
17. **Gupta RK**, Sakhuja P, Govind H, Agarwal AK. Does IgG4 level evaluation in pancreatic mass play role in avoiding major surgery in uncertain presentation: A case report. *Indian J PatholMicrobiol*2020;63:282-5.
18. S Jondhale, Tiwari K, Jain R, **Gupta RK**, Shah S, Goel AK. Pulmonary Langerhan's cell histiocytosis presenting as skin lesion in a young child exposed to chronic passive smoking: A case report. *Indian J child health* 2020;7:239-41.
19. Dambhare-Wasnik P, **Gupta AK**. Primary Thyroid Lymphoma in an Adult Male: A Rare Presentation *JCDR* 2020;14:ED07-ED09.
20. Tummidhi S, Balakrishna P, **Gupta Y**. Insulin-induced amyloidoma-A cytological catch. *Diagn Cytopathol* 2021;49:424-8.

### Abstract Published in Journal:

C Singareddy, R Manthri, T Kalawat, V Venkatarami Reddy, H Narendra, B Devi, Vijaya Lakshmi, AChowhan. Utility of F-18-FDG PET/CT in Management of Pancreatic and Periampullary Masses: Experience of a Tertiary Care Center in South India. Eur J Nucl Med Mol Imaging 2020;47:385.

### Chapter in Book

S. No.	Author(s)	Chapter	Name of the Editor	Book	Edition	City of Publication	Publisher	Year of Publication
1.	Gupta RK, Wasnik P	Extra-Uterine Fibroids	Hassan Abduljabbar	Fibroids	1st ed	Rijeka	Intechopen	2021

### PATIENT CARE

No. of investigations	Immunopathology	Cytopathology	Hematology	Clinical Pathology
5374	2766	2894	130811	16269

### Other Academic Activities

#### Dr. Amit Kumar Chowhan:

**Reviewed** 12 articles for five journals (Publons Verified):

- African Health Sciences (International PubMed Indexed Journal – Reviewed 2 articles)
- Indian Journal of Medical Research (National PubMed Indexed Journal – Reviewed 3 articles)
- Journal of Cytology (National PubMed Indexed Journal – Reviewed 5 articles)
- Journal of Post Graduate Medicine (National PubMed Indexed Journal – Reviewed 1 article)
- Neurosciences (International Non PubMed Indexed Journal – Reviewed 1 article)

#### Dr. Rakesh Kumar Gupta:

Reviewed paper for these journals:-

- Indian journal of Surgery
- Indian Journal of Pathology and Microbiology
- Annals of Pathology and Laboratory Medicine
- Medical Journal Armed Forces India
- BMC infectious disease
- Obstetrics & Gynecology Science

Memberships of Neuropathology society of India (Lifetime)

### AWARDS, HONOURS AND SIGNIFICANT EVENTS:-

#### Dr. Amit Kumar Chowhan:

- Chairperson:** In 'Indian Stem Cell Study Group Association 4<sup>th</sup> Biennial International ISCSGCON 2021 & CME on Regenerative Sciences' organized in AIIMS, Raipur on 13<sup>th</sup>-14<sup>th</sup> Feb 2021.
- Chairperson:** In CME on 'TB Elimination: The Clock is Ticking' organized in AIIMS, Raipur on 24<sup>th</sup> March 2021.

#### Dr. Rakesh Kumar Gupta:

- Chairperson** in Indian stem cell study group association 4<sup>th</sup> biennial international ISCSGCON 2021 & CME on regenerative sciences organized by AIIMS, Raipur on 13<sup>th</sup>-14<sup>th</sup> Feb 2021.
- Reviewer appreciation certificate** for outstanding contribution in reviewing articles during the year 2019 from Indian journal of pathology and microbiology, 9<sup>th</sup> Dec 2020.
- First prize in Hindi Debate** competition organized by Hindi section AIIMS, Raipur on 28/09/2020 at AIIMS, Raipur, C.G.
- First prize in Hindi Questionnaire competition** organized by Hindi section AIIMS, Raipur on 18/09/2020 at AIIMS, Raipur, C.G.

**Consolation prize in Hindi spontaneous speech competition** organized by Hindi section AIIMS, Raipur on 15/09/2020 at AIIMS, Raipur, C.G.



## Department of Pharmacology

### Professor and Head

Dr. Suryaprakash Dhaneria

### Additional Professor

Dr. Nitin Rewaram Gaikwad

Dr. Yogendra Narayanrao Keche

### Assistant Professor

Dr. Alok Singh

Dr. Pugazhenthana T.

## HIGHLIGHTS

Dr S P Dhaneria delivered a talk on COVID – 19 illness – Public Awareness on All India Radio, Chhattisgarh in April 2021. Dr Nitin Rewaram Gaikwad was judge for Oral Scientific Paper presentation at ISRPT Webicon 2020 on Evidence Based Medicine organized by TMMC & RC, Moradabad. The Department of Pharmacology organized Online Research

Methodology Course for Post Graduate Students (PG-Junior Resident – July 2019 and January 2020 Session) of our institute on 11.05.2020 to 13.05.2020 and 28.12.2020 to 30.12.2020. The Department of Pharmacology organized a workshop of Good Clinical Practices for Doctors and Para-Medical Staff of various institutes.

## EDUCATION

Undergraduate teaching (MBBS and Nursing) is a regular academic activity of the department and was continued uninterrupted during Covid-19 pandemic. Department introduced innovative teaching methods like making and presenting Poster Presentation, Home Assignment, Small Group Discussion, which facilitate self-directed learning among students.

Three students from first two batches of MD-Pharmacology passed the examination. One candidate has joined DM (Clinical Pharmacology) Course in January 2021 session.

Three students of MBBS Second year and Five students of B. Sc. (Hons) Nursing Second Year secured distinction in Pharmacology in their respective final examinations held during 2020-21.

The passing percentage in MBBS 2nd Professional Examination held in February 2021 and B. Sc. (Hons.) Nursing 2nd Year Final Examination held in October 2020 were 92% and 100%, respectively.

The Passing percentage in B. Sc. - MLT (Batch – 2019) and Pre-Hospital Trauma Technician (Batch – 2019) was 100%.

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

### Dr. Suryaprakash Dhaneria

S. No.	Title	CME/Conference	Date	Organised By
1.	Potential Targets for COVID-19	ISRPT Webicon 2020 on Evidence Based Medicine	10.10.2020	TMMC & RC Moradabad
2.	12 <sup>th</sup> Indian Society for Rational Pharmacotherapeutics (ISRPT) Conference ISRPT-2020	Conference	12.02.2021 & 13.02.2021	Experimental Pharmacology Laboratory(EPL), Department of Pharmacology, PGIMER,Chandigarh,India-160012
3.	TB elimination: The clock is ticking	CME	24.03.2021	Department of Microbiology, AIIMS Raipur

### Dr. Nitin Rewaram Gaikwad

S. No.	Title	CME/Conference	Date	Organised By
1.	Potential Targets for COVID-19	ISRPT Webicon 2020 on Evidence Based Medicine	10.10.2020	TMMC & RC Moradabad
2.	12 <sup>th</sup> Indian Society for Rational Pharmacotherapeutics (ISRPT) Conference ISRPT-2020	Conference	12.02.2021 & 13.02.2021	Experimental Pharmacology Laboratory(EPL), Department of Pharmacology, PGIMER,Chandigarh,India-160012
3.	TB elimination: The clock is ticking	CME	24.03.2021	Department of Microbiology, AIIMS Raipur

### Dr. Yogendra Narayanrao Keche

S. No.	Title	CME/Conference	Date	Organised By
1.	Competency Based Medical Education (Pharmacology)	Online course on Competency Based Medical Education (Pharmacology)	April 2020 to July 2020	MEU India(Reg No.2419)
2.	Online Teaching in Medical Education - An Opportunity or a Distraction	1 <sup>st</sup> National Webinar	13.07.2020	NTTC, JIPMER, Puducherry

S. No.	Title	CME/Conference	Date	Organised By
3.	Academic Leadership & Academic Integrity in Medical Schools	2 <sup>nd</sup> National Webinar	16.07.2020	NTTC, JIPMER, Puducherry
4.	Teaching Learning Methods to Cultivate Skills for Patient Centered Care	3 <sup>rd</sup> National Webinar	22.07.2020	AIMST University, Malaysia&NTTC, JIPMER, Puducherry
5.	Patient Safety Education	5 <sup>th</sup> National Webinar	05.08.2020	NTTC, JIPMER, Puducherry
6.	Potential Targets for COVID-19	ISRPT Webicon 2020 on Evidence Based Medicine	10.10.2020	TMMC & RC Moradabad
7.	Problem Based Learning in Medical Education	14 <sup>th</sup> National Webinar	15.10.2020	St. John's Medical College, Bangalore& NTTC, JIPMER, Puducherry
8.	Role of Digital Literacy and Health Data Literacy in Medical Education	16 <sup>th</sup> National Webinar	05.11.2020	NTTC, JIPMER, Puducherry
9.	2nd Virtual IOPM Conference on the Theme: Enhancing Human Capital Potential and Workplace Productivity	Conference	05.12.2020	The International Institute of Organisational Psychological Medicine, (USA-Australia-UK)
10.	SNMICON, 52 <sup>nd</sup> Annual Conference of Nuclear Medicine, India (virtual)	Conference	11.12.2020 to 13.12.2020	AIIMS Raipur
11.	National Virtual Symposium: Connecting dots between woman and diabetes	Symposium	20.12.2020	Association of Physicians of India, Pune
12.	Good Clinical Practice and Ethical Issues in Research involving Human Subject	Workshop	30.01.2021	AIIMS, Raipur
13.	12th Indian Society for Rational Pharmacotherapeutics (ISRPT) Conference ISRPT-2020	Conference	12.02.2021 & 13.02.2021	Experimental Pharmacology Laboratory(EPL), Department of Pharmacology, PGIMER, Chandigarh, India-160012

**Dr. Pugazhenthan T.**

S. No.	Title	CME/Conference	Date	Organised By
1.	Evidence Based Medicine In Current Clinical Practice	Webinar	13.05.2020	EBSCO
2.	Setting up of andrology laboratory in Indian scenario	National webinar	19.08.2020	AIIMS Nagpur
3.	COVID 19	CME	22.08.2020	Indian Journal of Pharmacology (IJP) & Indian Pharmacological Society (IPS)
4.	Drug Designing on SARS-CoV-2	Virtual Conference	08.01.2021 & 09.01.2021	Medical Pharmacologist Society Society (IPS)
5.	Pharmacogenomics: Basics to advance (2021)	virtual conference	February 2021	Medical Pharmacologist Society Society (IPS)
6.	Materiovigilance: Ensuring Safety of Medical Devices	CME cum e-Workshop	25.03.2021	Department of Pharmacology, AIIMS, Patna In collaboration with Indian Pharmacopoeia Commission (IPC), MoHFW, Gol. Society (IPS)

**LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES****Dr. Suryaprakash Dhaneria**

S. No.	Title	CME/Conference	Date	Organised By
1.	Experimental Studies: Randomized and Nonrandomized control trials	Research Methodology Course for Post Graduate Students (July 2019 and January 2020 Session), PhD, MSc Nursing and MPH Students	12.05.2020	Department of Pharmacology, AIIMS Raipur
2.	Legal and Ethical Issues in studies involving human subjects		14.05.2020	
3.	Ethics in bio-medical research	Online Research Methodology Program for First Semester PGJRs of AIIMS Raipur	09.06.2020	AIIMS Raipur

S. No.	Title	CME/Conference	Date	Organised By
4.	An overview of COVID – 19 illness	Workshop on COVID – 19	19.06.2020	Amity University, Raipur
5.	An overview of COVID – 19 illness	CME on COVID – 19	17.09.2020	Saraswati Mahavidyalaya,
6.	Study Designs (including Clinical trials)	Workshop on Good Clinical Practice and Ethical issues in Research involving Human Subjects	05.10.2020 & 06.10.2020	Rishiraj Dental College, Bhopal (MP)
7.	Ethical & Legal Aspects of human experimentation			
8.	Current guidelines in the management of COVID – 19	ISRPT WebiCon	10.10.2020	TMMC and RC, Muradabad
9.	Study Designs (including Clinical trials)	Workshop on Good Clinical Practice and Ethical issues in Research involving Human Subjects	28.10.2020 and 29.10.2020	Government Dental College, Bhopal (MP)
10.	Ethical & Legal Aspects of human experimentation			
11.	Experimental Studies: Randomized and Nonrandomized control trials	Research Methodology Course for Post Graduate Students (July 2020 Session)	28.12.2020	Department of Pharmacology, AIIMS Raipur
12.	Legal and Ethical Issues in studies involving human subjects		30.12.2020	
13.	Study Designs (including Clinical trials)	Training Workshop for Institute Ethics Committee Members	30.01.2021	Institute Ethics Committee, AIIMS Raipur
14.	Ethical & Legal Aspects of human experimentation			
15.	Tuberculosis – Challenges ahead	ISRPTCon – 2020	12.02.2021	PGIMER, Chandigarh
16.	Highlights of New Drugs and Clinical Trial Rules 2019	4 <sup>th</sup> Biennial International – ISCSGCON 2021 & CME on Regenerative Sciences	13.02.2021	Department of Orthopaedics, AIIMS Raipur

S. No.	Title	CME/Conference	Date	Organised By
17.	Study Designs (including Clinical trials)	Workshop on Good Clinical Practice and Ethical issues in Research involving Human Subjects	14.03.2021	VY Hospital, Raipur
18.	Ethical & Legal Aspects of human experimentation			
19.	Newer Antitubercular drugs	CME on TB elimination: The clock is ticking	24.03.2021	Department of Microbiology, AIIMS Raipur
20.	Drugs tried in the management of COVID - 19	CME on COVID - 19	26.03.2021	National Academy of Medical Sciences, organized at Index Medical College, Indore

#### Dr. N. R. Gaikwad

S. No.	Title	CME/Conference	Date	Organised By
1.	Analytical Studies: Case Control, Cohort, Cross Sectional Studies	Research Methodology Course for Post Graduate Students (July 2019 and January 2020 Session), PhD, MSc Nursing and MPH Students	11.05.2020	Department of Pharmacology, AIIMS, Raipur
2.	Elements of Research Proposals		12.05.2020	
3.	Effective Literature Search		13.05.2020	
4.	How to design Informed Consent Document (ICD)		14.05.2020	
5.	Literature search	Online Research Methodology Program for First Semester PGJRs of AIIMS Raipur	02.06.2020	Research Cell, AIIMS, Raipur
6.	Analytical study designs		03.06.2020	
7.	Informed consent form		08.06.2020	
8.	Group Dynamics & Team Building Group Activity	Online Workshop on Medical Education Technology	22.06.2020	Medical Education Unit, AIIMS, Raipur
9.	Question Paper Setting		03.07.2020	

S. No.	Title	CME/Conference	Date	Organised By
10.	Ethics Committee – Roles and Responsibilities	Workshop on Good Clinical Practice and Ethical issues in Research involving Human Subjects	05.10.2020 and 06.10.2020	Rishiraj Dental College, Bhopal (MP)
11.	Informed Consent Document			
12.	Ethics Committee – Roles and Responsibilities	Workshop on Good Clinical Practice and Ethical issues in Research involving Human Subjects	28.10.2020 and 29.10.2020	Government Dental College, Bhopal (MP)
13.	Informed Consent Document			
14.	Analytical Studies: CaseControl, Cohort, CrossSectional Studies	Research Methodology Course for Post Graduate Students (July 2020 Session)	28.12.2020	Department of Pharmacology, AIIMS, Raipur
15.	Elements of Research Proposals		29.12.2020	
16.	Effective Literature Search		29.12.2020	
17.	How to design Informed Consent Document (ICD)		30.12.2020	
18.	Literature search	Online Research Methodology Program for First Semester PGJRs of AIIMS Raipur	02.01.2021	Research Cell, AIIMS, Raipur
19.	Analytical study designs		03.01.2021	
20.	Informed consent form		08.01.2021	
21.	Ethics Committee – Roles and Responsibilities	Training Workshop for Institute Ethics Committee Members	30.01.2021	Institute Ethics Committee, AIIMS, Raipur
22.	Informed Consent Document			
23.	Ethics Committee – Roles and Responsibilities	Workshop on Good Clinical Practice and Ethical issues in Research involving Human Subjects	14.03.2021	VY Hospital, Raipur
24.	Informed Consent Document			

### Dr. Yogendra Narayanrao Keche

S. No.	Title	CME/Conference	Date	Organised By
1.	Descriptive Studies and Case Record Form	CME on Research Methodology	11.05.2020 to	AIIMS, Raipur
2.	Case Record Form	Workshop on “Good Clinical Practice and Ethical Issues in Research Involving Human Subjects”	05.10.2020 & 06.10.2020	Rishraj College of Dental Sciences and Research Centre, Bhopal (LNCTR group)
3.	Case Record Form	Workshop on “Good Clinical Practice and Ethical Issues in Research Involving Human Subjects”	28.10.2020 & 29.10.2020	Government Dental College Raipur
4.	Descriptive Studies and Case Record Form	CME on Research Methodology	28.12.2020 to 30.12.2020	AIIMS, Raipur
5.	Case Record form	Workshop on “Good Clinical Practice and Ethical Issues in Research Involving Human Subjects”	30.01.2021 & 01.02.2021	IEC-AIIMS, Raipur

### Dr. Pugazhenthana T.

S. No.	Title	CME/Conference	Date	Organised By
1.	Essential Information on Educated Community on COVID Prophylaxis on High Risk Group	Webinar Conference	09.05.2020	Chennai Institute of Technology

### ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Pugazhenthana Thangaraju (Oral presentation)	Hurdles And Solution During COVID Trials	FERCICON 2020	28.11. 2020	PGIMER, Chandigarh and FERCICON
2.	Dr. Madhusudan Singh, dr. Nitin Gaikwad, Dr. Yogendra Keche, Dr. Atul Jindal, Dr. S.P. Dhaneria	Active Surveillance of Antimicrobial use in Pediatric Intensive Care Unit (Picu) of a Tertiary Care Teaching Hospital in Raipur	12 <sup>th</sup> Indian Society of Rational Pharmacotherapeutics 2020	12.02.2021 & 13.02.2021	Experimental Pharmacology Laboratory, PGIMER, Chandigarh



S. No.	Authors	Title	Conference	Date	Organised By
3.	Dr. G. Meenalotchini Dr. Yogendra Keche, Dr. Nitin Gaikwad, Dr. S.P. Dhaneria	Antimicrobials Used For Surgical Prophylaxis In A Tertiary Care Hospital In Raipur District- A Retrospective Analysis	12 <sup>th</sup> Indian Society for Rational Pharmacotherapeutics (ISRPT) Conference	12.02.2021 & 13.02.2021	Experimental Pharmacology Laboratory, PGIMER, Chandigarh

## RESEARCH Funded Projects Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year- End year	Total funds sanctioned (Rs.)
1.	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	Pugazhenthan Thangaraju	Pharmazz	2	2021-2023	17,00,000
2.	Effect of CYP2C19 and P2Y12 genetic polymorphisms on platelet aggregation in patients on treatment with clopidogrel in Chhattisgarh Population	Pugazhenthan Thangaraju	CGCOST	2	2020-2022	5,00,000

## Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Usefulness of STOPP /START Criteria and Beers Criteria for prescribing in geriatric patient in tertiary health care center, Raipur, Central India	Dr Yogendra Narayanrao Keche	AIIMS Raipur	1.5 year	2020 - 2021	274600/-
2.	Allele and genotype frequency of CYP2C19 in central Indian population (Chhattisgarh)	Pugazhenthana Thangaraju	AIIMS RAIPUR	2	14.08.2019 - 15.02.2021	4,00,000

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

### Dr. Alok Singh

S. No.	Projects
1.	A 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.

### Dr. Pugazhenthana T.

S. No.	Projects
1.	Hydroxychloroquine + Azithromycin study In COVID 19
2.	Randomized Control Trials (RCTs) in Stigmatized Disease “Leprosy” – A Compliance CONSORT CHECKLIST

## Completed

### Dr. Yogendra Narayanrao Keche

S. No.	Projects
1.	Evaluation of the Prescribed Drugs in Elderly for possible Drug Interactions with Investigational Drugs for COVID-19 Treatment

## Dr. Alok Singh

S. No.	Projects
1.	Assessment of Knowledge, Attitude and Practice for the Fixed Dose Combinations among the Treating Physicians in a Tertiary Care Hospital.
2.	Assessment of Awareness, Knowledge and Attitude of Faculty Members towards Telemedicine in Tertiary Care Centers of Central India (Chhattisgarh).

## Dr. Pugazhenthan T.

S. No.	Projects
1.	Current Status of Clinical Research in COVID-19 using Artificial Intelligence Techniques: A Registry-based Audit
2.	Open Survey of Pediatrics Medication Redosing Practices after Vomiting in Tertiary Care Hospital in India
3.	Molecular Docking of AYUSH and Modern Medication in COVID
4.	HCQ in Indian Population Critical Review

## PUBLICATIONS

1. Bharathi KV, **Keche YN**, Nayak PK, **Gaikwad NR**, **Dhaneria SP**. Prescription Analysis and Risk Category Assessment of Drugs Prescribed during Pregnancy in a Tertiary Care Center as per USFDA Classification. *Journal of US-China Medical Science* June 2020;17: 102-107 doi:10.17265/1548-6648/2020.03.006
2. **Keche Y**, **Gaikwad N**, **Dhaneria S**, Joshi A. Evaluation of the prescribed drugs to elderly in a tertiary healthcare center for possible drug interactions with investigational drugs for COVID-19 treatment. *J Res Pharm Pract* 2020;9:212-217. (Published on 11th January 2021)
3. Sahoo AK, Gupta D, **Dhaneria S**, **Thangaraju P**, **Singh A**. Retrospective analysis of drug prescription statistics in a tertiary care center in India: Recommendations for promoting prudent utilization of drugs. *J Res Pharm Pract*. 2020;9:146-50
4. Gupta D, Sahoo AK, **Singh A**. Ivermectin: potential candidate for the treatment of Covid 19. [Braz J Infect Dis](#). 2020;24(4): 369-371.
5. **Singh, A.**, Gupta, D., Sahoo, A.K. Acute Migraine: Can the New Drugs Clinically Outpace?. *SN Compr. Clin. Med.* 2020;2: 1132-1138.
6. Gupta D, Sahoo AK, **Singh A**. Can a New Nitroimidazole Knock-out the Unconquered Tuberculosis? *Archives of Medicine & Health Sciences*. 2020;8:79-82.
7. **Singh A**. COVID 19: Are we fighting with the monster? *J Family Med Prim Care* 2020;9:2134-5.
8. Sahoo AK, Gupta D, **Singh A**. Istradefylline: A Novel Drug for "Off" Episodes in Parkinson's Disease. *Drugs Ther Perspect.* 2020;36: 208-212.
9. Singh S, Singh S, Thangaswamy A, **Thangaraju P**, Varthya SB. Efficacy and safety of Risankizumab in moderate to severe psoriasis: A systematic review and meta-analysis. *Dermatol Ther.* 2021 Jan; 34(1):e14487.
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11. **Thangaraju P**, Venkatesan S. Medical residents: Research and publication priorities/confusions. *J Family Med Prim Care.* 2020 May 31;9(5):2583-2584.
12. **Thangaraju P**, Venkatesan N, Siddarth S, Venkatesan S. Leprosy - the current target in national programmes. *J Family Med Prim Care.* 2020 Oct 30; 9(10):5409-5410.
13. **Thangaraju P**, Varthya SB, Venkatesan S.

- Target/therapies for chronic recurrent erythema nodosum leprosum. *Indian J Pharmacol.* 2020 May-Jun; 52(3):222-226.
14. **Thangaraju P**, Gurunthalingam MP, Venkatesan S, Thangaraju E. COVID-19: Wait for a novel drug or act with the age old drug - Do we have a choice? *J Infect Public Health.* 2020 Jun; 13(6):899-900.
  15. **Thangaraju P**, Varthya SB, Guruthalingam MP, Venkatesan S. Cephalosporin's induced hepatic enzyme derangement - An educational report. *J Family Med Prim Care.* 2020 Apr 30;9(4):2143-2145.
  16. **Thangaraju P**, Jindal A. Prerequisite of doing clinical trial with drugs in COVID-19 patients: Situational experience. *Perspect Clin Res.* 2020 Jul-Sep;11(3):135.
  17. **Thangaraju P**, Venkatesan N, Thangaraju E, Venkatesan S. Are We Jumping the Gun with Itolizumab in India? A Situational Analysis from the Pre-COVID Era. *SN Compr Clin Med.* 2020 Sep 26:1-6.
  18. **Thangaraju P**, Venkatesan N, Venkatesan S, Gurunthalingam MP, Thangaraju E. Can HCO Be Considered a "Safe Weapon" for COVID-19 in the Indian Population? *SN Compr Clin Med.* 2020 Jul 10:1-7.
  19. **Thangaraju P**, Gurunthalingam MP, Varthya S, Venkatesan S, Thangaraju E. COVID-19: Older drugs for a novel disease-Chloroquine, hydroxychloroquine, and possible Pentoxifylline-set to start the second innings? *J Family Med Prim Care.* 2020 May 31;9(5):2172-2175.
  20. Venkatakrishnan Y, **Thangaraju P**, Jeganathan S, Sankaran SK, Kannan R. Nutritional status and morbidity profile of children with leprosy contact in a rural community. *Trop Doct.* 2020 Oct;50(4):311-317.
  21. **Thangaraju P**, Venkatesan S, Gurunthalingam M, Babu S, T T. Rationale use of Thalidomide in erythema nodosum leprosum - A non-systematic critical analysis of published case reports. *Rev Soc Bras Med Trop.* 2020 Sep 11;53:e20190454.
  22. Varthya SB, Sarma P, Bhatia A, Shekhar N, Prajapat M, Kaur H, **Thangaraju P et al.** Efficacy of green tea, its polyphenols and nanoformulation in experimental colitis and the role of non-canonical and canonical nuclear factor kappa beta (NF-kB) pathway: a preclinical in-vivo and in-silico exploratory study. *J Biomol Struct Dyn.* 2020 Jul 16:1-13.
  23. **Thangaraju P**, Varthya SB, Venkatesan S. Named terminologies of patient-centered - A focus respective to stigmatized disease. *J Family Med Prim Care.* 2020 Apr 30;9(4):2146-2147.
  24. **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 study. *Infect Disord Drug Targets.* 2021 Jan 19.
  25. Sudha TY S, VenkataNaga S, **Thangaraju P**. Nightmares and Mirtazapine—Time to be vigilant. *Indian Journal of Psychological Medicine.* July 2020.
  26. **Thangaraju P**, Varthya SB, Venkatesan S, Tamilselvan T, Singh S. Efficacy and safety of sufentanil sublingual tablet system in postoperative pain management: a systematic review and meta-analysis. *BMJ Support Palliat Care.* 2021 Mar 2:bmjpspcare-2020-002693.
  27. **Pugazhenthan Thangaraju**, Atul Jindal, Sajitha Venkatesan, Meenalotchini P. Gurunthalingam, Nanditha Venkatesan and Eswaran Thangaraju, "Does Metformin Satisfy as an Option for Host-Directed Therapy in COVID-19?", *Anti-Infective Agents* 2021; 19(2)
  28. **Thangaraju P**, Varthya SB, Venkatesan S. Fixed-dose combinations: An essential for rational preparation. *Indian J Pharmacol.* 2021 Mar-Apr;53(2):170-172.
  29. Mahalmani V, **Pugazhenthan T**, Mittal N, Varthya SB, Medhi B. Regulatory approval for COVID-19 across the globe. *Indian J Pharmacol.* 2020 Nov-Dec;52(6):457-466.
  30. **Thangaraju P**, Balasundaram, M, Gurunthalingam, M, Venkatesan, S, Thangaraju, E. "Reuse or use wisely N95 mask in COVID 19 Pandemic". *Cukurova Medical Journal* 45 (2020): 1253-1256
  31. **Thangaraju P**, Arulmani M, Venkatesan S, Gurunthalingam MP, Thangaraju E. COVID-19 and leprosy-hurdles and possible solutions. *Asian Pac J Trop Med* 2020; 13:472-3

## Chapter in book

S. No.	Author(s)	Chapter	Name of the Editor	Book	Edition	City of Publication	Publisher	Year of Publication
1.	A.R. Vijayakumar, T. Pugazhenthan, M. Sathish Babu V. Sajitha	Section I Toxicological Effects of Implants Ophthalmology and Otorhinolaryngology	Prakash Srinivasan Timiri Shanmugam Logesh Chokkalingam Pramila Bakthavachalam	Toxicological Aspects of Medical Device Implants	1	USA	elsevier	2020

## 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 2020 to March 2021): 238 (114 ADRs and 124 MAH Cases).
- A total of 44 ADRs related to the investigational drugs for Covid-19 were reported.
- A total of 57 AEFI related to Covid-19 vaccines were reported.
- Department of Pharmacology all Teaching and Non-teaching staff has been performed his and her duty against COVID-19 in dedicated wards, Labs and Control Room.
- Department of Pharmacology is actively involved in preparation of Antibiotic Policy document for the institute.

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Dr. Pugazhenthan T.

- Young Faculty Award in 8<sup>th</sup> Academic Brilliance Awards-8<sup>th</sup> March 2020, Hyderabad
- Editorial board- International journal of clinical Practice
- Expert member, Technology Development Board, Department of science and Technology, Government of India.
- Panelist chairperson (Session 6) in the 4th Biennial International Stem cell Conference and CME on Regenerative Medicine on 13 and 14 February 2021 at AIIMS Raipur.
- Judge in International Webinar on "Pharmacology and Toxicology" & 40th Annual Conference of Society of Toxicology (STOX), India STOX-2021 on 29th-30th January, 2021 Organized by Postgraduate Institute of Medical Education & Research, Chandigarh & Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum

## VISITING SCIENTIST

- Dr. S. K. Srivastava, Professor and Head, Department of Pharmacology, Medical College, Surat, Gujarat.
- Dr. V. M. Motghare, Professor and Head, Department of Pharmacology, Government Medical College, Nagpur, Maharashtra.

## Department of Physical Medicine and Rehabilitation

### Assistant Professor & In-charge

Dr. Jaydeep Nandi

### Assistant Professor

Dr. Raunak Kumar

### HIGHLIGHTS

On 3rd December 2020, the department organized a virtual CME on auspicious occasion of International day of Persons with Disabilities (IDPWD). Besides talks about significance of IDPWD, the CME was enriched by the lecture of Prof (Dr.) R K Srivastava, Ex-DGHS (GOI), Ex-President IAPMR and Ex-Chairman BOG/ MCI who elaborated about the impact of National Medical Commission (NMC) on UG teaching in AIIMS like institutes.

On the same event, Director Prof. (Dr.) Nitin M.

Nagarkar released "Illustrative Handbook on Post Covid- 19 Pulmonary Rehabilitation" prepared and compiled by Dr. Jaydeep Nandi, Incharge, Department of PMR, AIIMS Raipur.

The inauguration of the Prosthesis and Orthosis Workshop was done by Prof. (Dr.) Nitin M. Nagarkar on 9th March 2021 at First Floor, PMR Building. Total five patients were provided with free appliances on that day and the service was initiated in AIIMS, Raipur.

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

S. No.	Title	CME/Conference	Date	Organised By
1.	International Day of Persons With Disabilities (IDPWD)	Virtual CME on the occasion of International day of Persons	3.12.2020	Department of Physical Medicine and Rehabilitation, AIIMS, Raipur

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

#### Dr. Jaydeep Nandi

S. No.	Title	CME/Conference	Date	Organised By
1.	Ophthalmoscopy as an additional skill set in Neurological, Geriatric and Rheumatological Rehabilitation	IAPMR Midterm conference	09.11.2020	AIIMS, Patna
2.	Significance of International day of Persons with Disabilities (IDPWD) and Disability Rights Movement in India	Virtual CME on the occasion of International day of Persons with Disabilities (IDPWD)	03.12.2020	Dept of PMR, AIIMS Raipur

## RESEARCH

### Non-Funded/Funded Projects

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

S. No.	Projects
1.	Disability following COVID – 19: a cross sectional study.

### Completed

S. No.	Projects
1.	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.

### Collaborative Projects

#### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Nutritional status of children with cerebral palsy at a tertiary care hospital	Dept. of Pediatrics

## PATIENT CARE

S. No.	Department of PMR	TOTAL
1.	Total PMR census	5351
2.	New PMR patients	1019
3.	PMR Referred patients	4332
4.	IPD admissions	10
5.	Special clinics:	205
6.	Special clinics:	6
7.	Minor USG guided interventions	174
8.	NCV for PMR follow up patients	57
9.	Total number of PO Workshop services beneficiaries (started	7
10.	Total Occupational Therapy Service Sessions (started on	324
11.	Total Physical Agent modalities Sessions	Total= 1282

## Department Of Physiology

### Professor & Head

Dr. Ramanjan Sinha

### Additional Professors

Dr. Meenakshi Sinha

Dr. Avinash S. Ingle

### Associate Professors

Dr. Ekta Khandelwal

Dr. Jayshri R. Ghatge

### Assistant Professors

Dr. Arunita T. Jagzape (From 16.10.2020)

Dr. Dipali K. Chatur (From 28.10.2020)

## HIGHLIGHTS

The department of physiology conducted teaching-learning activities, research and contributed towards patient care over the last year. Teaching of MBBS and MD students were held online due to prevailing covid pandemic using FCC platform. Evaluations were also conducted over these platforms using innovative methods. Two MD students passed out of the department with superior grades. Also, faculty delivered lectures in Medical Education towards development of knowledge and skills of institute faculty. In research, faculty presented in several International and National Seminars and conferences, imparting training in workshops. Also, they have been conducting or completed twelve research projects, eight departmental projects including MD thesis and nine collaborative projects with approximately seven different specialties from within and outside AIIMS, Raipur which included aspects of Sickle Cell Disease, chronomedicine, cancer & diabetes research and medical education,

including chapter in book. In addition, the department contributed in terms of Research & patient care during the Covid pandemic along with several publications. In this context, our extensive research on lockdown related effects on Indian population in relation to sleep and behavior yielded international publications with quote in several newspapers. Its effect on medical students was also published and lectures delivered on mental health issues & immunity concerns during covid. Besides, faculty were also involved in sessions to inculcate general awareness on issues such as yoga, mental health of women, effect of social media on medical students, and posters on covid safety concerns. In addition, the faculty, senior and junior residents of the department were extensively involved in Covid screening duties at the institute, cumulatively amounting to 22 postings for upto 200 days while continuing with their teaching and research activities in the department.



## EDUCATION

### Innovative Educational Activities:

- Laboratory based practical exercises were conducted in online format to facilitate remote learning through observation as series of brief video clippings with explanations. Assessment of both objective and descriptive theoretical knowledge was done online and their answers were evaluated on time.
- MBBS Students were exposed to newer techniques such as USG through which cardiac cycle was demonstrated as a practical.
- Post graduate students were exposed to structured high-end practicals in speciality laboratories i.e. EEG-ERP, Cardio-pulmonary, Autonomic-vascular and EMG-NCV through week long exercises and discussions.
- Novel methods of spot assessment was used using videos and on monitors, while maintaining social distancing as per corona precautions. Evolving assessment methods continued to be used over the year, such as OSPE/OSCE and structured viva in aforesaid modified format.
- Modern assessment tools continued to be used in theory papers i.e. Single and Multiple response, Reason-Assertion and Problem Based MCQs, Structured Long Answer Questions and Short Answer Questions.

### Short Term Training / Resource Faculty:

- Sensitisation lectures on various aspects of Medical Education were delivered in national fora and to AIIMS Raipur faculty by Physiology faculties as resource, under Medical Education Unit, AIIMS, Raipur.
- Training delivered in International workshops & webinars regarding aspects of Autonomic function and development of animal physiology facilities.

### CMEs/Workshops/Symposia/National and International Conferences

S. No.	Title	CME/Conference	Date	Organised By
1.	International YOGA day	YOGA for ALL	21.06.2020	AIIMS Raipur

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

#### Dr. Ramanjan Sinha

S. No.	Title	CME/Conference	Date	Organised By
1.	Adult Learning Principles	National Online Certificate course on Medical Education Technology	June 22-July 20, 2020	Medical Education Unit, AIIMS, Raipur
2.	Introduction to Research Methodologies	Post Graduate Research Orientation Program	June 1-9, 2020	Institute Research Cell, AIIMS, Raipur

**Dr. Meenakshi Sinha**

S. No.	Title	CME/Conference	Date	Organised By
1.	Psychological Health and Women's Wellness	National Webinar on Physical and Psychological Wellness of Women at Home & Workplace	25.11.2020	National Commission for Women, Government of India (at Columbia Institute of Pharmacy, Raipur)
2.	How to establish an Animal Physiology Laboratory	International WEBINAR series on Research & Publication in India	22.05.2020	Association of Physiologists of India
3.	How to combat depression	Happiness programme for Post Graduate students	20.8.2020	AIIMS, Raipur
4.	Teaching-learning Media (including e-learning)	National Online Certificate course on Medical Education Technology	13.09.2019 (June 22-July 20, 2020)	Medical Education Unit, AIIMS, Raipur
5.	Giving Effective Feedback	National Online Certificate course on Medical Education Technology	17.09.2019 (June 22-July 20, 2020)	Medical Education Unit, AIIMS, Raipur
6.	Rhythmicity in Neurocognition : a vital aspect of mental health	6 <sup>th</sup> World Congress of Chronomedicine	26.12.2020	Indian Society for Chronomedicine at Khajuraho, MP
7.	Psychological impact of COVID-19 on young women: a solution based approach	Webinar under Equity action plan, TEQIP-III	06.02.2021	Rajiv Gandhi Prodyogike Vishwavidyalaya, Bhopal, M.P.

**Dr. Avinash S. Ingle**

S. No.	Title	CME/Conference	Date	Organised By
1.	Viva Voce	Online National level certificate course on MET	08.07.20	Medical Education Unit, AIIMS Raipur
2.	Early clinical exposure	Online National level certificate course on MET	14.07.20	Medical Education Unit, AIIMS Raipur
3.	Health tips to boost immunity during Covid-19	GyanVigyan webinar shrunkhala	24.10.20	Chhattisgarh Vigyan Sabha

**Dr. Ekta Khandelwal**

S. No.	Title	CME/Conference	Date	Organised By
1.	Sickle Cell Disease: Role of Hematopoietic Stem Cell Transplantation	4th Biennial International ISCSGCON 2021 & CME on Regenerative Sciences	13th -14th Feb, 2021	Department of Nuclear Medicine, AIIMS Raipur

S. No.	Title	CME/Conference	Date	Organised By
2.	Cardiovascular Autonomic Response in Yoga Practice	International Webinar on “Yoga: the holistic approach to Physiological and Psychological Homoeostasis”	17.10.2020	Department of Physiology, PaschimMedinipur G.G.D.C, Mohanpur
3.	Autonomic Scoring System	SAARC Workshop on Techniques in Physiological Sciences (TIPS) 2020: Application to Translations	1-3 December, 2020	Department of Physiology, AIIMS New Delhi

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Khandelwal E, Rathore M	Differential Modulation of Cardiac Autonomic Tone during Different Yogic Exercise	6 <sup>th</sup> Annual & 1 <sup>st</sup> Virtual International Conference of Basic & Applied Physiology	5 <sup>th</sup> -7 <sup>th</sup> Oct 2020	Department of Physiology, Sikkim Manipal Institute of Medical Science, Gangtok, Sikkim
2.	Khandelwal E, Kumar M	Assessment of Endothelial Dysfunction in Sickle Cell Disease - An insight into Vaso-Occlusive Crisis.	31 <sup>st</sup> International Symposium on the Autonomic Nervous System	6-7 Nov 2020	American Autonomic Society
3.	Khandelwal E	Response to Cold Stress in Diabetes: A Pulse Volume Study	31 <sup>st</sup> International Symposium on the Autonomic Nervous System	6-7 Nov 2020	American Autonomic Society
4.	Pande B, Sinha M, Sinha R.	Sleep-wake pattern, mid sleep time and social jetlag in indian population during COVID-19 lockdown and their association with the psychosocial behavior	6 <sup>th</sup> World Congress of Chronomedicine	24 December, 2020	Indian Society for Chronomedicine, Khajuraho, MP
5.	Ghate J, Sinha M, Siddiqui S, Mohapatra E	Peripheral neuropathy in pre-diabetes: a case controlled study	Virtual Biennial SAAP VII & PSI Conference	25 March, 2021	HIMSR, New Delhi

S. No.	Authors	Title	Conference	Date	Organised By
6.	Pande B, Sinha M, Sinha R.	Assessment of cognitive status by short-interval time estimation & reaction time and their association with sleep-wake variables in chronic obstructive pulmonary disorder (COPD).	Biennial SAAP VII & PSI Conference	25 March, 2021.	HIMSR, New Delhi.

## 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	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	2 years	2020-2022	18,92,000/-
2.	Correlation of circadian rhythmicity of Rest-Activity with Heart Rate Variability in Bronchial Asthma & its clinical Implication	Dr. Meenakshi Sinha	AIIMS, Raipur	1yr	February 2021- January 2022	4,99,500/-
3.	Correlation study of Endothelial Function & Biomarkers in Patients of Sickle Cell Anemia at Chhattisgarh	Dr. Ekta Khandelwal	AIIMS Raipur	1 year	2020	5 lacs

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
4.	Evaluation of Chemotherapy induced Cardiac Autonomic Dysfunctions in Cancer Patients of Chhattisgarh.	Dr. Ekta Khandelwal	CGCOST	2 years	2021	5 Lacs
5.	A study on analysis of effectiveness of assessment tools in stratifying performance during formative assessment of first year MBBS students in Physiology (Intramural)	Dr. Ramanjan Sinha	AIIMS, Raipur	2 years	2019-2021	Non-funded

### Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Effect of lockdown due to COVID-19 pandemic on sleep-wake pattern and personal wellbeing due to COVID-19 pandemic : an online survey	Dr. Meenakshi Sinha	AIIMS, Raipur	1yr	2020-2021	Non-funded
2.	Circadian Rhythmicity of Neuro-Cognitive Profile of Individuals with Morning and Evening Chronotypes	Guide: Dr. Meenakshi Sinha Student : Ms. Nanditha Venkat	ICMR STS	1 year	2019-2020	20,000/-
3.	Assessment of percentage body fat by using ultrasound techniques in adult Indian males	Dr Avinash S. Ingle	AIIMS Raipur	2 Yrs	2018-2020	Non-Funded
4.	Cardiovascular Autonomic Response to Graded Activation of Metaboreflex	Dr Ekta Khandelwal	AIIMS, Raipur	1 year	2018	Non funded

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
5.	Pattern & Profile of Endothelial Dysfunction in Patients of Sickle Cell Anemia	Guide : DrEktaKhandelwal Student: Mr. Sourabh	ICMR STS	6 Months	2019	10,000
6.	Association of Serum Vitamin-D Status with Somatic & Autonomic Neuropathy in Prediabetics	Dr. Jayshri R. Ghate	AIIMS, Raipur	1yr	December 2018- June 2020	4,97,000/-
7.	Effects of social media on mind-body and social distancing among medical students of AIIMS Raipur during COVID-19 lockdown: An online mixed	Dr. ArunitaJagzape	AIIMS, Raipur	1 yr	2020-2021	Non-funded
8.	Incorporating strategy of 3D's (Distribute, Discuss And Develop) to enhance small group discussion experiences	Dr. ArunitaJagzape	AIIMS, Raipur	1 yr	2020-2021	Non-funded

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

S. No.	Projects
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.	Cardiac Autonomic Neuropathy in Newly Diagnosed Diabetes Mellitus Patient
4.	Comparative assessment of Facial nerve function in transmassetric anterior parotid approach and transparotid approach for open reduction and internal fixation of mandibular condylar fractures-A Randomized control trial.
5.	Effect of chemotherapy on autonomic functions in patients of breast cancer.

## Completed

S. No.	Projects
1.	Neurocognitive Correlates of Polycystic Ovarian Syndrome
2.	Alteration in Neural and Cognitive Status in Asthmatic patients
3.	Influence of Body Composition Parameters on Exercise Performance in Obese Adult Males; A Cross Sectional Study

## 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 Psychiatry, AIIMS, 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 and School of Life Sciences, PRSU, Raipur
3.	Evaluation of Chemotherapy induced Cardiac Autonomic Dysfunctions in Cancer Patients of Chhattisgarh.	Pt JNM Medical College, Raipur

## Completed

S. No.	Project	Collaborating Department/Institution
1.	Neurocognitive Correlates of Polycystic Ovarian Syndrome	Department of Obs&Gynae and Department of Psychiatry, AIIMS Raipur
2.	Alteration in Neural and Cognitive Status in Asthmatic patients	Department of Pulmonary Medicine and Department of Psychiatry, AIIMS Raipur
3.	Association of Serum Vitamin D Status with Somatic and Autonomic Neuropathy in Prediabetics	Department of Internal Medicine & Department of Biochemistry, AIIMS Raipur
4.	Assessment of percentage body fat by using ultrasound techniques in adult Indian males	Cardio-thoracic and vascular Surgery, AIIMS, Raipur
5.	Effect of metabolic components of muscle reflex on the recovery of the hemodynamic parameters after the cessation of static exercises	College of Physical Education, PRSU, Raipur
6.	Short term Heart rate variability in healthy Neonates	Pt JNM Medical College, Raipur

## List of edited books and monographs.

### Book

S. No.	Author (s) of book	Chapter Title	Name of the Book	Edition	City of Publication	Publisher	Year of Publication	First page-Last page
1.	Dr. Tripti Srivastav Waghmare Dr. Alka Rawekar Dr. Arunita Jagzape Dr. Lalitbushan Waghmare	Full book	OSCE & OSPE In Physiology: A Competency Assessment Tool	1 <sup>st</sup>	New Delhi	CBS Publishers and distributors Pvt Ltd.	Jan 2021	01-118

## PUBLICATIONS

1. Sinha M, Pande B, Sinha R. Impact of COVID-19 Lockdown on Sleep-Wake Schedule and Associated Lifestyle Related Behavior: A National Survey. *J Pub Health Res* 2020; 9 (1826): 239-245.
2. Sinha M, Sinha R, Ghate J, Sarnaik G. Impact of Altered Breathing Patterns on Interaction of EEG and Heart Rate Variability. *Annals of Neuroscience* 2020; 27(2) 67-74.
3. Sinha M, Pande B, Sinha R. Association of mid sleep time and social jetlag with psychosocial behaviour of Indian population during COVID-19 lockdown. *J Pub Health Res* 2020; 9(1870): 476-83.
4. Narra LK, Ghate J, Sinha M, Sinha R. Assessment of visual and auditory evoked potentials in young obese males. *Medical Journal, Armed Forces India*. December 2020. doi:/10.1016/j.mjafi.2020.08.017.
5. Kumar M, Shrivastava P, Sinha M, Mishra GJ, Singh R. Psychological factors as predictors of hyperglycemia in type 2 diabetes mellitus. *ShodhSarita(UGC Care journal)* 2020; 7(28): 156-161.
6. Venkat N, Sinha M, Sinha R, Ghate J, Pande B. Neuro-Cognitive Profile of Morning and Evening Chronotypes at Different Times of Day. *Annals of Neuroscience*. March 2021. doi:10.1177/0972753121990280.
7. 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. *Advances in Skin & Wound Care journal* (Accepted for publication on 09/10/2020).
8. Shweta Parwe, Avinash Ingle, Milind Nisargandha, Healthcare worker's novel coronavirus (NCOVID 19), life-threatening situation during the pandemic. *International Journal of Research in Pharmaceutical Sciences*. November 2020, 11(1):1222-1225.
9. E Khandelwal, S Tripathi, P Wasnik. Endothelial Dysfunction Profile in Patients of Sickle Cell Anemia. *Int J Biol Med Res*.2020; 11(4):7132-7134
10. M Rathore, Khandelwal E. Comparative immediate effect of different yoga asana on cardiac autonomic rhythm in healthy young volunteers. *IJCAP*.2020;8(1):1-5
11. 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
12. Gupta A, Jagzape A, Kumar M. Social media effects among freshman medical students during COVID-19 lock-down: An online mixed research. *J Edu Health Promot* 2021;10: 55.



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Title of copyright	Authors	Number
Spreading Awareness through "SHIELD" Yourself from COVID-19' Poster	Dr. Arunita Jagzape Dr. Meenakshi Sinha Dr. Ramanjan Sinha	L-102744/2021
Questionnaire: Effects of Social Media on Mind Body and Social Interactions among Medical Students	Dr. Ankit Gupta Dr. Arunita Jagzape	Registration no: L-93983/2020

## Abstracts

- Pande B, Sinha M, Sinha R. Sleep-wake pattern, mid sleep time and social jetlag in Indian population during COVID-19 lockdown and their association with the psychosocial behavior. Proceedings of 6<sup>th</sup> World Congress of Chronomedicine, Indian Society for Chronomedicine at Khajuraho, MP. December 24-26, 2020.
- Pande B, Sinha M, Behera A, Sinha R. Assessment of cognitive status by short-interval time estimation & reaction time and their association with sleep-wake variables in chronic obstructive pulmonary disorder (COPD). Biennial SAAP VII & PSI Conference, organized by HIMSR, New Delhi. March 24-25, 2021.
- Ghate J, Sinha M, Siddiqui S, Mohapatra E. Peripheral neuropathy in pre-diabetes: a case controlled study. Biennial SAAP VII & PSI Conference, organized by HIMSR, New Delhi. March 24-25, 2021

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

### Dr. R. Sinha :

- Reviewer for Journal of Postgraduate Medicine and Indian Journal of Physiologists and Pharmacologists.

### Dr. M. Sinha:

- Selected as member of Local Research Advisory Committee for the development of Model Rural Health Research Unit ICMR-NIRTH, MoHFW, Govt. of India
- Member of Board of Studies (Physiology) as subject expert for framing and implementation of PG curriculum, AIIMS Rishikesh.
- Reviewer for (i) Medical Journal of Armed forces India, (ii) Biological Rhythm Research, (iii) Asian Journal of Medical Sciences, (iv) Respiratory Physiology & Neurobiology
- Dr. B. Pande (PDF, under the mentorship of Dr. M. Sinha) received Prof. R. K. Singh Memorial award at 6<sup>th</sup> World Congress of Chronomedicine, 2020 for significant contribution in the field of chronomedicine.

### Dr Jayshri R. Ghate

- Reviewer for Medical Journal of Armed forces India

### Dr. Arunita Jagzape :

- Reviewer for: i. BMC Medical Education , ii. Journal of Clinical and Diagnostic Research

## Department of Psychiatry

### Additional Professor & Head

Dr. Lokesh Kumar Singh

### Assistant Professors

Dr. Sucharita Mandal (Till 31.10.2020)

Dr. Sai Krishna Tikka (Till 10.03.2021)

Dr. Aditya Somani

Dr. Ajay Kumar

## HIGHLIGHTS

World Mental Health Day held on 10<sup>th</sup> October every year celebrates awareness for the global community in an empathetic way, with a unifying voice, helping those feel hopeful by empowering them to take action and to create lasting change. This year, the pandemic restricted us to go public and conduct awareness generation activity physically. But, while making this restriction an opportunity, we used technology to reach people with the same gusto and enthusiasm. Three online activities were planned and executed smoothly with all required support from institution.

1. An Online Debate Competition for MBBS/BSc

(Nursing) students of AIIMS, Raipur on the topic of “traditional teaching method is better than web-based teaching method” was organised.

2. An Online “Click- a- Pic”, a photography competition- An open entry competition was organised. The theme for the competition was "Emotion".
3. A webinar on “Mindfulness-based practices for wellbeing in everyday life” was hosted on the ZOOM platform on 10th October 2020.
4. Release of short movie titled "How are you?"

## EDUCATION

In wake of ongoing pandemic due to COVID-19, majority of academic activities are conducted over online mode. A total of 39 didactic lectures, 11 seminar, 15 case conferences and 8 journal clubs were conducted in department for PG training. 24 short topic discussions were conducted for interns and residents. Residents and consultants posted in COVID duties also joined these academic programs over online platform. On some occasion these activities were conducted in hybrid mode (Online and offline mode in department) when need was felt by participants. The annual intake of students in MD course in Psychiatry is five. Dr Shrayasi Das, PG resident of our department won 1st Prize winner in E-Poster competition during the annual CME of Association of Industrial Psychiatry of India held on virtual web platform on 12-12-2020.

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

S. No.	Event	Date	Organised By
1.	Workshop for students and staff of IIT, Bhilai on "Mental well being"- Webinar	15.09.2020	IIT Bhilai
2.	A webinar on "Mindfulness-based practices for wellbeing in everyday life" was hosted on the ZOOM platform for general public.	10.10.2020	AIIMS, Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Lokesh Kumar Singh

S. No.	Title	CME/Conference	Date	Organised By
1.	Legal Aspects of Substance use in India	Indian Psychiatric Society for the PG Development Program, Indian Psychiatric Society-Central Zone on, "Substance Use Disorder"	20.02.2021	IPS, Indore
2.	Dealing with stress during Covid time	Happiness program for PG students	29.08.2020	AIIMS, Raipur
3.	Mental well being of Kidney patients	CME on World Kidney Day	10.03.2021	Department of Nephrology and School of Public Health, AIIMS Raipur

### Dr. Sai Krishna Tikka

S. No.	Title	CME/Conference	Date	Organised By
1.	Exercise and Mental Health	Webinar cum panel discussion titled "Nutrition, exercise and Mental Health", Tele-Arogya Webinar Series Team	01.08.2020	Indian Psychiatric Society, Karnataka Chapter
2.	Practical aspects of avoiding Plagiarism	Online National Faculty Development Program on "Plagiarism check and bibliographic software"	09.06.2020	Sri Balaji Vidyapeeth, Puducherry

### Dr. Ajay Kumar

S. No.	Title	CME/Conference	Date	Organised By
1.	Use of Electronic logbook in psychiatry	National Webinar for Psychiatry Teachers	09.08.2020	Indian Psychiatric Society, Karnataka Chapter
2.	Clinical Classification in psychiatry at Cross Road- Perhaps it's time to say good bay to DSM & ICD	Manthan: Debates in Psychiatry	02.01.2021	Department of Psychiatry KGMU, Lucknow (U.P)

S. No.	Title	CME/Conference	Date	Organised By
3.	Re-looking at Role of Teachers in medical college-Beyond COVID-19	Webinar	21.01.2021	JSS Academy of Higher Education & Research, Mysuru (Karnataka)

### Dr. Aditya Somani

S. No.	Title	CME/Conference	Date	Organised By
1.	Is lithium carbonate still a drug of choice in bipolar disorder	Manthan: Debates in Psychiatry	05.07.2020	Central Zone Psychiatric Society (IPS-CZ)

### ORAL PAPER/POSTER PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Somani A, Singh LK	Satisfaction with Psychiatric Tele consultation Services during COVID-19 Pandemic: Perspective of Service Users*	Annual Conference of the Central Zone Psychiatric Society (IPS-CZ)	16-17 January 2021	Indian Psychiatry Society, Uttarakhand State Branch, Dehradun and Central Zone Psychiatric Society (IPS-CZ)

### RESEARCH Funded Projects Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year- End year	Total funds sanctioned (Rs.)
1.	Efficacy of brief tobacco cessation intervention on pattern and attitudes towards tobacco chewing in newly diagnosed head and neck cancer patients and their relatives: A pilot randomized controlled trial from Chhattisgarh	Dr. Lokesh Kumar Singh	State Planning Commission, Chhattisgarh	01	2019 - 2020	3,55,125
2.	Soft bipolarity and biomarkers in patients with cannabis use disorder- a controlled family study	Dr. Lokesh Kumar Singh	AIIMS Raipur (Intramural)	01	2019 - 2020	2,60,000

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year- End year	Total funds sanctioned (Rs.)
3.	Understanding the role of Inflammation in Major depression-A pilot study	Dr. Sucharita Mandal	AIIMS Raipur (Intramural)	01	2019 - 2020	5,00,000
4.	Prescribing practices of psychiatrists for patients with dementia- a multi-centre study across India- Funded study	Dr. Lokesh Kumar Singh	Indian Psychiatric Society	6 months	2020 - 2021	1,50,000

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

S. No.	Projects
1.	Perceived utility of Indian adaptation of Vineland Social Maturity Scale to measure contemporary adaptive behaviour: A survey on professionals.
2.	Digital media use in children and adolescents and its effect on their health, psychological & behavioural functioning, and family during Covid-19 lockdown in India.
3.	Cognitive functioning as a trait marker in cannabis use disorder
4.	External ear anomalies in Depressive disorder - A Cross Sectional Study
5.	Retinal structure abnormalities and facial emotion recognition in unmedicated first episode psychosis

### Completed

S. No.	Projects
1.	Appraisal of psychotherapy training in psychiatrist: A national survey
2.	Stress, Anxiety, Depression and Coping Behaviors in Interns of Tertiary care hospitals during Covid-19 lockdown In India
3.	Satisfaction with Psychiatric Teleconsultation Services during COVID-19 Pandemic: Perspective of Service Users
4.	A multi-centric study to explore the experiences of patients with substance use disorder during the lockdown period in India
5.	A Web based Survey of Psychological impact of COVID-19 pandemic on Medical and Nursing students in a Tertiary care Hospital in Central India.
6.	The COVID-19 Antenatal Anxiety (CAn) Study: A multi-centre, cross-sectional study assessing generalized and COVID-19 specific anxiety in pregnant women attending antenatal clinics in India
7.	The COVID-19 Domestic Violence (CoviDoVi) Survey: A web-based survey to explore nature, reasons and consequences of spousal violence in Indian women during COVID -19 lockdown

## Collaborative Projects Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Psychological Impact of COVID-19 in HCWs working in AIIMS Raipur	Department of Paediatrics, AIIMS, Raipur
2.	Development of a multimodal artificial intelligent system for detection of endophenotypes in schizophrenia using automated speech and EEG signal analysis.	NIT, Raipur (funded by DST-CSRI)

## Completed

S. No.	Project	Collaborating Department/Institution
1.	Assessment of Health and Domestic Violence on Men during Lock-down in India: A Survey based Study	Trauma and Emergency
2.	Evaluation of Knowledge, Concern and Psychological Stress of Attendants of Patients seeking Emergency Medical Care for Illnesses other than COVID-19 (Novel Corona Virus Disease) in a Tertiary Centre in Central India during COVID-19 Outbreak: A Questionnaire Based Survey	Trauma and Emergency
3.	Psychological Distress, Anxiety and Fear amongst Dental Practitioners in India due to COVID-19 Pandemic: Nationwide Online Survey	Department of Dentistry
4.	To Evaluate the Functional, Aesthetic and Quality of Life Outcome in Patients with Temporomandibular joint Ankylosis undergoing Concomitant Orthognathic Surgery with Joint Reconstruction using Vascularized Second Metatarsal Graft: A Pilot study	Dentistry
5.	Role of Tc-99m TRODAT in differentiating between idiopathic Parkinson's disease and drug-induced Parkinson's disease	Nuclear Medicine
6.	Effectiveness of virtual reality therapy on anxiety and symptom distress among children with Cancer at AIIMS, Raipur	College of Nursing

## PUBLICATIONS

- Singh S, Sinha VK, Singh S, Kapoor L, Praharaj SK, **Tikka SK, Singh LK**. Quality of life after coronary artery bypass graft & percutaneous transluminal coronary angioplasty: A follow up study from India. Indian J Med Res. 2020;152:423-6.
- Sinha P, Hussain T, Boora NK, Rao GN, Varghese M, Gururaj G, Benegal V, Pathak K, **Singh LK** et al. Prevalence of Common mental disorders in older adults: Results from the National Mental Health Survey of India. Asian J Psychiatr. 2020;55:102463.
- Singh LK, Tikka SK**. Nondisrupted, safety ensured, opioid substitution clinic in a COVID-19 designated hospital of a resource-limited state in India. Asia Pac Psychiatry. 2020:e12428. (doi: 10.1111/appy.12428. Online ahead of print)
- Tikka SK**, Singh BK, Nizamie SH, Garg S, Mandal S, Thakur K, **Singh LK**. Artificial intelligence-based classification of schizophrenia: A high

- density electroencephalographic and support vector machine study. *Indian J Psychiatry*. 2020; 62:273-82.
5. Spoorthy MS, **Singh LK**, **Tikka SK**, Hara SH. Exploratory Factor Analysis of Young's Internet Addiction Test Among Professionals from India: An Online Survey. *Indian J Psychol Med*. 2021;43:65-9.
  6. Jeayareka J, Raman K, **Singh LK**, Jagzape T. Effectiveness of virtual reality therapy on anxiety and symptom distress with chemotherapy among children with cancer. *Int J Res Pharm Sci*. 2020; 11(SPL4):3117-23.
  7. Godi SM, **Singh LK**. Cannabis-induced hallucinosis syndrome: A rare case report. *Indian J Psychiatry*. 2020;62:739-40.
  8. Nandan NK, **Singh LK**, **Tikka SK**, Shukla A. Withdrawal Emergent Recurrent Manic Episodes with Use of "Bhukki": A Case Report. *Indian J Psychiatry Med*. 2020. (doi:10.1177/0253717620960599; online ahead of print)
  9. Patojoshi A, Sidana A, Garg S, Mishra S, **Singh LK**, Goyal N, **Tikka SK**. 'Staying home is NOT staying safe': A rapid 8-day online survey on spousal violence against women during the COVID-19 lockdown in India. *Psychiatry and Clinical Neurosciences*. 2021;75(2):64-66.
  10. **Kumar A**, Chandran S. Sexual Violence and Sex Education in India: Are We Missing Wood for the Trees? *J Psychosexual Heal*. 2020;2:284-5. appraisal. *Indian J Psychiatry*. 2020;62:427-30.
  11. **Kumar A**, **Somani A**. Dealing with Corona virus anxiety and OCD. *Asian J Psychiatr*. 2020; 51:102053.
  12. **Kumar A**, Chandran S, **Somani A**. Conducting online web-based surveys at the time of COVID-19 pandemic: A short report. *Arch Ment Health*. 2021 (doi: 10.4103/AMH.AMH\_44\_20; available online ahead of print).
  13. **Kumar A**, Grover S. A rare association of lithium carbonate with blepharospasm: A case report. *Indian J Psychiatry*. 2020;62:743-5.
  14. Kishor M, Chandran S, **Kumar A**. Coronavirus Disease-19: Is it Time to Reflect on the Entrance Process for Medical Profession in India? *J Med Sci Heal*. 2020; 6:66-7.
  15. Kishor M, Shah H, Chandran S, Mysore A, **Kumar A**, Menon V, et al. Psychiatry postgraduate examinations for 2020 in the middle of COVID 19 crisis: Suggestions from Indian teachers of psychiatry. *Indian J Psychiatry*. 2020;62:431-4.
  16. **Somani A**, **Kumar A**. Comment on "Attitude, practice, behavior, and mental health impact of COVID-19 on doctors". *Indian J Psychiatry*. 62:445-6.
  17. Kishor M, Menon V, Vinay HR, Bhise MC, Isaac M, Chandran S, **Kumar A**, et al. COVID-19 pandemic highlights the need to reconsider psychiatry training of Indian medical graduate. *Int J Health Allied Sci* 2020;9:104-6.
  18. **Somani A**, Chandran S, Satapathy A, **Kumar A**, Farooqui AM, Pradeep J, et al. Psychological distress during early phase of COVID-19 pandemic among Indian adults. *Arch Ment Health*. 2020;21:101-6.
  19. **Somani A**. Mephentermine dependence in a young Indian adult without psychosis. *BMJ Case Rep*. 2020; 13:e236924.
  20. Dutta P, Dhyani M, Garg S, **Tikka SK**, Khattri S, Mehta S, et al. Efficacy of intensive orbitofrontal continuous Theta Burst Stimulation (iOfcTBS) in Obsessive Compulsive Disorder: A Randomized Placebo Controlled Study. *Psychiatry Res*. 2021;298:113784.
  21. Yadav S, Nizamie SH, Das B, Das J, **Tikka SK**. Resting State Quantitative Electroencephalogram Gamma Power Spectra in Patients with First Episode Psychosis: An Observational Study. *Asia J Psychiatr*. 2021;57:102550.
  22. Chauhan P, Garg S, **Tikka SK**, Khattri S. Efficacy of intensive cerebellar intermittent Theta Burst Stimulation (iCiTBS) in treatment resistant schizophrenia: A randomized placebo-controlled study. *Cerebellum*. 2021;20:116-23.
  23. Mishra P, Nizamie SH, Jahan M, Garg S, **Tikka SK**, Goyal N, et al. Predictors of chronicity in alcohol use disorder: an evoked response potential study. *J Addict Dis*. 2020; 38:411-9.
  24. **Tikka SK**, Garg S, Dubey M. How to effectively break bad news: The COVID-19 Etiquettes. *Indian J Psychol Med*. 2020;42:491-3.
  25. Gupta R, Grover S, Basu A, .....**Tikka SK**, et al. Changes in sleep pattern and sleep quality during COVID-19 lockdown. *Indian J Psychiatry*. 2020;62:370-8.
  26. Patojoshi A, **Tikka SK**. School-based substance use disorder prevention in India: A brief appraisal. *Indian J Psychiatry*. 2020;62:427-30.

## Chapters in Book

S. No.	Author(s)	Chapter	Name of the Editor	Book	Edition	City of Publication	Publisher	Year of Publication
1.	Tikka SK, Kumar A	Mental Health help Seeking in medical Students	Dr Suhas Chandran & Dr Sandip Deshpande	Surviving COVID-19 as medical student	First	Bangalore	Indian medical Association (IMA)	August, 2020
2.	Somani A	Anxiety	Shackelford TK, Weekes Shackelford VA	Encyclopedia of Evolutionary Psychological Science	1 <sup>st</sup>	Cham, Switzerland	Springer International Publishing	2020
3.	Shukla A, Tikka SK, Singh LK	Mood disorders (Depression and Mania)	Kumar R (Ed).	Essentials of Psychiatry and Mental Health Nursing		New Delhi	Elsevier India	2020

## 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 Special clinic for patients of opioid dependence- every Monday and Thursday

Services	OPD	Tele Consultation Patients	Patients Admitted in the Psychiatry Ward	Special Clinic Attendance	Clinical Psychology Assessment and Therapies	Child Psychology Assessment and Therapies
<b>Total</b>	8395	2957	159	3370	116	172

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

**Dr. Aditya Somani** got the prize for best paper in Annual Conference of the Central Zone Psychiatric Society (IPS-CZ) held at Dehradun in January 2021.

**Dr. Ajay Kumar** became Honorary Secretary of Faculty Training Taskforce, Indian Psychiatry Society for the year 2021. Dr. Ajay Kumar attended Faculty Development program, Skill and Simulation implementation at Medical Institution Lab conducted by JSSAHER, Skill and simulation center, Mysuru (Karnataka) from 18<sup>th</sup>-19<sup>th</sup> Mar 2021.

**Dr. Aditya Somani** has been serving as member of editorial board of Indian Journal of Health, Sexuality & Culture and is also the issue editor of the next issue of this journal. He has also joined the editorial board of the Indian Journal of Social Psychiatry as Assistant Editor and Indian Journal of Behavioral Sciences as Assistant Editor. Dr. Aditya Somani has been serving on the panel of experts in subject of Psychiatry for National Board of Examinations, New Delhi.



## Department of Pulmonary Medicine

### Professor and Head

Dr. Sajal De

### Associate Professor

Dr. Ajoy Kumar Behera

### Assistant Professors

Dr. Ranganath T.G.

Dr. Dibakar Sahu

## HIGHLIGHTS

DM (Pulmonary, Critical Care, and Sleep Medicine) course was started and the first candidate joined in the July 2020 session. Sensitization activities under National Tuberculosis Elimination Programme were conducted from 19 to 25.03.2021 for Faculties, Senior Residents, Junior Residents, Private practitioners, and Nursing Officers. On 24/3/2021

Interventional Bronchoscopy suite was inaugurated by Honorable President Dr. George D'souza, President, AIIMS Raipur in the presence of Prof. (Dr.) Nitin. M. Nagarkar, Director AIIMS Raipur. The department organized 6 days online training program (March 2021) on COPD for Staff Nurses of the Health dept, Chhattisgarh under NPCDCS.

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Sajal De

S. No.	Title	CME/Conference	Date	Organised By
1.	Introduction to Impulse oscillometry	Webinar	20.01.2021	Dept. of Respiratory Medicine, KGMU, Lucknow

### Dr. Ajoy Kumar Behera

S. No.	Title	CME/Conference	Date	Organised By
1.	Clinical case Management	COVID-19 Pandemic Webinar for SAARC	21.04.2020	Telemedicine facility AIIMS, Raipur
2.	Latest update on Tuberculosis	STF ( Workshop, Chhattisgarh)	17.12.2020	NTEP (Unit) AIIMS, Raipur

S. No.	Title	CME/Conference	Date	Organised By
3.	Recent updates on NTEP	CME on Modern Trends on Tuberculosis under NTEP	08.01.2021	Telemedicine facility AIIMS, Raipur
4.	22 <sup>nd</sup> NAPCON	On line Participation in NAPCON	27-30.01.2021	ICS & NCCP (India)
5.	ZTF Workshop ( East Zone)	National Tuberculosis Elimination Programme update	06.02.2021	ZTF ( East Zone, Bihar)
6.	Latest guidelines on COVID-19	IMA Chhattisgarh conference as chairperson	13.03.2021	IMA, Chhattisgarh
7.	Diagnosis and Management of Bronchial Asthma	On line Master Trainer on Chronic Airway Diseases for Medical officers	17 <sup>th</sup> , 19 <sup>th</sup> , & 26.03.2021	SIHFW Govt of C.G.
8.	Recent updates on NTEP	Sensitization Programme for Nursing officers, Residents, Paediatricians, Private Practitioners.	17 <sup>th</sup> , 19 <sup>th</sup> , & 26.03.2021	NTEP Unit, AIIMS, Raipur
9.	COVID-19 Treatment Protocol	Webinar on COVID-19	21.03.2021	Dept of Family & Welfare Govt of C.G

#### Dr. Ranganath T.G.

S. No.	Title	CME/Conference	Date	Organised By
1.	Role of Medical Thoracoscopy	Intervention Pulmonology update NITTE online conference	20.03.2021	NITTE Mangalore, Karnataka
2.	Management COPD (role of nursing care).	Master trainer in Online training on chronic obstructive pulmonary disease for medical officers.	16 <sup>th</sup> , 18 <sup>th</sup> & 23.03.2021	SIHFW, Govt of CG
3.	Chronic airway disease management.	Medical officer training in the national program on health care of elderly.	27.02.2021	State health resource cell, Govt of CG, Raipur
4.	Practice of pulmonary medicine during COVID times; challenges, evidences and view points	Inter-institutional AIIMS panel discussion.	09.09.2020	AIIMS, Jodhpur
5.	Review of a decade of SPECT CT: Is it time to ditch planar and SPECT CT gamma camera systems ?	SNMICON 2020	11.12.2020	Dept.of Nuclear, Medicine AIIMS, Raipur

#### Dr. Dibakar Sahu

S. No.	Title	CME/Conference	Date	Organised By
1.	Diagnosis of COPD (role of nursing care).	Master Trainer in Online Training on Chronic Obstructive Pulmonary Disease for Medical Officers.	16 <sup>th</sup> , 18 <sup>th</sup> & 23.03.2021	SIHFW, Govt of CG

## ORAL PAPER/POSTER PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	Sahu D	Do we require De-aeration of Exhaled Breath Condensate Samples for Measuring pH.	European Respiratory Society(ERS 2020) International Congress 2020	07.09.2020	European Respiratory Society(ERS)

## RESEARCH Funded Projects Ongoing

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) in Adult, COVID 19 Positive Patients Hospitalized but not Critically ill	Sajal De	Cadila Pharma	09 Months	01.10.2020	10.0 lakh
2.	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	6 Months	01.10.2020	8.75 lakh
3.	National Environmental Health Profile Study	Dr.Ajoy Kumar Behera	Ministry of Environment, Forest & climate change	3 Years	2019-2021	52.57lakh
4.	ICMR's Network of Pulmonary Fibrosis(INPF)	Dr.Ajoy Kumar Behera	ICMR Hqrs, New Delhi	5 Years	2021-2025	45.3 lakh

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
5.	A Phase 3, Double-Blind, Placebo-Controlled, Prospective, Randomized, Comparative, Parallel Group, Multi-Center, Study to Assess The Efficacy And Safety Of Inosine Pranobex Added To defined Standard Of Care In Covid-19 Patients	Dr. Ranganath.T.G	Themis medicare	6 Months	02/2021	12 Lakh

### Completed

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year-End year	Total funds sanctioned (Rs.)
1.	Phase 3, Prospective, Randomized, Open Label, Comparative, Clinical Study To Evaluate Efficacy And Safety Of Ulinastatin Plus Standard-Of-Care Compared To Standard-Of-Care In Treatment Of Acute Respiratory Distress Syndrome (ARDS) In Hospitalized COVID-19 Infection Patient.	Dr.DibakarSahu	Bharat Serums and vaccines	6 months	08/ 2020-01/2021	40000

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

S. No.	Projects
1.	Assessment of respiratory morbidities and lung function in COVID 19 survivors: An Observational Study

## Collaborative Projects

### Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Characterization of the proteolytic processes in the serum of patients with Severe Acute Syndrome Coronavirus 2 (SARS-CoV-2) pneumonia- a pilot study.(PI: <u>Sajal De</u> )	ICMR-National Institute of Malaria Research Sector-8, Dwarka, New Delhi-110077
2.	Lung Perfusion Scintigraphy in Early Post-COVID-19: A Retrospective Analysis. (PI: Sajal De)	Dept of Nuclear Medicine, AIIMS, Raipur
3.	Assessment of cognitive functions & its association with sleep-wake pattern and light at night(LAN) exposure duration in COPD patients.(PI: <u>Ajoy Kumar Behera</u> )	Dept. of Physiology & Dept. of Psychiatry AIIMS,Raipur
4.	Correlation of circadian rhythmicity of rest activity with heart rate variability in Bronchial Asthma & its clinical implication.(PI: <u>Ajoy Kumar Behera</u> )	Dept. of Physiology AIIMS,Raipur & School of life Sciences, PRSU, Raipur
5.	Circadian rhythm of rest activity and heart rate variability and its relation to genetic polymorphism in Asthmatic Patients.(PI: Ajoy Kumar Behera)	Dept. of Physiology, Dept. of Biochemistry AIIMS,Raipur

### Completed

S. No.	Project	Collaborating Department/Institution
1.	Clinicopathological & Immunohistochemical Profile of Primary Lung Carcinomas in tertiary Care.(PI: <u>Ajoy Kumar Behera</u> )	Dept.of Pathology & Lab Medicine, AIIMS, Raipur.
2.	Alteration in Neural and cognitive status in Asthmatic patients.(PI: Ajoy Kumar Behera)	Dept. of Physiology & Dept. of Psychiatry AIIMS,Raipur

## PUBLICATIONS

- S.De**, D Shan Muga Sundaram, S Singh, N Banerjee, K K Soni, R Galgalekar. Chronic respiratory morbidity in the Bhopal gas disaster cohorts: a time-trend analysis of cross-sectional data (1986–2016). Public Health 2020; 186:20-27 (PMID: 32750505) (IF: 1.77)
- Sajal De**. Long-term Ambient air Pollution exposure and respiratory impedance in children: A cross-sectional study. RespirMed. DOI:2020;170: 105795. doi: 10.1016/j.rmed.2019.09.015 (PMID: 32843155) (IF: 3.23)
- D, Kumari V, Vashisht K, Galgalekar R, Samarth RM, Mishra PK, Banerjee N, Dixit R, Saluja R, **De S**, Pandey KC. Elevated serum matrix metalloprotease (MMP-2) as a candidate biomarker for stable COPD. BMC Pulm Med. 2020;20:302. (PMID: 33198714) (IF:2.21)
- S De**, Q Khan, D Sahu. Do we require de-aeration of exhaled breath condensate samples for measuring pH. European Respiratory Journal 56 (suppl 64) 158; DOI: 10.1183/13993003.

5. Agrawal S, Dubey S S, **Behera A**. the ultraviolet germicidal chamber (LUMOS-TEZ) for decontamination of N 95 face filter respirator. Int J Scientific Research 2020;9:1.
6. Sinha M, **Behera A**, Sinha R, Sharma R. circadian rhythmicity of heart rate variability & its impact on cardiac autonomic modulation in Asthma. Chronobiology International (Submitted)
7. Jain M, Sinha M, Sinha R, **Behera A**, Mandal S. Alteration of cognitive status in Asthmatic patients. Annual conference of the association of Physiologists of INDIA;5:22
8. Pande B, Sinha M, **Behera A**, Sinha R. Assessment of cognitive status by short interval time estimation & reaction time and their association with sleep-wake variables in COPD . Biennial SAAP VII&PSI Conference, organized by HIMSR, New Delhi. 21<sup>st</sup> -24<sup>th</sup> March 2021.
9. Singh D, Sinha B K, **Behera A**. Differential diagnosis of asthma and COPD using statistical analysis on data of pulmonary function test report. 12 CT Pune, India. Apr 02-04-, 2021.
10. Singh D, Sinha B K, **Behera A**. comparative study of different IIR filter for denoising lung sound. 12 CT Pune, India. Apr 02-04-, 2021.
11. Sharma P **Ganga RT**. Anti-IgE Monoclonal Antibody in Allergic Bronchopulmonary Aspergillosis Not Responding to Systemic Steroids. J Health Allied Sci<sup>NU</sup> 2021;00:1-3
12. S Mamatha, A Haran, S Ashwini, **Ganga RT**, H Ajit. Diagnostic Validity of Computed Tomography Thorax in Comparison with Fibreoptic Bronchoscopy for Endobronchial Lesions. JCDR 2021;15(3):OC09-OC13
13. Ravina M, Baruah TD, Lukose T, **Ganga RT**, Moideen A. Incidental lung findings in a COVID-19 patient on 18F-FDGPET/CT done for preoperative evaluation of Marjolin's ulcer-first report from Chhattisgarh. World J Nucl Med 2020;0:0-0.
14. Sharma P **Ganga RT**. Achalasia Cardia: A Mimicker of Pulmonary Tuberculosis in a High-Burden Setting. J Health Allied Sci<sup>NU</sup>:2021;11:54-56
15. Sharma P, Kumar A, Mamatha S, **Ganga RT**. Diagnostic Performance of Xpert MTB/RIF in Bronchoalveolar Lavage of Sputum-Scarce Recurrent Pulmonary Tuberculosis Cases. J Health Allied Sci<sup>NU</sup>: 2020; 10(02): 74-78

## PATIENT CARE

### Facilities available in the department.

The Department of Pulmonary Medicine is providing OPD and IPD services, respiratory critical care, bronchoscopy, polysomnography, pulmonary rehabilitation, and 24 hr Emergency services.

FY 20- 21	OPD	IPD	Investigations / Procedures			NTEP		
			Pulmonary Function Test	Polysomnography	Bronchoscopy	Slide Examined for M Tb	Positive cases	Patients put on DOTS
<b>Total</b>	4817	943	749	22	114	2515	153	107

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

**Dr. Sajal De and Dr. T. G. Ranganath** were awarded Fellowship of Asian Pacific Society of Respirology. **Dr. Sajal De** was deputed as a Central team member to assist the State of Assam, West Bengal, and Chhattisgarh in controlling the COVID-19 pandemic. **Dr. Ajoy Kumar Behera** won the IMA NATIONAL PRESIDENT'S Appreciation award for COVID-19 care & Control 2020, CORONA Yodha Sanman by PM-24 News on 10<sup>th</sup> July 2020. He is the Nodal officer for COVID-19 in pandemic Situation. He was selected by Gol as a master trainer for COVID-19 for the state of Chhattisgarh by the Chhattisgarh Government.

**Dr. Ranganath T. G. was** deputed as **COVID 19 Central team** member to assist the state of Chhattisgarh in controlling COVID 19 pandemic **and** as member of **COVID 19 Rapid Response Team** for controlling the outbreak of COVID 19 in Chhattisgarh. **He is a** member of **COVID 19 treatment committee** for AIIMS Raipur.



**CME ON TB ELIMINATION**



**PULMONARY- INTERVENTIONAL PULMONOLOGY SUITE**

## Department of Radiodiagnosis

### Professor & Head

Dr. Narendra Kuber Bodhey

### Assistant Professors

Dr. Saroj Kumar Pati

Dr. Nilesh Gupta

### HIGHLIGHTS

The department of Radiodiagnosis is now well equipped with all state of the art equipments like, Digital Radiography (1000 mAs DR), Digital radiofluoroscopy (DRF), Doppler USGs, 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 14 by the end of March

2021 with 5 PG incumbents in the current year. The department has one incumbent candidate for post-doctoral certificate course (PDCC) in Cardiothoracic and Vascular Imaging and Interventional Radiology for this year. Four students were admitted to the B.Sc. Radiography course in this year to make a total of 9 seats (Five 2<sup>nd</sup> year and Four 1<sup>st</sup> year students). The passed out students are so far are one MD (Radiodiagnosis) student and one PDCC student.

### EDUCATION

**Academic courses conducted by the Department:** PDCC (Cardiothoracic and Vascular Imaging and Interventional Radiology), MD Radiodiagnosis, B.Sc. Medical Technology in Radiography, Collaborative Ph.D. Course with National Institute of Technology, Raipur.

Conducted **Undergraduate** Classes for M.B.B.S. students (22), Theory classes for undergraduate B.Sc. Technology (Radiography) students (70) & Practical classes for undergraduate B.Sc. Technology (Radiography) students (120).

**Post-Graduate:** Seminars for Junior & Senior Residents (36), Case Presentations (includes long and short cases) (160), Film Reading sessions (174), Interdepartmental sessions (33) & Procedure Teaching (30)

**National Board of Examination:** The Department conducted the practical examination of DNB final in coordination with the NBE on March 31, 2021.

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

#### Prof.(Dr.) Narendra Bodhey

S. No.	Title	CME/Conference	Date	Organised By
1.	Medical Perspective in Industry Institute Collaboration	Industry institute conclave 2020	01.11.2020	NIT, Raipur.
2.	Mobile Radiation Effects: Facts and Myths.	Resource Faculty for a webinar on "Radiation effects of Mobile usage".	18.03.2021	Department of Telecommunication, Raipur
3.	Chaired a session on treatment of drug resistant tuberculosis	CME on TB elimination on World Tuberculosis Day	24.3.2021	Department of Pulmonary Medicine, AIIMS Raipur



## Funded Projects 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/-.
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/-

## RESEARCH Departmental Projects Ongoing

S. No.	Projects
1	Evaluation of Diffusion Weighted MR Imaging and Diffusion Tensor Imaging in Spinal Tuberculosis with 3 Tesla MRI
2.	Differentiation Between Classic and Atypical Meningiomas by Diffusion Tensor Imaging and Diffusion Weighted Imaging with 3 Tesla MRI
3.	Role of Diffusion Weighted Imaging and Dynamic Contrast Enhance MRI for Pre-Operative Assessment of Endometrial Carcinoma.
4.	Differentiation of Intraaxial Brain Tumours Using Diffusion Weighted Imaging, Diffusion Tensor Imaging and Perfusion Imaging.
5.	Assessment of Spectrum of Multiparametric Breast MRI in Characterisation of Breast Lesions.
6.	MR Imaging Spectra in Complex Renal Lesions with 3 Tesla MRI
7.	Characterisation of Prostatic Lesion on Multiparametric MRI.
8.	Multidetector computed tomography and ultrasonography correlation in severity assessment of acute pancreatitis.

S. No.	Projects
9.	Multiparametric magnetic resonance imaging characterisation of oral and oropharyngeal mucosal lesions.
10.	Spectrum of advanced MRI parameters in various posterior fossa tumours with 3T MRI.

### Departmental Projects Completed

S. No.	Projects
1	Assessment of ventricular function and late gadolinium enhancement patterns in patients of non-ischemic cardiomyopathy with 3Tesla MRI

### Collaborative Projects Ongoing

S. No.	Project	Collaborating Department/Institution
1.	Computer Aided Detection of Breast Lesions: A Study On Different Imaging Modalities.	Dept of Biomedical Engineering, National Institute of Technology, Raipur.
2.	Deep Learning Based Corpus Callosum Segmentation and its Application in Detection of Diseases.	Dept of Electronics & Telecommunication, National Institute of Technology, Raipur.
3.	Estimation of Plasma Interleukin-33 Level in Sickle Cell Disease Patients with Hip Osteonecrosis.	Dept of Orthopaedics, AIIMS-Raipur.
4.	Randomised control trial comparing ultrasound guided therapeutic transcatheter aspiration and slanted incision drainage (I & D) in PVL toxin producing staphylococcal aureus superficial soft tissue abscess in paediatric patients: a hospital based pilot study.	Dept. of Paediatric surgery, AIIMS Raipur.
5.	To study the efficacy of uniportal video assisted thoroscopic lung biopsy in the management of interstitial lung disease.	Department of Cardiothoracic and Vascular Surgery, AIIMS-Raipur.
6.	ICMR's network of pulmonary fibrosis.	Multi-institutional collaborative study in association with department of Pulmonary Medicine, AIIMS-Raipur.

### PATIENT CARE

The major addition seen in the spectrum of patient care services was the imaging of COVID patients for X-Ray (Bedside) and CT scans (in trauma building).

## Investigations :-

Investigation / Procedures		Total
X-Ray		54285
Portable X-Ray		7678
Portable X-Ray (Covid ward)		7216
USG	General USG	7869
	Doppler	399
	ANC	635
CT Scan	General CT Scan	9226
	Angiography	202
	Covid ward	93
MRI	General MRI	2107
	Special MRI (DTI, MRS, etc)	315
	Contrast MRI	852
OPG		1437
Mammography		132
Contrast X ray procedure (MCU, RGU & Sinogram)		207
Image guided Interventional Radiology Procedure (DSA, CT Scan& USG)		270
Investigation Under anesthesia	MRI	96
	CT scan	46
OPD (Direct OPD + Cross consultation)		356

## PUBLICATIONS

- Balpande NN, Singh S, **Bodhey NK**. Accessory left circumflex artery arising from left coronary sinus. *Annals of Cardiology and Cardiovascular medicine*. 2020;V(2): 1039.
- Gupta AK, Phukan P, **Bodhey NK**. Percutaneous vertebroplasty for the treatment of symptomatic vertebral hemangioma with long-term follow up. *Interdisciplinary Neurosurgery: Advanced Technique and Case Management*. 2021; 100968.
- Gandhoke CS, Gupta SK, Sharma AK, Ayalashomayajula S, Sinha M, **Pati SK**, Syal SK. Triplomyelia in case of diastematomyelia: A new entity. *Surgical neurology international*. 2020; 11: 324.
- Wasnik PD, Hussain N, **Bodhey NK, Pati SK**. Clear cell sarcoma in pelvic region-case report. *Indian Journal of Pathology and Oncology*. 2021; 8(1):162165.

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

**Dr. Narendra Bodhey** is a member of the Departmental Academic Committee of the Dept of Biomedical Engineering, National Institute of Technology, Raipur, Guide/Supervisor for the PhD projects at NIT Raipur. He is a reviewer on the American Journal of Roentgenology, Indian Journal of Radiology and Imaging, Annals of Cardiac Anaesthesia.

## Department of Radiotherapy

### Associate Professor & In-charge

Dr. Siddhartha Nanda

### HIGHLIGHTS

The department is providing state of the art Linear Accelerator based External Beam radiotherapy treatment at our department for various cancer patients. The department is presently treating patients with Elekta Versa HD LINAC system. We are using Volumetric Arc Therapy (VMAT), Intensity Modulated Radiotherapy (IMRT), 3 Dimensional Conformal Radiotherapy (3D CRT), conventional radiotherapy and Electron Beam therapy for patients. The department is performing adjuvant,

postoperative and concurrent chemo-radiotherapy as per indications. The department has also started radiotherapy of the whole bone for intra-operative implantation in patients undergoing limb salvage for bone tumours. Prophylactic cranial irradiation is also being done for Acute Leukemic patients. Palliative radiotherapy is also being delivered to patients with metastatic or locally advanced disease. Post graduate course is already approved by the Academic Council.

### EDUCATION

Senior Residents: Hands on training of Senior Resident doctors is being provided for day to day OPD management of cases, handling of Day Care chemotherapy and their side effects. They are specifically being trained for CT Simulation of patients being planned for radiotherapy. They are also being trained about contouring of normal tissues and various tumor volumes on the Treatment Planning System. They are also being trained about various planning modalities like 2D, 3DCRT, IMRT and VMAT. They are also learning medical physics and are being trained in plan evaluation. Besides their routine daily activity they are also involved in departmental academic activities.

Nursing Students: During the posting of nursing student they were taught basics of Oncology and were given practical training on preparation and delivery of cyto-toxic chemotherapy agents to patients with various solid tumors.

### CMEs/Workshops/Symposia/National and International Conferences

S. No.	Title	CME/Conference	Date	Organised By
1.	World Cancer Day Celebrations	World Cancer Day Celebration & CNE	04.02.2021	College of Nursing & Dept. of Radiotherapy, AIIMS Raipur

## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

**Dr. Siddhartha Nanda**

S. No.	Title	CME/Conference	Date	Organised By
1.	Together all of our Actions Matter	World Cancer Day Celebration & CNE	04.02. 2021	College of Nursing & Dept. of Radiotherapy, AIIMS Raipur

## RESEARCH

### Departmental Funded 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	2 Years	2020 – 2022	4,91,150

### Departmental Non funded Projects: (including thesis/dissertations) Ongoing

S. No.	Projects
1	Prevention of Extravasation of Chemotherapeutic Agents by Infusing Normal Saline Prior to Starting Chemotherapy
2	Clinico-Epidemiological Patterns of Breast Cancer Patients Attending a Tertiary Care Hospital in Central India

## RESEARCH

### Departmental Projects (including thesis/dissertations) Ongoing

S. No.	Projects
1	Evaluation of Diffusion Weighted MR Imaging and Diffusion Tensor Imaging in Spinal Tuberculosis with 3 Tesla MRI
2.	Differentiation Between Classic and Atypical Meningiomas by Diffusion Tensor Imaging and Diffusion Weighted Imaging with 3 Tesla MRI
3.	Role of Diffusion Weighted Imaging and Dynamic Contrast Enhance MRI for Pre-Operative Assessment of Endometrial Carcinoma.
4.	Differentiation of Intraaxial Brain Tumours Using Diffusion Weighted Imaging, Diffusion Tensor Imaging and Perfusion Imaging.
5.	Assessment of Spectrum of Multiparametric Breast MRI in Characterisation of Breast Lesions.

S. No.	Projects
6.	MR Imaging Spectra in Complex Renal Lesions with 3 Tesla MRI
7.	Characterisation of Prostatic Lesion on Multiparametric MRI.
8.	Multidetector computed tomography and ultrasonography correlation in severity assessment of acute pancreatitis.
9.	Multiparametric magnetic resonance imaging characterisation of oral and oropharyngeal mucosal lesions.
10.	Spectrum of advanced MRI parameters in various posterior fossa tumours with 3T MRI.

### Departmental Projects (including thesis/dissertations) Completed

S. No.	Projects
1	Assessment of ventricular function and late gadolinium enhancement patterns in patients of non-ischemic cardiomyopathy with 3Tesla MRI

### Collaborative Projects Ongoing

S. No.	Project	Collaborating Department/Institution
1.	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	Nuclear Medicine
2.	Multiparametric MR characterization of oral and oropharyngeal lesions.	Radiodiagnosis , ENT &HN Surgery

### Completed

S. No.	Project	Collaborating Department/Institution
1.	Assessment Of Baseline Cardiac Autonomic Functions In Cancer Patients: ICMR Short Term Studentship Project	Department of Radiotherapy & Department of Physiology
2.	Profile of Cardiovascular Autonomic Dysfunction In Breast Cancer Patients	Department of Radiotherapy & Department of Physiology

### PUBLICATIONS:

- Bansal H, Ravina M, **Nanda S**, Lukose TT, Krishna S. Diffuse White Adipose Tissue 18F-FDG Uptake-An Unusual Finding on 18F-FDG PET/CT. Clin Nucl Med. 2021 doi: 10.1097/RLU.0000000000003652. Epub ahead of print. PMID: 33867453.

## PATIENT CARE

Total of 7177 patients have been treated during the reporting period. They received chemotherapy/supportive/follow up care in the current year at Day Care.

Annual Data	OPD	Day Care Chemotherapy	Radiotherapy Fractions	CT Simulation	Mould Preparation	QA
<b>Total</b>	3923	1710	5570	226	118	130

The department is equipped to evaluate and diagnose and treat various cancer patients. The department has a functional adult day care for management of patients with solid tumors on Chemotherapy.

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

- Radiotherapy OPD was awarded as Best Performing OPD in 26<sup>th</sup> January 2021 during the internal evaluation of Kaya Kaalp. Dr. Siddhartha Nanda chaired a session in SNMICON held at AIIMS, Raipur from 11-13 December 2020. He prepared DNB Radiotherapy OSCE Question Bank for National Board of Examinations in August 2020. He was appointed expert for evaluation of the proposals for NRDC National Meritorious Invention Awards 2020. He was also elected as the treasurer of Chhattisgarh State Oncologists Association.

Our department was a voluntary participant in the IAEA/WHO Postal Dose Audit conducted by International Atomic Energy Agency Laboratory, Sibersdorf , Austria during 5-20 December 2020. The primary aim of the audit is to check the accuracy and consistency of dose delivery of the radiotherapy unit.

## Department of Transfusion Medicine & Blood Bank

### Associate Professor & In-charge

Dr. Sankalp Sharma

### Associate Professor

Dr. Ramesh Chandrakar

### Assistant Professor

Dr. Minal Wasnik

## HIGHLIGHTS

The Department of Transfusion Medicine and Blood Bank expanded its services with the opening of Blood Storage Center at the Trauma Building with a facility to store all Blood Components (products) including Apheresis platelets. The department shall shortly initiate a therapeutic plasma exchange facility at the premises. The year 2020-21 was a challenging year due to an outbreak of Sars-Cov-2 infection which eventually became a global pandemic. The blood requirements of the Hospital was sustained by its campaign for voluntary donations and organizing 'small events'. The department sustained its teaching obligations by holding on-line (virtual) classes for the M.B.B.S and BSCMLT students during the past year

and attending national and international educational events and workshops to keep updated information regarding current advancement in transfusion Medicine and presented scientific abstracts and posters at the event. There are two ongoing intramural projects and one extramural project at the Department. An interinstitutional project on Blood safety was allocated to the Department which shall shortly be started. The Department participated at an International conference on stem cell and regenerative medicine as one of the co-organizer for the workshop at the conference for regenerative Medicine.

## EDUCATION

The Department received second batch of BSc MLT students; while the first batch students were promoted to second year. The department received our postgraduate students (MD Transfusion Medicine program) with an uptake of four students every year (two every six months). Due to ongoing SARS-COV-2 epidemic, Department continued its undergraduate & postgraduate teaching in an online mode. The Department actively participated in Indian Stem Cell Study Group Association on 4th Biennial International Conference- ISCSGCON 2021 organized by AIIMS, Raipur (C.G.) on 13<sup>th</sup> & 14<sup>th</sup> February, 2021.

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

S. No.	Title	CME/Conference	Date	Organised By
1.	4th Biennial International ISCSGCON 2021 from 13 <sup>th</sup> to 14 <sup>th</sup> February 2021	International Conference	13 <sup>th</sup> to 14.02.2021	AIIMS Raipur



## LECTURES DELIVERED AT CMEs, NATIONAL & INTERNATIONAL CONFERENCES

### Dr. Sankalp Sharma

S. No.	Title	CME/Conference	Date	Organised By
1.	Overview Of Platelet Rich Plasma	4th Biennial International ISCSGCON 2021 From 13 <sup>th</sup> To	13 <sup>th</sup> to 14.02.2021	AIIMS, Raipur
2.	Video On – Demonstration Of Autologous Platelet Rich Plasma Preparation At Blood Bank	International Conference	13 <sup>th</sup> to 14.02.2021	AIIMS, Raipur

### Dr. Ramesh Chandrakar

S. No.	Title	CME/Conference	Date	Organised By
1.	Video On – Demonstration Of Autologous Platelet Rich Plasma Preparation At Blood Bank	International Conference	13 <sup>th</sup> to 14.02.2021	AIIMS, Raipur

### Dr. Minal Wasnik

S. No.	Title	CME/Conference	Date	Organised By
1.	Demonstration of Platelet Rich Fibrin.	Indian Stem Cell Study Group Association- 4th Biennial International Conference- ISCSGCON 2021	13 <sup>th</sup> to 14.02.2021	AIIMS, Raipur

## ORAL PAPERS/POSTERS PRESENTED

S. No.	Authors	Title	Conference	Date	Organised By
1.	S Sharma, S Jondhale, M Patel, A Shukla and A Goel	To Analyse Standardization Of Blood Dosage By The Body Surface Area And The Effect Of Blood Storage Towards The Post-Transfusion Hemoglobin Levels Within Pediatric Transfusion Recipients.	ISBT 2020 (Oral Presentation) Clinical - Learning from Clinical Studies	12-16.12.2020	International Society Of Blood Transfusion
2.	Wasnik M, Patel M, Chandrakar R, Lahare S, Verma A, Sharma R, Sharma S, et al.	Impact of COVID-19 Pandemic on Blood Transfusion Services: Strategies to Overcome.	61st Annual Conference of Indian Society of Hematology & Blood Transfusion (ISHBT) November 2020 HAEMATOCON 2020	05-08.11.2020	Indian Society of Hematology & Blood Transfusion (ISHBT)

S. No.	Authors	Title	Conference	Date	Organised By
3.	Wasnik M, Prasad D.	Demographic & Blood Group Characteristics of Hospitalized Covid-19: Experience of Private Hospital.	61st Annual Conference of Indian Society of Hematology & Blood Transfusion (ISHBT) November 2020 HAEMATOCON 2020	05-08 November 2020	Indian Society of Hematology & Blood Transfusion (ISHBT)
4.	Lahare S, Wasnik M, Chandrakar R, Sharma S, Patel M, Thakur J, Sahu M.	Sero-Prevalence of Transfusion Transmitted Infections Among Blood Donors at AIIMS Raipur.	61st Annual Conference of Indian Society of Hematology & Blood Transfusion (ISHBT) November 2020 HAEMATOCON 2020	05-08 November 2020	Indian Society of Hematology & Blood Transfusion (ISHBT)
5.	Lahare S, Wasnik M, Chandrakar R, Sharma S, Thakur J, Sahu M.	Performance Indicators Review in Blood Donation Section at Department of Transfusion Medicine.	61st Annual Conference of Indian Society of Hematology & Blood Transfusion (ISHBT) November 2020 HAEMATOCON 2020	05-08 November 2020	Indian Society of Hematology & Blood Transfusion (ISHBT)
6.	Patel M, Wasnik M, Chandrakar R, Verma A, Sharma R, Lahare S, et al.	Trends of Blood Transfusion in Covid and Non-covid Patients: A Comparison	61st Annual Conference of Indian Society of Hematology & Blood Transfusion (ISHBT) November 2020 HAEMATOCON 2020	05-08 November 2020	Indian Society of Hematology & Blood Transfusion (ISHBT)
7.	Lahare S, Wasnik M, Chandrakar R.	A intermediate (AINT) blood group with warm ANTI-A1 antibody: A case report	TRANSCON 2020 Chennai	27-28 February 2021	Indian Society of Blood Transfusion and Immunohematology (ISBTI)

## RESEARCH Funded Projects Ongoing

S. No.	Project	Principal Investigator	Funding Agency	Duration (years)	Start year- End year	Total funds sanctioned (Rs.)
1.	A study on subtypes of Blood Group A at AIIMS, Raipur Chhattisgarh.	Dr. Minal Wasnik	AIIMS, Raipur	1	2021-2022	5 Lakhs

## Departmental Projects Ongoing

S. No.	Projects
1.	Topic: A collaborative project on Implementation Research and Patient Safety Project title: Role of checklist in patient care.
2.	To analyze hemostatic parameters of the platelet and fresh-frozen plasma transfusion among the children during first two years of life and propose best practice recommendations for the age-group.
3.	To analyze the erythrocyte and platelet storage lesions within the stored blood and estimate the coagulopathy potential of Blood transfusions to the multi-transfused patients.
4.	Study of Prevalence of Major Rh (Rhesus) Blood Group System Antigens in Donors at a Tertiary Health Care Centre in Central India.
5.	Evaluation of clinical factors affecting corrected count increment on 1-hour and 24-hour after platelet transfusion.
6.	To Study Multiple Blood Transfusion Recipient Sickle Cell Disease Patient for Allo-Immunization Status

## Collaborative Projects Ongoing

S. No.	Project	Collaborating Department/Institution
1.	To Analyze Hemostatic Parameters Of The Platelet And Fresh-Frozen Plasma Transfusion Among The Children During First Two Years Of Life And Propose Best Practice Recommendations For The Age-Group.	Department of Neonatology; AIIMS, Raipur
2.	To Analyze The Erythrocyte And Platelet Storage Lesions Within The Stored Blood And Estimate The Coagulopathy Potential Of Blood Transfusions To The Multi-Transfused Patients.	Department of Biochemistry Department of Medicine Department of Pediatrics
3.	Rate Of Tooth Movement In Injectable PRP As Compared To Micro-Osteoperforation In Orthodontic Patient – An Open Label Randomised Control Trial.	Department of Dentistry
4.	Role of patient blood management checklist in improvement of patient specific objectives.	Multi-centric study involving AIIMS Raipur, AIIMS Bhubaneswar & AIIMS Mangalagiri.

## PUBLICATIONS

### PUBLICATIONS

1. **S Sharma, S Jondhale, M Patel, A Shukla and A Goel.** To analyse standardization of blood dosage by the body surface area and the effect of blood storage towards the post-transfusion hemoglobin levels within pediatric transfusion recipients. *Vox Sanguinis* 2020; Volume 115,

Supplement 1, December 2020: Learning from Clinical Studies 3C-S07-01 - 3C-S07-05

2. **Wasnik M, Patel M, Chandrakar R, Lahare S, Verma A, Sharma R, Sharma S, et al.** Impact of COVID-19 Pandemic on Blood Transfusion Services: Strategies to Overcome. *Indian J Hematol Blood Transfus* (Nov 2020) 36(Suppl 1):

1-229.

3. **Wasnik M, Prasad D.** Demographic & Blood Group Characteristics of Hospitalized Covid-19: Experience of Private Hospital. Indian J Hematol Blood Transfus (Nov 2020) 36(Suppl 1): 1-229.

4. **Lahare S, Wasnik M, Chandrakar R, Sharma S, Patel M, Thakur J, Sahu M.** Sero-Prevalence of Transfusion Transmitted Infections Among Blood Donors at AIIMS Raipur. Indian J Hematol Blood Transfus (Nov 2020) 36(Suppl 1): 1-229.

5. **Lahare S, Wasnik M, Chandrakar R, Sharma S, Thakur J, Sahu M.** Performance Indicators Review in Blood Donation Section at Department of Transfusion Medicine. Indian J Hematol Blood Transfus (Nov 2020) 36(Suppl 1): 1-229.

6. **Patel M, Wasnik M, Chandrakar R, Verma A, Sharma R, Lahare S, et al.** Trends of Blood Transfusion in Covid and Non-covid Patients: A Comparison. Indian J Hematol Blood Transfus (Nov 2020) 36(Suppl 1): 1-229.

7. **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 Transfus Sci 2021;15, Suppl S1: 16-89.

8. **Lahare S, Gajjar MD, Bhatnagar N, Patel T, Shah M, Wasnik M.** Naturally occurring non-ABO alloantibodies in voluntary blood donors. Asian J Transfus Sci 2020;14:99-101.

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

- Department of Transfusion Medicine and Blood Bank co-organized a workshop on Regenerative Medicine along with the Department of Orthopedics AIIMS Raipur and ISCSGCON 2021 from 13<sup>th</sup> to 14<sup>th</sup> February 2021 at AIIMS Raipur.
- Dr. Sankalp Sharma attended a course on **Online Flow Cytometry Course**; Flow Cytometry: Principles, Applications, Experimental Designing and Data Analysis from 5<sup>th</sup> to 9<sup>th</sup> May 2021.
- The Department actively participated in Indian Stem Cell Study Group Association 4th Biennial International Conference- ISCSGCON 2021 organized by All India Institute of Medical Sciences, Raipur (C.G.). The departmental faculties covered various topics on production and usage of Platelet-Rich Plasma, Platelet-Rich Fibrin, etc.
- To ensure smooth blood supply during lockdown period, we initiated the use of travel passes for the voluntary blood donors. We also adopted the recent guidelines by NBTC/ NACO for donor acceptance/ deferral following COVID-19 recovery/ vaccination.
- Department was registered as one of the reporting center for the ICMR clinical trial for convalescent plasma with Dr. Ramesh Chandrakar as one of the co-investigator for this clinical trial.
- All faculty members of Department of Transfusion Medicine and Blood Bank attended the first online Course on medical education technologies from 22.06.2020 till 20.07.2020.

## PATIENT CARE

FY 2020-21	Blood Units Issued	Blood Donations	RBC Units	Platelet Units	Tests	Number of times blood units issued
Total	5634	3221	2558	1081	3221	397*

\* Number of times blood units issue (data provisional)

## DEPARTMENT OF TRAUMA AND EMERGENCY

### Assistant Professor and In-charge

Dr. Chandan K Dey

### Assistant Professors

Dr. Santosh K Rathia

Dr. Prashant G Badole (From 19.11.2020)

Dr. Shivam Patel (From 17.11.2020)

Dr. Arijit Saha (From 10.12.2020)

### HIGHLIGHTS

The Department had successfully trained total 244 nursing staff in the invasive procedures, emergency drugs, oxygen devices and ventilator functioning in the last year for the efficient functioning at COVID area. First batch of one (01) year certificate course of 'Pre-Hospital Trauma Technician has passed out and successfully completed the training in 2021. Bed side hands-on ultrasound training given to junior residents and interns. 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. A Three years (03) DM/super-specialty course has been started in Pediatric Emergency Medicine (PEM) and first student joined in July 2020. Two faculties from

Department of Trauma and Emergency (Pediatrics) and one faculty from Department of Pediatrics are running the course, all these faculties have completed PEM fellowship under academic college of emergency experts (ACEE). Regular training, teaching and clinical demonstration to junior residents and interns of trauma and emergency. 1205 point care ultrasound has been done during patient management in trauma and emergency. 19,114 patients were registered in department of trauma and emergency in 2020. 1,500 emergency surgical operations done in trauma and emergency operation theater. Residents trained in emergency invasive procedure-percutaneous tracheostomy

### EDUCATION

The Department has hosted the conference cum workshop '7<sup>th</sup> Emergency medicine Pediatric Advances and Recent Trends' on 06<sup>th</sup> December 2020. The department has successfully participated in Internship Induction Programme and delivered training to MBBS interns in Basic Emergency Care (BEC) including BLS with hands-on. Under graduates were taught life saving procedures at real resuscitation bay. Concept and importance of triaging and intubation taught to junior residents, interns and undergraduates. The Department have started academic activity for junior residents and nursing staff in designated seminar room of Trauma and Emergency, at A block, 2<sup>nd</sup> floor. Dr. Santosh K Rathia has completed fellowship in pediatric emergency from ACEE (Academic College of Emergency Experts) in the current year.

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

#### Dr. Varun Anand

S. No.	Title	CME/Conference	Date	Organised By
1.	Pediatric Gastrointestinal Emergency	e-EMPART 2020 7 <sup>th</sup> Emergency Medicine Pediatric Advances and Recent Trends	06.12.2020	Online New Delhi

## PUBLICATIONS

- Rathia SK, Kurrey VK, Shrivastava S, Gupta AK, Phuljhele S. Comparison of intervenous Paracetamol with oral Ibuprofen for medical closure of PDA (patent ductus arteriosus) in preterm newborns – can it be an effective, safe and preferable choice?. Pediatric Rev Int J Pediatr Res. 2021;8(1):29-38. Available Form <https://pediatrics.medresearch.in/index/php/ijpr/article/view/639>

## PATIENT CARE

19,114 patients were registered in department of Trauma and Emergency between April 2020 to March 2021. 1,165 emergency surgical operations were done in trauma and emergency operation theater.

## AWARDS, HONOURS AND SIGNIFICANT EVENTS

- Dr. Santosh K Rathia has passed fellowship in Pediatric Emergency Medicine.
- Dr. Chandan K Dey has enrolled in fellowship in Emergency Medicine.

## Departmental Projects (including thesis/dissertations)

### Ongoing

S. No.	Projects
1.	Evaluation of Efficacy of Ultrasound guided Thoracolumbar Inter-fascial Plane block VS Erector Spinae Plane Block for post-operative analgesia in lumbar Spine surgeries – A comparative, Prospective Randomised controlled clinical trial
2.	Comparison of Histopathological and clinical cause of death at a Tertiary Care Hospital
3.	Assessment of inflammatory biomarkers to evaluate the trend of levels, its prognostic and therapeutic implication in severe COVID-19
4.	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
5.	An assessment of Quality Improvement amongst nursing students in paediatric triaging skills after a structured training at AIIMS, Raipur
6.	Assessment of Knowledge of Nursing officers in Paediatric Triaging: A Multicentre Study
7.	Assessment of Domestic Violence on Men and Impact of Lockdown on it during COVID-19 Pandemic in India: A Survey Based Study
8.	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
9.	Assessment of Spectrum of Preventive Measures Taken By Health Care Providers during COVID-19 Pandemic in India: A Survey Based Study

## Department of Urology

### Associate Professor & In-charge

Dr. Amit R. Sharma

### Assistant Professors

Dr. Deepak Kumar Biswal

Dr. Satyadeo Sharma

Dr. Arvind Kumar (From 08.03.2020)

### HIGHLIGHTS

M.Ch. Urology Programme has been started since June 2020. Renal transplant is scheduled to be started soon. Thirty bedded urology ward (3C2) was inaugurated on 10.03.2021. The department provides a whole range of comprehensive and efficient services for the management of Urological problems. Urology department with Medical Oncology and

Radiation Oncology has started joint meeting for discussion of Uro-Oncological patients. The Department is regularly conducting monthly meeting with department of Nephrology for obstructive uropathy, patient of CKD with stones and patients of CKD requiring vascular access.

### EDUCATION

The department provides training to Senior and Junior Residents in management of major and minor urological procedures and patient care.

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

#### Dr. Amit Sharma

S. No.	Title	CME/Conference	Date	Organised By
1.	Evaluation in metastatic carcinoma prostate	Monthly meeting	17/09/2020	Chhattisgarh Urology Society
2.	Laparoscopic Radical Cystectomy: Illustrated Stepwise	Annual Conference, CUSAC-2021	20.02.2021	Chhattisgarh Urology Society

#### Dr. Deepak Biswal

S. No.	Title	CME/Conference	Date	Organised By
1.	Saphenous vein augmentation urethroplasty	Annual Conference, CUSAC-2021	20.02.2021	Chhattisgarh Urology Society
2.	Lecture on overactive bladder	Monthly meeting	19.03.2021	Raipur menopausal society

## Dr. Satydeo Sharma

S. No.	Title	CME/Conference	Date	Organised By
1.	Hypospadias :review of technique	Annual Conference, CUSAC-2021	20.02.2021	Chhattisgarh Urology Society

## RESEARCH

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

S. No.	Projects
1.	Comparison of Surgical Outcome and Donar Site Morbidity between Everted Great Saphenous Vein Graft Verus Lingual Mucosal Graft use during Substitution Urethroplasty in Male Patients of Anterior Urethral Strictures along with Oral Sub-Mucous Fibrosis : A Randomized, Open Label, Parallel Group Clinical Trial

### Collaborative Project Ongoing

S. No.	Project	Collaborating Department/Institution
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 Bhuwaneswar, AIIMS Rishikesh, AIIMS Jodhpur

## THESIS OF ACEDMIC SENIOR RESIDENTS

S. No.	Name of academic senior resident	Thesis title
1.	<b>Dr. Kishore Roy</b>	Comparative study of PCNL (percutaneous nephrolithotomy) and rirs(retrograde intra renal surgery )for renal stone less than 20mm
2.	<b>Dr. Raghavendra R T</b>	Comparison of Narrow Band imaging with white light imaging in detecting Non muscle invasive bladder cancer-A Randomized control study

## PUBLICATIONS

- 1) 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. doi: 10.1159/000515612.
- 2) **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: Urology Annals; Ahead of Print
- 3) **Sharma A**, Biswal D, Sharma S, Roy S. Gossypiboma: An uncommon but avoidable dreadful complication. Urologia Journal. April 2021. doi:[10.1177/03915603211010636](https://doi.org/10.1177/03915603211010636)
- 4) **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 Journal. June 2021. doi:[10.1177/03915603211022945](https://doi.org/10.1177/03915603211022945).



## PATIENT CARE

April 2019 to March 2020	OPD	IPD	Major OT -197			Minor OT	Emergency Procedures	Office Urological Procedures			
			Open Surgical Procedures	Laparoscopic Procedures	Endourological Procedures			Supra-pubic Cystostomy	PIPE Test	Uroflowmetry	Others
<b>Total</b>	5057	347	38	55	104	310	42	23	18	518	50

The department of Urology has 30 bedded indoor facility at 3B1 3<sup>rd</sup> floor C block of Hospital Building. The department has 2 modular operation theatres in B BLOCK Super-specialty operation theatre complex.

The Department provides OPD Services on Monday, Wednesday and Friday; teleconsultation on every Friday.

### Special Clinics run by the department are as follows:

Monday	<ul style="list-style-type: none"> <li>Female Urology</li> <li>Pediatric Urology</li> </ul>
Wednesday	<ul style="list-style-type: none"> <li>Uro-oncology</li> <li>Men Health Clinic</li> </ul>
Friday	TRUS guided prostate biopsy. Vascular access/CAPD insertion or removal for prerenal transplant patients.
Saturday	Office Urological Procedures.

## Central Library

### HIGHLIGHTS

The Central Library caters to all the faculty members, JR/SR, MBBS as well as B.Sc. Nursing Students. Library has 30 functional computers at present with Wi-Fi facility. It has total no. of Books 9000+ and 850 e-journals. Central library is now fully automated with all possible modern facilities with world class library management system. 3M Library Security system has been installed in the central library. The central library

provides information service to all the teaching departments. The library is open 24x7 from Monday to Saturday, on weekdays and 9.00AM to 9.00PM on Sundays and holidays. The library also has a collection of 550 Hindi books for readers and employees, both technical and non-technical. An average of 150 readers visit the library every day.

### Library Committee

The Central Library is managed by the Library Committee. It advises the Librarian regarding the procurement of books and subscription of periodicals and databases. The present committee consists of the Professor in-charge as Chairperson and 7 other members from various departments and the Librarian as the Coordinator.

#### Library Committee

1	Dr. Eli Mohapatra	Chairperson
2	Dr. Ekta Khandelwal	Member-Secretary
3	Dr. Santhosh Rao	Member
4	Dr. Binu Mathew	Member
5	Dr. Chetan Anand	Member
6	Dr. Pranita	Member
7	Dr. Amritava Ghosh	Member
8	Dr. Jaydeep Nandi	Member

#### Librarians

1	Miss. Pushpalata Bhalla	Librarian Grade-1
2	Mrs. Rashmi Sharma	Librarian Grade-1

**E-Resources Available** - Elsevier Clinical Key complete package, Up-to-date (Anytime, anywhere), The Central Library is member of ERMED consortium provided by the National Medical Library (NML), New Delhi. All E-Resources are accessed through IP enable RemoteXs facility within and outside campus. The library has a plagiarism verification facility for its users and total number of 22 thesis were checked this year.

**RFID Security System is installed in the central library:**

- Book Issue/Return counter: The library has conventional as well as Self Check-in/checkout facility under RFID Technology.
- Book Drop box: keeping in view the requirement of the readers a Book Drop Box to facilitate for returning of book with RFID Technology.
- Touch Screen Monitor: Touch Screen Monitor for the readers at the entrance for quick glance of catalogue.
- The books will be issued through RFID issued Smart Card.

The library uses KOHA software system that supports data entry, retrieval of books and other documents. All documentation/bibliographic services, as well as certain library operations have been computerized, using integrated library management software.

**Newspaper and Magazine Section:**

This section subscribes 16 newspapers and 40 magazines per month in various subjects for satisfying recreational and informational needs of users.

**Orientation and information literacy programs**

Library conducts orientation and informative literacy programs from time to time for its users.

**This year subscription includes:-**

- UpToDate database Service:-
- Elsevier Clinical Key
- Remote XS Service
- iThenticate Plagiarism verification service
- Grammarly Premium-EDU from Bridge People

**Central Library Services:**

List of new additions, Circulation Services, Reference Services, News Paper Clipping Services, Book Reservation Service, Books Exhibition Service, User Awareness Programs, Remote Access facility, Wi-Fi Internet Facility. Central Library and e-library section is also used for Tele-OPD and On-line classes for Faculties and doctors during Covid-19 pandemic.

**Conferences /Seminars/Meeting/Training Programme attended by Staff-**

S. No.	Title	CME/Conference	Date	Organised By
1.	Attended the live webinar Challenges	Issues and opportunities for Health Science Libraries/Librarian	02.06.2020	EBSCO Information Service
2.	Participated in a Multidisciplinary National Webinar	Covid 19 Vocal for self-reliant India	27.06.2020	Gurukul Mahila Mahavidyalaya, Rapur

S. No.	Title	CME/Conference	Date	Organised By
3.	Participated in National webinar	Accessibility of Knowledge Resources and e- learning management during Covid-19	17.07.2020	University Library Chhattisgarh Kamdhenu Vishvidyalaya, Durg in association with Information Publishing Limited, Bangalore
4.	Participated in the live webinar	Digital Preservation and Management, Emerging Trends in Libraries	22.07.2020	Organized by EBSCO Information Service

#### Awards:-

Miss. Pushpalata Bhalla, Librarian Grade-1 awarded for excellent work in the Central Librarian the occasion of Republic Day 26.01.2021.

### Institute Ethics Committee (as on 31<sup>st</sup> March 2021)

S. 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	Associate 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 Pediatrics, AIIMS, Raipur	Male
5	Advocate Shekhar 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. Ravi-shankar Shukla University, Raipur	Male
7	Mr. Rahul Ganesh Damke	B.E. (Civil)	Lay Person	Project Head, Mosiac Infraventures Pvt. Ltd., C/o Shri Govind Prasad Verma, Near Kendriya Jal Ayog, Badabhawani nagar, Kota, Raipur	Male
8	Dr. Vijay M. Motghare	M.B.B.S. M.D. (Pharmacology)	Basic Medical Scientist	Professor & Head, Department of Pharmacology, GMC, Nagpur (Maharashtra)	Male
9	Dr. Keshao Nagpure	M.B.B.S. M.D. (Medicine)	Clinician	Assistant Professor, Department of Medicine, AIIMS Raipur	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	Associate 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	Justice T. K. Jha,	B.Com, DBM, LLB	Legal Expert	Retired District Judge, District Court Raipur	Male
15	Mr. Arun Shukla	B.A.	Lay Person	Secretary, Maruti Life Style, Kota, Raipur	Male

**The following are the additional members of the Ethics Committee:**

01	Dr. Amit Sharma	M.B.B.S., M.S., MCh (Urology)	Clinician	Associate Professor, Dept. of Urology, AIIMS, Raipur	Male
02	Dr. Ashutosh Tripathi,	B.H.M.S., MD (Homeopathy)	Clinician AYUSH	Medical Officer (Homeopathy) AIIMS, Raipur	Male

**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	04 before and + 04 after approval=8	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=9	20	292
<b>Total</b>	<b>794</b>	<b>777</b>	<b>01</b>	<b>09</b>	<b>28</b>	<b>160</b>	<b>586</b>

\* Including Faculty, SR, PG thesis, DNB, Ph. D, PDCC, DM/MCH, MPH, Nursing and ICMR-STC projects.

**IEC Meetings held during 2020-21**

**Total no. of meeting held during 2020-21:** Eight (08) – full board and Seven (07) Sub – committee meeting.

**Details of meetings held**

Date of Meeting	No. of research projects reviewed*	Approved	Rejected	Exemption	Terminated	Sent for revision
23.04.2020	71 (71 new)	68	00	01	00	02
01.05.2020 (sub-committee meeting)	02 (02 new)	02	00	00	00	00

Date of Meeting	No. of research projects reviewed*	Approved	Rejected	Exemption	Terminated	Sent for revision
08.05.2020	11 (11 new)	11	00	00	00	00
12.06.2020	17 (16 new, 01 revised)	16	00	00	00	01
10.07.2020 (sub-committee meeting)	10 (10 new)	09	00	01	00	00
31.07.2020	39 (37 new, 02 revised)	37	00	00	00	02
29.08.2020 (sub-committee meeting)	05 (05 new)	05	00	00	00	00
19.09.2020	26 (24 new, 02 revised)	24	00	02	00	00
07.11.2020	52 (52 new)	49	00	02	01	00
27.11.2020 (sub-committee meeting)	03 (03 new)	02	00	00	00	01
23.12.2020 (sub-committee meeting)	02 (02 New)	00	00	00	00	02
16.01.2021	53 (48 new, 05 revised)	52	00	00	00	01
12.02.2021 (sub-committee meeting)	03 (03 New)	02	00	00	00	01
19.02.2021 (sub-committee meeting)	03 (02 New, 01 revised)	03	00	00	00	00
20.03.2021	41 (40 New, 01 revised)	36	00	00	00	05

\* Including Faculty, SR, PG thesis, DNB, Ph. D, PDCC, DM/MCH, MPH, Nursing and ICMR-STC projects.

### IEC decision on projects reviewed during 2020-21 (as on 31.03.2021)

Total no. of project reviewed	326
Total no. of project approved	314
Total no. of project Exempted	06
Total no. of project rejected	00
Total no. of project for revision	05
Total no. of project Terminated	01 (terminated during review)

### Status (Ongoing/Completed/Terminated) during 01.04.2020 to 31.03.2021

Total no. of ongoing projects (as on 31.03.2021)	292 (586)
Total no. of completed projects	20 (160)
Total no. of Terminated	09 (28)
Total no. of Rejected	00 (01)
Total no. of projects sent for revision	05 (09)
<b>Total no. of projects</b>	<b>326 (794)</b>

Note – Number in bracket indicates the cumulative figure.

### Details of approved research projects during 2020-21 (as on 31.03.2021)

Total no. of funded projects (Extramural projects) including ICMR STS	62
Total no. of funded projects (Intramural projects)	24

### Details of approved Extramural funded projects (N=62)

Total no. Pharmaceutical industry sponsored projects	23
Total no. Government agency & other sponsored projects	39



## Details of Academic projects (N=297)

Total no. undergraduate research projects (including ICMR-STs)	12 (11 funded by ICMR)
Total no. postgraduate research projects (PG Thesis)	90
Total no. DNB research projects (from other institute having MoU with IEC)	08
Total no. PDCC research projects	04
Total no. DM/MCH research projects	09
Total no. MPH research projects	05
Total no. Faculty research projects (Investigator initiated)	158
Total no. Nursing research projects	11

## Serious Adverse Events (SAEs) and deaths SAEs reported at our site

Total no. of Serious Adverse Events (SAEs)	31
Total no. of deaths SAEs	16

### IEC Office Address

#### Institute Ethics Committee

Academic Section,  
Room No. 2103, 2<sup>nd</sup> Floor,  
Medical College Complex, Gate No. 5,  
All India Institute of Medical Sciences,  
Tatibandh, GE Road,  
Raipur-492 099 (CG)

Email: [iec@aiimsraipur.edu.in](mailto:iec@aiimsraipur.edu.in)

## SCHOOL OF PUBLIC HEALTH

### Course Co-ordinator for Master of Public Health Course:

Dr. Abhiruchi Galhotra

### HIGHLIGHTS

The School of Public Health (SPH), AIIMS Raipur, successfully entered the second year of its establishment with a fresh intake of 6 candidates in 2020-21. Two students of Batch 2019 i.e., Ms Snehlata and Dr Kritika Vaishnav, won the Kayakalp Appreciation Award for hygiene promotion.

SPH collaborated with the Nephrology department, AIIMS Raipur and State Health Department (CG) to observe World Kidney Day and organized various events for three days (8-9-10 March 2021). The first day included hands-on training on “Prevention of Catheter-Related Bloodstream infection” for all dialysis technicians across the state & the second day comprised a workshop on “Peritoneal dialysis” for HCPs from various districts of

Chhattisgarh. The event concluded on the third day, with an awareness program on “Living well with kidney disease,” inaugurated by Prof (Dr) Nitin M Nagarkar; Director & CEO, AIIMS Raipur. Professor (Dr.) Vivekanand Jha, World-renowned Nephrologist & Executive Director, The George Institute for Global Health, India; was the guest of honor. The department also organized a Poster-making competition and indoor games during the event.

Continuing advocacy for covid appropriate behavior, the department organized health promotion activities in the OPD registration area of AIIMS, Raipur, twice a week for patients & their attendants. Advocacy sessions were also organized on World Oral Health Day (20/3/21), World TB Day (22/3/21 & 25/3/21).

### EDUCATION

Adhering to the MoHFW curriculum for 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, visit 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 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 2020-21, 163 lectures, eight guest lectures, 48 seminars, 29 webinars, 31 journal clubs, four field visits, nine health education campaigns have been conducted. There have been seven publications and participation in 2 CMEs by students & faculty of the department.

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.

## Institute Research Cell

First Institute Research Cell (IRC) functioned from 15.01.2015 to 15-05-2019 .The revised Institute Research Cell(IRC) was formed on 16-05-2019. Further, partial reconstitution of IRC committee members were done on 24-07-2019, 22-02-2020 and on 06-05-2020.

Sl. No	Name and Designation	Department	Designation at IRC
1.	Dr. Ramanjan Sinha, Professor and Head	Physiology	Chairperson
2.	Dr. Manisha Ruikar, Professor and Head	Community & Family	Member
3.	Dr. Anil K Goel, Professor and Head	Pediatrics	Member
4.	Dr. Sajal De, Professor and Head	Pulmonary Medicine	Member
5.	Dr. Anudita Bhargava, Professor & Head	Microbiology	Member
6.	Dr. Nandkishore Agrawal, Professor & Head	Anaesthesiology & Critical	Member
7.	Dr. Nitin R Gaikwad, Additional Professor	Pharmacology	Member
8.	Dr. Vijay K Konuri, Additional Professor	Anatomy	Member
9.	Dr. Neeta Misra, Additional Professor	Ophthalmology	Member
10.	Dr. Rachita Nanda, Additional Professor	Biochemistry	Member
11.	Dr. Pushpawati Thakur, Associate Professor	Obstetrics & Gynaecology	Member
12.	Dr. Preetam Wasnik, Associate Professor	General Medicine	Member
13.	Dr. Santhosh Rao, Associate Professor	Dentistry	Member
14.	Dr. Arvind K Shukla, Assistant Professor	Community & Family	Member (Statistician)
15.	Dr. Sai Krishna Tikka, Assistant Professor	Psychiatry	Member Secretary

### Intramural Research Proposal Details

- Proposals reviewed by First IRC (Jan 2015- March 2019) - **97**
- Proposals reviewed by Revised IRC (April 2019- March 2020) - **69**

FY 2020-21		Amount (Rs)
<b>Total Proposals reviewed</b>	<b>168</b>	
No of reviews done by Reviewers	302	
Left/Rejected/ Not Accepted/ Withdrawn	04	
Awaiting approval	20	
<b>Approved</b>	<b>144</b>	
<b>Non-funded</b>	116	
Randomised Controlled Trials	12	
Funded	28	<b>1,09,81,906.00</b>
Randomised Controlled Trials	5	17,70,000.00
Other projects	23	92,11,906.00

**Coronavirus pandemic related research activities :** During the FY under consideration, coronavirus pandemic raged across the country. So several research projects were undertaken to explore epidemiological and other health related data for the state and the country. A total of 69 Intramural proposals were received and 67 were approved. The funded projects applied amounted to Rs.28,70,000/- out of which funds worth Rs.23,70,000/- were sanctioned.

**Patents :** Seventeen patents has been granted to AIIMS, Raipur till date and ten new patents filed was filed in 2020-21.

**MoUs of AIIMS, Raipur with other Organizations/Institutions**

S.No.	Institute /Organization
<b>Till 2019</b>	
1	Indian Institute Management, Raipur
2	National Institute of Technology, Raipur
3	Department of health research (VRDL Laboratory)
4	Govt. of Chhattisgarh, to establish Rural Health Training Center
5	Govt. of Chhattisgarh, to establish Urban Health Training Center
6	UNICEF - Centre for Excellence - Severe Acute Malnutrition
<b>Completed in FY 2020-2021</b>	
1	MMI Narayana, Raipur
2	National Institute of Siddha, Chennai (NIS)
3	National Institute of, Unani Medicine - Bengaluru
4	National Institute of Homeopathy, Kolkata
5	Central Council for Research in Yoga and Naturopathy – New Delhi
6	AMITY University, Raipur and AIIMS, Raipur
<b>Initiated in FY 2020-21</b>	
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

## Activities

- The IRC has held six Meetings in the year and reviewed 18 presentations which were RCTs or as desired by the reviewers. The comments therein were forwarded to the respective Principal Investigators.
- Documentation and Webpage Sub Committee has documented more than 1100 entries with regard to faculty research in terms of number of projects completed / ongoing and list of publications from FY 2016-17 onwards.
- Research Logistics Sub Committee has procured Statistical software with 50 licenses and subsequently training was imparted to faculties of AIIMS, Raipur on the use of the software.
- Research Policies Sub Committee has formulated the detailed SOP of IRC and it is on the process of finalization. In addition, 8 MoUs were drafted and executed in the year under review with premier national and state educational institutes to encourage research communications along with teaching and patient care smoothly.
- Research Orientation Program Sub Committee organized a Research Orientation Program for First Year Postgraduate students from June 1 - 9, 2020 where lessons on various aspects of Research Methodology were imparted. Also, a guest lecture was organized on 'Ethics in Medical Research' which was delivered by Prof (Dr.) Nalin Mehta, Professor, Department of Physiology, AIIMS New Delhi, on 1<sup>st</sup> February, 2021.

## ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR (CHHATTISGARH)

### Balance Sheet as on 31/03/2021

	SCHEDULES	Current Year 2020-21	Previous Year 2019-20
<b>A) CORPUS/ CAPITAL FUND AND LIABILITIES</b>		₹	₹
Corpus/ Capital Fund	<b>1</b>	9,54,50,07,713.20	8,70,35,10,752.57
Reserves and Surplus	<b>2</b>	-	-
Earmarked/ Endowment Funds	<b>3</b>	-	-
Secured Loans and Borrowings	<b>4</b>	-	-
Unsecured Loans & Borrowings	<b>5</b>	-	-
Deferred Credit Liabilities	<b>6</b>	-	-
Current Liabilities and Provisions	<b>7</b>	46,94,31,422.44	1,11,65,96,224.44
<b>TOTAL</b>		<b>10,01,44,39,135.64</b>	<b>9,82,01,06,977.01</b>


<b>B) ASSETS</b>			
Fixed Assets	<b>8</b>	7,89,69,67,212.82	7,55,36,49,689.46
Investments- From Earmarked/ Endowment Funds	<b>9</b>	-	-
Investments- Others	<b>10</b>	-	-
Current Assets' Loans' Advances Etc.	<b>11</b>	2,11,74,71,922.82	2,26,64,57,287.55
Miscellaneous Expenditure		-	-
(to the extent not written off or adjusted)		-	-
<b>TOTAL</b>		<b>10,01,44,39,135.64</b>	<b>9,82,01,06,977.01</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: 31.05.2021  
Place: Raipur, C.G.

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR (CHHATTISGARH)**

**Income & Expenditure Account for the year ended 31/03/2021**

Particulars	SCHEDULES	Current Year 2020-21	Previous Year 2019-20
<b>INCOME</b>			
		₹	₹
Income from Sales/ Services	12	5,58,24,531.19	12,10,36,167.47
Grants/ Subsidies	13	3,29,00,00,000.00	2,67,97,00,000.00
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	2,15,39,066.00	1,82,35,553.00
Other Income	18	18,98,05,277.80	10,28,33,308.65
Increase/ (decrease) in stock of finished goods and work-in-progress	19	-	-
Excess Provision Made in FY 2018-19		-	27,52,547.00
Net Prior Period Income		-	
<b>TOTAL (A)</b>		<b>3,55,71,68,874.99</b>	<b>2,92,45,57,576.12</b>

EXPENDITURE		₹	₹
Establishment Expenses	20	1,93,11,35,701.00	1,75,19,17,897.00
Other Administrative expenses etc.	21	1,14,85,84,736.84	87,11,19,084.56
Expenditure on Grants, Subsidies etc.	22	15,86,103.00	11,66,202.00
Interest	23	-	-
Depreciation (Net Total at the year-end-corresponding to Schedule)	8	84,92,31,069.00	47,88,69,683.00
Expenses Under Swachhata Action Plan		70,27,305.00	12,89,322.00
Prior Period items		2,81,06,999.52	55,08,28,008.56
<b>TOTAL (B)</b>		<b>3,96,56,71,914.36</b>	<b>3,65,51,90,197.12</b>

Balance being excess of Expenditure over Income, this is indication of Deficit (A-B)		(40,85,03,039.37)	(73,06,32,621.00)
Transfer to Special Reserve (Specify each)		-	-
Transfer to / form General Reserve		-	-
<b>BALANCE BEING SURPLUS/ (DEFICIT) CARRIED TO CORPUS/ CAPITAL FUND</b>		<b>(40,85,03,039.37)</b>	<b>(73,06,32,621.00)</b>

**SIGNIFICANT ACCOUNTING POLICIES AS PER SCHEDULE 24  
CONTINGENT LIABILITIES AND NOTES ON ACCOUNT AS PER SCHEDULE 25**

  
**B.K. AGRAWAL**  
**FINANCIAL ADVISOR**

  
**Prof. (Dr.) NITIN M. NAGARKAR**  
**DIRECTOR & CEO**

## ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR (CHHATTISGARH)

RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31/03/2021							
S.N.	RECEIPTS	Current Year	Previous Year	S.N.	PAYEMENTS	Current Year	Previous Year
		2020-21	2019-20			2020-21	2019-20
		₹	₹			₹	₹
I	<b>Opening Balance</b>			I	<b>Expenses</b>		
	a) Cash in Hand	16,23,892.00	2,55,584.00		a) Establishment Expenses	1,91,59,23,206.00	1,64,60,77,407.00
	b) Bank Balances				b) Administrative Expenses	1,10,20,20,170.08	78,14,86,486.09
	i) In Current Accounts	2,05,42,86,000.70	1,73,13,20,995.21		c) Expenses Under Swachhata Action Plan	70,27,305.00	1,00,99,110.00
II	<b>Grant Received</b>				d) Others		
	a) From Government of India				Net Contingent Advance Paid	24,48,901.50	93,60,322.32
	GIA General	1,21,00,00,000.00	87,69,00,000.00		Net Imprest Money Paid	86,76,783.00	39,98,839.00
	GIA Salaries	2,06,00,00,000.00	1,77,28,00,000.00		Net LTC Paid	18,98,935.00	23,10,437.00
	GIA Capital	1,25,00,00,000.00	70,51,00,000.00		Tour Advance Paid	52,000.00	45,98,001.00
	GIA General (Swachhata Action Plan)	2,00,00,000.00	3,00,00,000.00		Special Festival Advance	5,02,124.00	-
III	GIA Received for AIIMS Mangalagiri	1,46,01,28,472.00	93,94,22,926.00		Contingent Advance under Ayushman	-	20,000.00
IV	GIA Received for AIIMS Nagpur	1,54,68,49,186.00	98,50,52,037.00		Contingent Advance under Kayakalp	98,400.00	74,550.00
V	Income on Investments	-	-		Contingent Advance against Extramural Fund	11,68,314.00	49,85,949.00
VI	<b>Interest Received</b>				Scholarship Paid	-	900.00
	a) On Bank Account	2,15,71,605.00	1,51,21,015.00		Contingent Advance (Intramural)	9,54,873.00	-
	b) Interest received but refundable to MoHFW earned on GIA	8,05,78,859.00	10,00,36,085.00		Contingent Advance SAP Imprest Advance (Ayushman)	54,015.00	1,97,231.00
VII	<b>Other Receipt</b>				Imprest Advance (Special Fund)	10,000.00	-
	Receipts From Hospital	5,34,99,789.83	8,34,77,389.47		PM Care Fund	40,24,988.00	-
	Admission Fees, Entrance Fees, Application Fees, Examination Fees, Other Receipt	22,84,646.36	3,71,91,757.00	II	<b>Payment made under Extramural Fund</b>	32,75,478.00	18,90,937.00
	Tender Related Receipt	4,59,000.00	2,71,590.00	III	<b>Investments and deposits made</b>		
	Security deposit	20,90,592.00	11,36,821.00		a) Out of Earmarked/ Endowment funds	-	-
	Earnest Money deposit (EMD)	2,04,17,321.00	2,50,11,222.00		b) Out of Own Funds	-	-
	Penalty Receipt from (SR)/R/PG Students etc.]	59,37,097.00	72,20,378.00	IV	<b>Expenditure on Fixed Assets &amp; Capital Work- in Progress</b>		
	Received from Gym	-	9,700.00		a) Payment for Purchase of Fixed Assets	58,47,18,359.92	31,76,50,865.02
	Receipts from Forfeiture of /EMD/FDR	4,45,651.80	-		b) Payment to contractors for Work in Progress	8,36,620.00	28,23,58,363.00
	Rent Received	-	2,86,240.00	V	<b>Refund of Surplus money/ Loans</b>		
	Donation under ARPAN	1,41,429.00	1,77,86,863.60		a. EMD released (Net)	2,04,57,279.00	1,92,62,903.00
	Income Tax Refund	72,29,769.00	-		b. Security Deposit released	22,09,818.00	1,27,55,085.00
	Net Amount received under Oriana	-	50,000.00		c. Withheld	-	22,41,006.00
	General Damage Receipt	-	25,090.00	VI	<b>Other Payments</b>		
	Refund of Excess Salary Paid	-	2,16,924.00		a) TDS/ VAT/ Labour Cess/ Work Contract Tax, etc.	21,47,37,145.00	20,00,42,778.00
	Receipt from Mess Committee for TDS	-	2,49,625.00		b) Advances to Contractor	-	-
	Receipt from VRDL for TDS	26,76,338.00	1,37,743.00		c) Financial Assistance for CME/ Workshop	3,59,865.00	9,45,081.00
	Receipt from Library	65,315.00	-		d) Liquidity Damage refunds	-	684.00
	Contingent Advance (Ayushman Bharat)	12,155.00	-		e) Donation Paid to CRPF (Bharat Ke Veer Fund)	-	19,239.00
	Receipt From AIIMS, Patna	8,39,902.00	-				



RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31/03/2021							
S.N.	RECEIPTS	Current Year	Previous Year	S.N.	PAYMENTS	Current Year	Previous Year
		2020-21	2019-20			2020-21	2019-20
		₹	₹			₹	₹
	Notice Period Recovery from Staff	41,92,951.00	30,19,552.00		f) Net Payment for Mess Committee	95,504.00	-
	Receipt from Guest House	2,08,015.00	2,05,960.00		g) Payment made against advance deposited by patient	7,50,000.00	-
	Misc. Receipt	3,386.00	1,59,574.00	VII	<b>Amount Paid to AIIMS Mangalagiri &amp; Nagpur</b>		
	License Fee deposited in cash	33,210.00	34,020.00		GIA release for AIIMS Mangalagiri	1,45,18,11,946.00	99,19,92,708.00
	Recovery of Excess Children Education Allowance paid	-	26,020.00		GIA release for AIIMS Nagpur	1,61,25,75,045.00	94,01,19,420.00
	Others	33,139.00	-		Payment made to Vendors	-	-
VIII	Ayushman Bharat Claims Receipts	13,96,34,557.00	4,89,96,989.05		Net TDS Receivable from Bank of India	-	1,000.00
IX	Extramural Fund	3,04,12,814.00	2,90,94,468.00	VIII	Intramural Funds	6,58,580.00	16,77,900.00
X	Advance deposited by Patient	-	11,29,048.00	IX	<b>Payment under Provision Made</b>		
XI	Income from Sale of Scrap	1,80,400.00	-		Learning Resource Allowance	-	2,50,00,000.00
XII	Interest Received from Income Tax Refund	15,220.00	-		Electricity Charges	1,01,08,720.00	88,67,980.00
XIII	Prior Period Income	1,540.00	-	X	Bills Payable to other than Employee	28,60,968.00	1,12,37,509.00
				XI	Advance to Contractor/ Supplier/ Consultant	50,75,00,962.00	7,65,62,973.00
				XII	Interest Refunded to MoHFW	65,48,95,492.00	-
				XIII	<b>Closing Balances</b>		
					a) Cash in Hand	7,06,038.00	16,23,892.00
					b) Bank Balances		
					i) In Current Accounts	1,96,69,10,107.19	2,05,42,86,000.70
	<b>TOTAL</b>	<b>10,07,53,30,252.69</b>	<b>7,41,17,45,556.33</b>		<b>TOTAL</b>	<b>10,07,53,30,252.69</b>	<b>7,41,17,45,556.33</b>


  
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**ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR (CHHATTISGARH)**  
**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31/03/2021**

<b>SCHEDULE [1] CORPUS/ CAPITAL FUND</b>		
<b>Particulars</b>	<b>Current Year 2020-21 ₹</b>	<b>Previous Year 2019-20 ₹</b>
Balance as at the beginning of the year	8,70,35,10,752.57	4,82,15,47,779.57
Add: Contribution towards corpus/ capital fund	1,25,00,00,000.00	70,51,00,000.00
Add: GIA-Capital From MoHFW directly transfer for packages		3,90,74,95,594.00
Add/(Deduct): Balance of net income/ (expenditure) transferred from the income and Expenditure Account	(40,85,03,039.37)	(73,06,32,621.00)
Add:- Prior Period Items (Expenditure is overbooked in Previous Year)	-	-
Less:- TDS receivable from CSPDCL for F.Y. 2013-14 to 2016-17	-	-
<b>BALANCE AT THE YEAR-END</b>	<b>9,54,50,07,713.20</b>	<b>8,70,35,10,752.57</b>

<b>SCHEDULE [2] RESERVE &amp; SURPLUS</b>		
<b>Particulars</b>	<b>Current Year 2020-21 ₹</b>	<b>Previous Year 2019-20 ₹</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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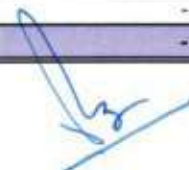
**ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR (CHHATTISGARH)  
SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31/03/2021**

<b>SCHEDULE [3] EARMARKED/ ENDOWMEN FUNDS</b>		
<b>Particulars</b>	<b>Current Year 2020-21 ₹</b>	<b>Previous Year 2019-20 ₹</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 addition (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>	-	-



**B.K. AGRAWAL  
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**ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR (CHHATTISGARH)**  
**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31/03/2021**

SCHEDULE [4] SECURED LOANS AND BORROWINGS:				
Particulars	Current Year 2020-21		Previous Year 2019-20	
	₹		₹	
a) Central Government		-		-
b) State Government (Specify)		-		-
c) Financial Institutions				
i) Term Loans	-		-	
ii) Interest accrued and due	-	-	-	-
d) Banks:				
i) Term Loans	-		-	
Interest accrued and due	-		-	
ii) Other Loans (Specify)	-		-	
Interest accrued and due	-	-	-	-
e) Other Institutions and Agenices	-	-		-
f) Debenture and Bonds	-	-		-
g) Others (Specify)	-	-		-
<b>Total</b>		-		-

Note: Amounts due within one year



**B.K. AGRAWAL**  
**FINANCIAL ADVISOR**



**Prof. (Dr.) NITIN M. NAGARKAR**  
**DIRECTOR & CEO**

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR (CHHATTISGARH)  
SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31/03/2021**

<b>SCHEDULE [5] UNSECURED LOANS AND BORROWINGS</b>		
<b>Particulars</b>	<b>Current Year 2020-21 ₹</b>	<b>Previous Year 2019-20 ₹</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>	<b>-</b>	<b>-</b>

Note: Amounts due within on year

<b>SCHEDULE [6] DEFERRED CREDIT LIABILITIES</b>		
<b>Particulars</b>	<b>Current Year 2020-21 ₹</b>	<b>Previous Year 2019-20 ₹</b>
a) Acceptances secured by hypothecation of capital equipment and other assets	-	-
b) Others	-	-
<b>Total</b>	<b>-</b>	<b>-</b>

Note: Amounts due within one year



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DIRECTOR & CEO**

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR (CHHATTISGARH)  
SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31/03/2021**

<b>SCHEDULE [7] CURRENT LIABILITIES AND PROVISIONS</b>				
<b>Particulars</b>	<b>Current Year 2020-21</b>		<b>Previous Year 2019-20</b>	
	<b>₹</b>		<b>₹</b>	
<b>A) CURRENT LIABILITIES</b>				
i) Acceptances			-	-
ii) Sundry Creditors			-	-
a) For Goods			-	-
b) Others				
AA Foundation for Safety	-		1,60,738.00	
ADS Diagnostic Ltd., New Delhi	15,008.00		-	
Adarsh Enterprises	-		31,173.00	
Ahluwalia Contractor (I) Ltd.	1,03,477.00		1,03,477.00	
Amrit Pharmacy	3,31,385.00		1,70,785.00	
Aleem Khan	-		2,000.00	
Anurag Sales & Services	-		11,400.00	
AP Scanner	1,17,740.00		27,870.00	
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	
Bedi & Bedi Associates	-		2,01,701.00	
BV Enterprises	14,312.00		41,792.00	
BVG India Ltd.	-		1,55,407.00	
Continnum Electro Product	-		1,00,000.00	
C-Net Infotech Pvt. Ltd.	-		42,723.00	
Creat Business Inc.	-		3,530.00	
Corp Meditech Pvt. Ltd.	2,46,896.00		2,46,896.00	
DHR Holding Company	-		4,27,694.00	
Diamond Agencies	-		28,598.00	
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		-	
EMCO Tech Equipment Pvt. Ltd.	-		3,94,868.00	
Fianxo International LLP, Agra	2,43,040.00		-	
Getinge Medical Pvt. Ltd., Mumbai	65,832.00		-	
Global Enterprises, Raipur	14,626.00		-	
HLL Lifecare Limited	-		6,675.00	
Hi- Solution Pest Control	-		1,950.00	
Hetachi Healthcare, Jabalpur	18,889.00		-	
Hites, Delhi	84,234.00		-	
Indian Surgical System	2,36,950.00		2,36,950.00	

SCHEDULE [7] CURRENT LIABILITIES AND PROVISIONS				
Particulars	Current Year 2020-21		Previous Year 2019-20	
	₹		₹	
<b>A) CURRENT LIABILITIES</b>				
Instromedix India P. Ltd., Delhi	22,535.00		-	
Jupiter Healthcare	-		37,000.00	
Johnson Lifts Pvt. Ltd.	-		39,398.00	
Jeevika Enterprises	-		37,400.00	
Jai Durga Traders, Raipur	24,095.00		-	
Jolly Technocrats	24,045.00		-	
JP Motors, Raipur	12,012.00		-	
Kone Elevator India Pvt. Ltd.	-		7,603.00	
Karl Storz Endoscopy India P Ltd.	27,343.00		-	
Konsole India Communications P Ltd.	23,364.00		-	
LSR Medical Pvt. Ltd.	17,14,852.00		17,14,852.00	
Medical Product Services	50,70,600.00		50,70,600.00	
Marrsis Disha, Haryana	23,990.00		-	
Mediglobe Medical Systemes (P) Ltd.	5,50,049.00		400.00	
Mundhra Marketing	-		12,678.00	
Mediline Surgicals	1,10,880.00		1,10,880.00	
Midmark India P Ltd.	2,064.00		-	
Novomed Incorporation Pvt. Ltd.	-		15,000.00	
Nuovi Pharmaceuticals, Raipur	38,880.00		-	
Pharma Deal	85,877.00		85,877.00	
Prakhar Enterprises	1,49,400.00		-	
Rahul Tour & Travels Jagdalpur	74,708.00		74,708.00	
Red Cross Society	56,100.00		56,800.00	
Rishi Impex, Raipur	7,326.00		-	
RS Maintainance Service and Pest Control	-		28,702.00	
R K Trading, Raipur	38,096.00		-	
Roche Diagnostics India P Ltd, Kolkata	1,26,000.00		-	
Rose Enterprises	2,49,800.00		-	
Safeguard & Manpower Services	-		1,01,150.00	
Scientific Traders	3,82,817.00		26,973.00	
Spectrum Corporation	-		2,246.00	
Shristi Enterprises	-		2,211.00	
South India Surgical Co. Ltd.	-		13,388.00	
Shri Vaishnavi Enterprises	23,400.00		23,400.00	
State Appropriate Authority PNTD Raipur	-		12,500.00	
Senior Post Master Raipur	17,918.00		17,918.00	
Saatvik Sales & Services	24,775.00		-	
Sadariya International, Gujrat	40,012.00		-	

SCHEDULE [7] CURRENT LIABILITIES AND PROVISIONS				
Particulars	Current Year 2020-21		Previous Year 2019-20	
	₹		₹	
<b>A) CURRENT LIABILITIES</b>				
Science House Medicals P Ltd.	1,62,284.00		-	
Shivansh Enterprises	1,75,230.00		-	
Shree Narayan Medico Surgical	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		-	
Span Healthcare Pvt. Ltd.	22,068.00		22,068.00	
S P Enterprises, Kolkata	14,175.00		-	
Starkey Laboratories India P Ltd., UP	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		-	
Tata Docomo	-		2,600.00	
Terumo Penpol P Ltd, Thiruvananthapuram	24,480.00		-	
Tiwari Enterprises, Delhi	18,374.00		-	
Thermo Fisher Scientific India P Ltd.	-		47,971.00	
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		-	
VM Healthcare	-		2,02,514.00	
Veer Traders	68,458.00		-	
Vision Enterprises	24,976.00		-	
Vodaphone	334.00		334.00	
VR Enterprises, Jaipur	9,400.00		-	
Vraj Tour & Travels	55,473.00		55,473.00	
Yashraj Marketing, Raipur	44,000.00	1,26,92,462.00	-	1,02,92,899.00
<b>Employee related liabilities</b>				
a) Security deposit Employee	4,51,160.00		6,99,160.00	
b) Bill Payable to Employees	13,03,266.00		3,67,509.00	
c) Othes	7,72,020.00	25,26,446.00	5,014.00	10,71,683.00
<b>Bills Payable to other then Employees</b>				
	1,07,822.00	1,07,822.00	1,07,822.00	1,07,822.00



SCHEDULE [7] CURRENT LIABILITIES AND PROVISIONS				
Particulars	Current Year 2020-21		Previous Year 2019-20	
	₹		₹	
<b>A) CURRENT LIABILITIES</b>				
c) Withhold Amount due to Non- Achivement of Milestone from Contractor	24,22,692.00	24,22,692.00	24,22,692.00	24,22,692.00
d) Withheld for maintainance of Street light	55,856.00	55,856.00	55,856.00	55,856.00
iii) Secured Advance to Contractor / Suppliers			-	-
<b>vi) Statutory Liabilities</b>				
a) TDS on GST				
i) CGST	11,96,380.00		2,95,214.00	
ii) SGST	11,96,380.00		2,95,214.00	
iii) IGST	16,22,166.00		12,38,654.00	
b) TDS Payable on Other than Salary	1,001.00		69,570.00	
c) Work Contract Tax Payable	-		-	
d) Labour Cess Payable	1,91,298.00		22,329.00	
e) TDS Payable on Salary	24,401.00		6,08,425.00	
f) Value Added Tax Payable	-	42,31,626.00	-	25,29,406.00
<b>v) Other current Liabilities</b>				
a) Special / Extramural Fund Received	3,64,30,180.44	3,64,30,180.44	2,19,37,361.44	2,19,37,361.44
b) Security deposit Vendor	2,16,64,209.00	2,16,64,209.00	2,34,13,686.00	2,34,13,686.00
c) Earnest Money Deposit	2,52,00,585.00	2,52,00,585.00	3,01,80,718.00	3,01,80,718.00
d) Advance depositd by Patients	4,88,683.00	4,88,683.00	20,64,683.00	20,64,683.00
<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	
Dev Travel Car Rental Services	-		567.00	
Cubes Media & Branding Pvt. Ltd.	17,218.00		17,218.00	
Service Master Clean Ltd.	48,915.00		48,915.00	
RS Maintainance Services & Pest Control	-	22,91,218.00	8,611.00	23,00,396.00
<b>2) Withheld other</b>				

SCHEDULE [7] CURRENT LIABILITIES AND PROVISIONS				
Particulars	Current Year 2020-21		Previous Year 2019-20	
	₹		₹	
<b>A) CURRENT LIABILITIES</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.	10,25,640.00		10,25,640.00	
Globus Infocom Ltd.	4,16,174.00		4,16,174.00	
R.S. Maintenance Services	2,000.00		2,000.00	
Shree Sai Services	10,000.00		10,000.00	
Punjilloyd L Ltd.	1,00,000.00		1,00,000.00	
Ahluwalia Contractor	24,602.00		24,602.00	
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	3,84,647.00		3,84,647.00	
Manohar Lal Gawri	3,34,219.00		3,34,219.00	
Sanjari Construction	3,76,333.00		1,11,121.00	
Voltas Ltd.	14,83,358.00		8,72,564.00	
BVG India Ltd.	1,83,700.00		1,37,775.00	
Mali Payment	81,268.00		31,185.00	
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		-	
Aptech Ltd.	13,37,180.00		-	
Varad Corporation	20,085.00		-	
Midmark India P Ltd.	4,52,306.00		-	
Siemens Healthcare P Ltd, Gurgaon	24,86,850.00		-	
First Construction	56,134.00		-	
ADS Diagnostic Ltd., New Delhi	8,19,744.00		-	
Safeguard & Manpower Services	1,01,150.00		-	
Fortune Buildcon, Raipur	10,000.00		-	
Shree Krishna Green Estate	1,33,464.00	<b>2,78,27,428.00</b>	-	<b>1,37,19,755.00</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>	-	<b>5,88,661.00</b>
<b>4) Withheld for EOT</b>				
Anil Mathani	1,50,000.00		1,50,000.00	
Print Vision, Nagpur	25,569.00	<b>1,75,569.00</b>	-	<b>1,50,000.00</b>

SCHEDULE [7] CURRENT LIABILITIES AND PROVISIONS				
Particulars	Current Year 2020-21		Previous Year 2019-20	
	₹		₹	
<b>A) CURRENT LIABILITIES</b>				
<b>5) Withheld for Rectification</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.	18,50,000.00		17,50,000.00	
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>28,10,000.00</b>	60,000.00	<b>27,10,000.00</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>	-	<b>68,17,573.00</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	78,793.00	<b>3,57,577.00</b>	78,793.00	<b>3,57,577.00</b>
<b>14) Withheld Uniform Washing Allowance</b>				

<b>SCHEDULE [7] CURRENT LIABILITIES AND PROVISIONS</b>				
<b>Particulars</b>	<b>Current Year 2020-21 ₹</b>		<b>Previous Year 2019-20 ₹</b>	
<b>A) CURRENT LIABILITIES</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>	25,03,346.00	<b>25,03,346.00</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>21) Withheld for Recovery from</b>				
Sterling & Wilson P Ltd.	-	-	44,400.00	<b>44,400.00</b>
<b>22) Withheld for Finalization of LD</b>				
Hitech Audio System P Ltd.	12,75,952.00		-	
Learn Nature Construction	2,63,218.00	<b>15,39,170.00</b>	-	-
<b>23) Withheld against commissioning of video wall system</b>				
Hitech Audio System P Ltd.	9,01,891.00	<b>9,01,891.00</b>	-	-
<b>f) CG Government</b>	102.00	<b>102.00</b>	100.00	<b>100.00</b>
<b>g) GIA AIIMS NAGPUR</b>				
GIA Nagpur (Capital)	2,31,651.00		1,19,76,996.00	
GIA Nagpur (General)	11,41,95,808.00		6,98,41,999.00	
GIA Nagpur (Salary)	(10,13,075.00)	<b>11,34,14,384.00</b>	(26,78,752.00)	<b>7,91,40,243.00</b>
<b>h) GIA AIIMS MANGALAGIRI</b>				
GIA Mangalagiri (Capital)	(9,95,397.00)		(9,95,397.00)	
GIA Mangalagiri (General)	4,32,34,427.00		3,49,17,901.00	
GIA Mangalagiri (Salary)	-	<b>4,22,39,030.00</b>	-	<b>3,39,22,504.00</b>
<b>i) Recovery as per Labour Report</b>				
	-	-	4,800.00	<b>4,800.00</b>
<b>j) 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>vi) Interest Refundable to MoHFW</b>				

SCHEDULE [7] CURRENT LIABILITIES AND PROVISIONS				
Particulars	Current Year 2020-21		Previous Year 2019-20	
	₹		₹	
<b>A) CURRENT LIABILITIES</b>				
Interest earned on BDI Current Plus A.C. (965420110000157) Operation	8,03,38,887.00	8,03,38,887.00	65,46,55,520.00	65,46,55,520.00
vii) PM Cares Fund	1,15,083.00	1,15,083.00	-	-
<b>TOTAL (A)</b>		<b>39,03,88,824.44</b>		<b>89,32,11,247.44</b>

<b>B) PROVISIONS</b>				
i) For Taxation	-	-	-	-
ii) Gratuity	-	-	-	-
iii) Superannuation/ Pension	-	-	-	-
iv) Accumulated Leave Encashment	-	-	-	-
v) Trade Warranties/ Claims	-	-	-	-
vi) Electricity Exp.	1,04,40,740.00	1,04,40,740.00	1,01,08,720.00	1,01,08,720.00
vii) External Remittance	(2,20,099.00)	(2,20,099.00)	4,59,532.00	4,59,532.00
viii) NPS Payable	76,98,794.00	76,98,794.00	79,93,375.00	79,93,375.00
ix) Salary Payable	9,58,819.00	9,58,819.00	15,44,10,528.00	15,44,10,528.00
x) Telephone Exp.	1,75,668.00	1,75,668.00	1,28,720.00	1,28,720.00
xi) CAG Audit Fees Payable	1,60,000.00	1,60,000.00	2,00,000.00	2,00,000.00
xii) Childeren Education Allowance Payable	75,00,000.00	75,00,000.00	50,00,000.00	50,00,000.00
xiii) Learning Resource Allowance Payable	2,40,00,000.00	2,40,00,000.00	2,30,00,000.00	2,30,00,000.00
xiv) General Provident Fund	2,83,28,676.00	2,83,28,676.00	2,20,84,102.00	2,20,84,102.00
<b>TOTAL (B)</b>		<b>7,90,42,598.00</b>		<b>22,33,84,977.00</b>

<b>GRAND TOTAL (A+B)</b>	<b>46,94,31,422.44</b>	<b>1,11,65,96,224.44</b>
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**B.K. AGRAWAL**  
FINANCIAL ADVISOR



**Prof. (Dr.) NITIN M. NAGARKAR**  
DIRECTOR & CEO

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR (CHHATTISGARH)  
SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31/03/2021**

**SCHEDULE [B] FIXED ASSETS AS ON 31/03/2021**

S.N.	PARTICULARS	GROSS BLOCK			DEPRECIATION BLOCK			NET BLOCK			
		Cost valuation As at Beginning of the Year	Additions during the year	Deduction During the year	Cost/ Valuation at the Year-End	As at the Beginning of the Year	Additions during the year	Deduction During the year	Total up to the Year-End	As at the Current Year End	As at the previous Year End
1	LAND	100.00	-	-	100.00	-	-	-	100.00	100.00	100.00
2	BUILDING	5,104,078,026.00	120,257,801.00	-	5,224,335,827.00	240,675,497.00	497,629,215.00	738,304,712.00	4,486,031,115.00	4,261,402,529.00	4,261,402,529.00
3	FURNITURE & FIXTURES	186,361,107.00	30,250,137.00	-	216,611,244.00	41,004,019.00	16,604,440.00	59,608,467.00	157,002,777.00	141,357,088.00	141,357,088.00
4	OFFICE EQUIPMENT	12,247,031.00	3,637,128.00	-	15,884,157.00	3,949,804.00	1,656,888.00	5,606,692.00	10,277,465.00	8,597,227.00	8,597,227.00
5	COMPUTER	39,069,443.00	13,372,526.00	-	52,441,969.00	30,421,592.00	8,895,019.00	39,316,611.00	13,125,358.00	8,647,801.00	8,647,801.00
6	ELECTRIC INSTALLATIONS	480,379,068.00	46,561,267.00	-	526,940,335.00	29,323,982.00	49,607,881.00	76,781,843.00	448,160,992.00	451,305,086.00	451,305,086.00
7	PLANTS & MACHINERY	1,836,105,227.29	686,668,452.22	394,868.00	2,512,378,811.51	587,304,897.00	273,971,525.00	861,276,222.00	1,451,102,589.51	1,236,800,530.29	1,236,800,530.29
8	BOOKS	26,208,048.00	-	-	26,208,048.00	24,685,328.00	609,088.00	25,294,416.00	913,632.00	1,522,720.00	1,522,720.00
9	MOTOR VEHICLE	2,590,376.00	-	-	2,590,376.00	876,878.00	257,025.00	1,133,903.00	1,456,473.00	1,713,498.00	1,713,498.00
	<b>TOTAL RUPEES</b>	<b>7,677,038,426.29</b>	<b>900,749,609.22</b>	<b>394,868.00</b>	<b>8,577,393,367.51</b>	<b>960,091,797.00</b>	<b>849,231,069.00</b>	<b>1,809,322,866.00</b>	<b>6,768,070,501.51</b>	<b>6,716,546,629.29</b>	<b>6,716,546,629.29</b>

CAPITAL WORK-IN PROGRESS DURING THE YEAR 2019-20										
WIP Assets	836,703,060.17	578,849,622.00	236,655,970.86	1,128,896,711.31	-	-	-	-	1,128,896,711.31	836,703,060.17
WIP Academic/ Admin Block	128,571,278.00	9,134,766.00	117,906,044.00	-	-	-	-	-	-	128,571,278.00
WIP Residential Phase-II	249,602,400.00	500,000,000.00	-	749,602,400.00	-	-	-	-	-	249,602,400.00
WIP 3M Library Security System (Medical College)	3,566,868.00	636,800.00	-	4,203,668.00	-	-	-	-	-	3,566,868.00
WIP School of Public Health (Medical College)	-	3,409,728.00	-	3,409,728.00	-	-	-	-	-	-
WIP 1B Lab	3,198,918.00	369,402.00	-	3,568,320.00	-	-	-	-	-	3,198,918.00
Payment Made to Hill in WIP	4,950,413.00	15,098,326.00	98,749,926.86	20,049,329.00	-	-	-	-	348,063,256.31	4,950,413.00
	446,813,183.17	-	-	348,063,256.31	-	-	-	-	348,063,256.31	446,813,183.17
<b>TOTAL</b>										<b>7,896,967,212.82</b>

  
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SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31/03/2021**

<b>SCHEDULE [9] INVESTMENTS FROM EARMARKED/ ENDOWMENT FUNDS</b>		
<b>Particulars</b>	<b>Current Year 2020-21 ₹</b>	<b>Previous Year 2019-20 ₹</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 2020-21 ₹</b>	<b>Previous Year 2019-20 ₹</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 31/03/2021**

<b>SCHEDULE [11] CURRENT ASSETS, LOANS, ADVANCES ETC.</b>				
<b>Particulars</b>	<b>Current Year 2020-21</b>		<b>Previous Year 2019-20</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) AIIMS, Patna	-	-	28,20,000.00	
ii) Mess Committee	95,504.00	95,504.00	-	28,20,000.00
<b>2 Others</b>				
i) Rent Receivable				
a) Seema Agency	35,780.00		35,780.00	
b) Amul Parlour	(1,97,524.00)		3,13,528.00	
ii) VRDL	17,26,951.80		42,167.00	
iii) Broadcast Engineering Consultants	-	15,65,207.80	10,513.00	4,01,988.00
<b>3 Statutory Dues Receivable</b>				
i) TDS Receivables on account of deduction made by CSPDCL				
a) For Financial Year 2018-19	-		4,14,450.00	
b) For Financial Year 2019-20	-		13,364.00	
ii) TDS Receivables on account of deduction made by CG Trousim Board	-		60,000.00	
iii) TDS Receivables on account of deduction made by Bank of India	-		58,90,743.00	
iv) TDS Receivables on account of deduction made by Indian Oil Corporation	-		1,271.00	
v) TDS Receivables on account of deduction made by Raipur Development Authority	-		3,000.00	
vi) TDS Receivable on account of deduction made by State Health Resource Centre.	-	-	6,000.00	63,88,828.00
<b>c) Cash balances in hand (including cheques and imprest)</b>	7,06,038.00	7,06,038.00	16,23,892.00	16,23,892.00




SCHEDULE [11] CURRENT ASSETS, LOANS, ADVANCES ETC.				
Particulars	Current Year 2020-21		Previous Year 2019-20	
	₹		₹	
<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	1,31,84,42,514.14		1,63,17,80,963.47	
b) Bank of India Current Plus A/c No. 936320110000024	41,32,94,533.40		35,14,77,852.10	
c) State Bank of India (ARPAN) A/c No. 36721449858	1,77,10,222.52		1,78,29,115.60	
d) Ayushman Bharat (A/c No.: 936320110000307)	17,65,22,503.49		5,05,51,357.53	
e) State Bank of India (Pension & PF Fund) 39381410389	2,81,87,514.64	<b>1,95,41,57,288.19</b>	-	<b>2,05,16,39,288.70</b>
<b>On deposit Accounts( including margin money)</b>	-	-	-	-
<b>On Saving Account</b>				
a) Bank of India (Research Grant) A/c No. 936310110005302	1,27,52,819.00	<b>1,27,52,819.00</b>	26,46,712.00	<b>26,46,712.00</b>
<b>2 With Non-Scheduled Banks</b>				
<b>On Current Accounts</b>	-	-	-	-
<b>On deposit Accounts( including margin money)</b>	-	-	-	-
<b>On Saving Account</b>	-	-	-	-
<b>e) Post office- Savings Account</b>	-	-	-	-
<b>f) Advances &amp; Security Deposits</b>				
<b>1) Advances to Contractors/ Vendors</b>				
HSCC (I) Ltd.	4,01,628.00		4,01,628.00	
Adprayas, Raipur	3,113.00		-	
BPL Medical Technologies, Delhi	2,402.00		-	
Elite Trading Co., Delhi	6,042.00		-	
Godrej & Boyce Mfg. Co. Ltd.	8,112.00		-	
Intec India Ltd., Delhi	7,781.00		-	
Linde India Ltd, Orissa	24,313.00		-	
Mohan Poddar, Raipur	50,083.00		-	
Sai Associates, Durg	11,180.00		-	
Security and Intelligence Services	4,600.00		-	
Shivam Publicity, Raipur	14,400.00		-	
Shri B Gopa Kumar	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	
NICSI	-		8,14,000.00	
National Institute of Technology	-		4,87,000.00	
Advance to HLL for PICU	4,70,13,600.00		4,70,13,600.00	
Advance to HLL for NICU	-		4,51,39,250.00	
BL Kashyap and Sons Ltd. (Interim Advance)	4,63,94,443.00		5,29,38,145.00	
HLL Lifecare Ltd. (Under SAP)	1,00,99,110.00		1,00,99,110.00	
HLL Lifecare Ltd. (For PCR Kit)	57,50,000.00		57,50,000.00	

SCHEDULE [11] CURRENT ASSETS, LOANS, ADVANCES ETC.				
Particulars	Current Year 2020-21		Previous Year 2019-20	
	₹		₹	
Punjloyd Ltd. (Interim Advance)	1,19,68,602.00		1,19,68,602.00	
Pushkar Gokulka	4,91,528.00		4,91,528.00	
Ultra Tech Laboratories Pvt. Ltd.	7,500.00		7,500.00	
Winglobe Healthcare P. Ltd. Bangalore	31,800.00		-	
Voltas Ltd. (Interim Advance)	53,14,701.00	12,80,12,807.13	53,14,701.00	18,08,24,893.13
<b>2) Other Advances</b>				
Contingent Advances	27,10,306.75		55,21,186.25	
Contingent Advance (Extramural Fund)	22,35,949.24		26,06,425.24	
Imprest Money	1,51,295.00		9,01,891.00	
LTC Advances	1,90,300.00		18,430.00	
LTC & EL Advance (Cash Package)	14,89,868.00		-	
Tour Advances	10,67,526.00		20,75,413.00	
Contingent Advance (SAP)	-		94,080.00	
Financial Assistance for CME/ Workshop	(60,924.00)		3,61,606.00	
Imprest Money (Ayushman)	2,311.00		-	
Imprest Money (Special Fund)	10,000.00		-	
Advance Salary	82,888.00		28,718.00	
Contingent Advance (Ayushman)	-		20,000.00	
Contingent Advance (Kayakaip)	98,400.00		40,000.00	
Contingent Advance (Intramural)	7,79,903.00		-	
Special Festival Advance	5,02,124.00		-	
Advance to ORIANA Fest.	-	92,59,946.99	-	1,16,67,749.49
<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	94,06,194.71	53,91,349.71	54,06,194.71
<b>4) Mobilization Advance (Credit Balance)</b>				
			-	-
<b>5) Intramural Fund Balance</b>				
	2,59,927.00	2,59,927.00	23,92,936.52	23,92,936.52
<b>6) Secured Advance to Contractor Supplier</b>				
	12,56,190.00	12,56,190.00	6,44,805.00	6,44,805.00
<b>TOTAL</b>		<b>2,11,74,71,922.82</b>		<b>2,26,64,57,287.55</b>

Note: Amounts due within one year

  
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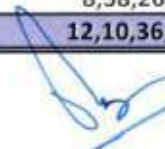
  
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<b>SCHEDULE [12] INCOME FROM SALES/ SERVICES</b>			
<b>Particulars</b>	<b>Current Year</b>		<b>Previous Year</b>
	<b>2020-21</b>		<b>2019-20</b>
	<b>₹</b>		<b>₹</b>
<b>a) Income from Sales</b>			
i) Sale of Finished Goods	-		-
ii) Sale of Raw Material	-		-
iii) Sale of Scrape	-		-
<b>b) Income from Services</b>			
<b>i) Receipts From Medical College</b>			
a) Admission Fees	17,89,555.00		13,34,056.00
b) Entrance Fees	4,30,702.36		3,53,12,289.00
c) Examination Fees	27,360.00		36,395.00
d) Student Transcript Fee	10,500.00		4,000.00
e) Other Receipts	6,529.00		5,23,256.00
<b>ii) Receipts From Hospital</b>	5,35,59,884.83		8,38,26,171.47
<b>Total</b>	<b>5,58,24,531.19</b>		<b>12,10,36,167.47</b>



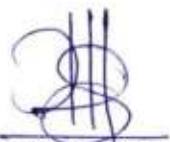
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<b>SCHEDULE [13] GRANTS/ SUBSIDIES</b>		
<b>Particulars</b>	<b>Current Year 2020-21 ₹</b>	<b>Previous Year 2019-20 ₹</b>
(Irrevocable grants & Subsidies Received)		
a) Central Government (Ministry of Health & Family Welfare))		
i) Grants-in-Aid (Salary)	2,06,00,00,000.00	1,77,28,00,000.00
ii) Grants-in-Aid (General)	1,21,00,00,000.00	87,69,00,000.00
iii) Grants-in-Aid (Creation of Capital Assets)	1,25,00,00,000.00	70,51,00,000.00
iv) Grants-in-Aid (Swachhata Action Plan) (General)	2,00,00,000.00	3,00,00,000.00
b) State Government	-	-
c) Government Agencies	-	-
d) Institutions/ Welfare Bodies	-	-
e) International Organisations	-	-
f) Others (specify)	-	-
<b>Total</b>	<b>4,54,00,00,000.00</b>	<b>3,38,48,00,000.00</b>



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<b>SCHEDULE [14] FEES/ SUBSCRIPTIONS</b>		
<b>Particulars</b>	<b>Current Year 2020-21 ₹</b>	<b>Previous Year 2019-20 ₹</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>2020-21 ₹</b>	<b>2019-20 ₹</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 2020-21 ₹</b>	<b>Previous Year 2019-20 ₹</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 2020-21 ₹</b>	<b>Previous Year 2019-20 ₹</b>
<b>a) On Term deposits :</b>		
i) With Scheduled Banks	2,13,49,945.00	1,61,52,199.00
ii) With Non Scheduled Banks	-	-
iii) With Institutions	-	-
iv) Others	-	-
<b>b) On Saving Accounts:</b>		
i) With Scheduled Banks	1,75,901.00	19,476.00
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>	-	20,63,878.00
<b>e) Interest Receipt from Mobilization Advances</b>	-	-
<b>f) Prior Period Interest Income</b>	-	-
<b>g) Interest received from Income Tax Refund</b>	13,220.00	-
<b>Total</b>	<b>2,15,39,066.00</b>	<b>1,82,35,553.00</b>



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<b>SCHEDULE [18] OTHER INCOME</b>		
	<b>Current Year 2020-21 ₹</b>	<b>Previous Year 2019-20 ₹</b>
<b>a) Profit on Sale/ disposal of Assets</b>		
i) Sale of Scrap	1,82,885.00	-
<b>b) Licence Fees</b>	31,54,072.00	15,91,796.00
<b>c) Tender Fees</b>	4,59,000.00	2,71,090.00
<b>d) Miscellaneous Income</b>		
i) Liquidated Damage	1,67,29,313.00	45,51,101.00
ii) Notice Period Recovery from Staff	41,92,951.00	30,19,552.00
iii) Forfiture of SD/EMD/FDR	4,45,651.80	-
iv) Received from Guest House	2,08,015.00	2,05,960.00
v) Other	3,92,884.00	1,58,982.00
vi) Received from Gym	-	9,700.00
vii) General Damage	1,64,571.00	1,43,596.00
viii) Penalty Receipts	62,13,866.00	75,61,062.00
ix) Receipt from Labour Charges Collection	11,363.00	13,005.00
x) Receipt from Postal Order deposits/RTI Fee	3,386.00	2,445.00
xi) Non Performance Charges	-	1,06,95,000.00
xii) Demmorage Charges	1,26,451.00	-
xiii) Receipt From Library	65,315.00	-
<b>e) Rent</b>	1,97,075.00	13,95,359.00
<b>f) Receipt in ARPAN Fund</b>	2,91,029.00	1,78,61,813.60
<b>g) Employee Health Scheme</b>	72,17,800.00	63,45,858.00
<b>h) Kayakalp Award Money Receipt</b>	-	-
<b>i) Donation from Chhattisgarh Rajya Gramin bank for VAN</b>	-	-
<b>j) Ayushman Bharat Claim Receipts</b>	13,96,34,557.00	4,89,96,989.05
<b>k) Discount Received</b>	-	10,000.00
<b>l) Unclaimed Creditors</b>	13,75,494.00	-
<b>m) Unclaimed Earnest Money Deposits</b>	50,35,175.00	-
<b>n) Unclamed Security Deposits by Vendor's</b>	28,63,483.00	-
<b>o) Income Tax Refund Received</b>	8,40,941.00	-
<b>Total</b>	<b>18,98,05,277.80</b>	<b>10,28,33,308.65</b>



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<b>SCHEDULE [19] INCREASE/ (DECREASE) IN STOCK IN FINISHED GOODS</b>		
<b>Particulars</b>	<b>Current Year 2020-21 ₹</b>	<b>Previous Year 2019-20 ₹</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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<b>SCHEDULE [20] ESTABLISHMENT EXPENSES</b>			
<b>Particulars</b>	<b>Current Year</b>		<b>Previous Year</b>
	<b>2020-21</b>		<b>2019-20</b>
	<b>₹</b>		<b>₹</b>
Salaries, wages	1,09,10,86,055.00		1,06,53,07,776.00
Allownces	72,43,02,467.00		59,33,80,610.00
Contribution to New Pension Scheme	9,40,60,648.00		8,22,12,550.00
Leave Salary and Pension Contribution for deputed Officer/Faculty	75,13,612.00		33,18,719.00
Staff welfare expenses	-		-
Others (Leave Travel Concession)	1,21,72,919.00		76,98,242.00
Gratuity	20,00,000.00		-
<b>Total</b>	<b>1,93,11,35,701.00</b>		<b>1,75,19,17,897.00</b>




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<b>SCHEDULE [21] OTHER ADMINISTRATIVE EXPENSES ETC.</b>		
<b>Particular</b>	<b>Current Year 2020-21 ₹</b>	<b>Previous Year 2019-20 ₹</b>
Electricity and Power	12,57,68,267.00	12,83,17,427.29
Repair and Maintenance	5,10,35,209.00	1,96,42,060.00
Advertisement	90,74,491.00	1,79,87,690.00
Telephone	42,51,175.00	27,63,351.00
Postal charges	1,73,512.70	2,76,114.75
Printing and Stationary	1,17,04,794.18	1,01,05,300.00
Training & Development Expenses	-	2,48,377.00
Entertainment expenses	5,11,992.00	1,88,075.00
Meeting Expenses	31,80,147.34	23,99,344.40
Outsourcing expenses	39,60,70,118.00	30,81,53,547.00
Learning Resource Allowances	2,40,00,000.00	2,30,63,128.00
Medicine & Consumables	40,12,31,855.84	21,83,05,228.75
Travelling	59,29,014.00	1,86,29,705.00
Conference/Seminar Registration Expenses	40,016.00	9,38,702.00
Software Maintenance Expenses	9,89,057.00	10,02,335.00
Electrical Maintenance Expenses	64,04,644.00	57,56,555.00
Food Supply Patient	4,19,86,025.00	1,94,46,153.00
Books, News Paper, Magazines	1,53,19,339.70	29,53,419.76
Office Expenses	5,92,587.00	3,82,435.60
Garbage Disposal Expenses	82,96,912.00	10,20,950.00
Rent & Hire Charges	68,44,946.00	60,09,437.00
Fuel Charges	13,43,204.00	5,86,030.00
Professional Legal & Statutory Charges	24,49,755.00	5,38,50,979.00
Audit Expenses	1,60,000.00	2,00,000.00
Bank Charges	1,64,870.14	12,42,997.51
Insurance	1,75,155.00	33,375.00
Computer Repair & Maintenance	1,27,310.00	47,060.00
Examination Expenses for various recruitment	1,13,57,094.00	63,97,602.00
Electricity Additional Loading Charges	9,44,000.00	5,000.00
Municipal Taxes	38,35,800.00	38,22,860.00
Admission fees (Transfer/Refund)	3,027.00	-
Price Distribution Expenses	2,34,000.00	32,040.00
Stipend Paid to Students	36,21,533.00	35,51,843.00
Consumables (General)	98,14,183.94	1,33,34,384.50
Freight Expenses	-	34,626.00
Book Allowance	1,13,517.00	1,35,952.00
Licence Fee for LMO	-	2,55,000.00
Bag Allowance	2,67,490.00	-
Emolument Paid Under Intramural Fund	5,19,293.00	-
Lease Rent Expenses	2.00	-
Fixed Assets Not Usable	50,400.00	-
<b>Total</b>	<b>1,14,85,84,736.84</b>	<b>87,11,19,084.56</b>

  
**B.K. AGRAWAL**  
**FINANCIAL ADVISOR**

  
**Prof. (Dr.) NITIN M. NAGARKAR**  
**DIRECTOR & CEO**

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR (CHHATTISGARH)**  
**SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNTS AS ON 31/03/2021**

<b>SCHEDULE [22] EXPENDITURE ON GRANTS, SUBSIDIES ETC.</b>			
Particular	Current Year 2020-21		Previous Year 2019-20
	₹		₹
a) Grants given to Institution/ Organisations	-		-
b) Subsidies given to Institutions/ Organisations	-		-
c) Expenses Under Kayakalp Award Money Receipt	15,86,103.00		11,66,202.00
<b>Total</b>	<b>15,86,103.00</b>		<b>11,66,202.00</b>

<b>SCHEDULE [23] INTEREST</b>			
Particular	Current Year 2020-21		Previous Year 2019-20
	₹		₹
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 01.04.2020 TO 31.03.2021**

UTILIZATION DETAILS		
Particular		Current Year 2020-21 ₹
<b>Opening Balance of Grants</b>		
GIA- Salary	43,076,388.00	<b>545,520,313.52</b>
GIA- General	62,357,644.99	
GIA- Creation of Capital Assets	362,804,756.53	
GIA- Creation of Capital Assets (Non Recurring)	350,000.00	
GIA- General (Swatchhata Action Plan)	76,931,524.00	
<b>(+) Grant Received During The Year</b>		
GIA- Salary	2,060,000,000.00	<b>4,540,000,000.00</b>
GIA- General	1,210,000,000.00	
GIA- Creation of Capital Assets	1,250,000,000.00	
GIA- Creation of Capital Assets (Non Recurring)	-	
GIA- General (Swatchhata Action Plan)	20,000,000.00	
<b>(-) Utilization During the Year</b>		
GIA- Salary	1,931,135,701.00	<b>4,307,955,540.20</b>
GIA- General	1,148,584,736.84	
GIA- Creation of Capital Assets	1,221,207,797.36	
GIA- Creation of Capital Assets (Non Recurring)	-	
GIA- General (Swatchhata Action Plan)	7,027,305.00	
<b>Unspent Balance on Grants</b>		
GIA- Salary	171,940,687.00	<b>777,564,773.32</b>
GIA- General	123,772,908.15	
GIA- Creation of Capital Assets	391,596,959.17	
GIA- Creation of Capital Assets (Non Recurring)	350,000.00	
GIA- General (Swatchhata Action Plan)	89,904,219.00	

  
**B.K. AGRAWAL**  
**FINANCIAL ADVISOR**

  
**Prof. (Dr.) NITIN M. NAGARKAR**  
**DIRECTOR & CEO**

## SCHEDULE- 24

### SIGNIFICANT ACCOUNTING POLICIES AND NOTES TO ACCOUNTS AS ON 31.03.2021

#### A. ACCOUNTING CONVENTION

- The financial statement are prepared on the basis of historical cost convention, unless otherwise stated and on the accrual method of accounting. The expenses/capitalization of fixed assets are booked on the basis of sanction order for payment.

#### B. INVESTMENTS

- No investment made during the year ended on 31<sup>st</sup> March 2021.

#### 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 in previous financial years but put to use date are provided in financial year 2020-21, depreciation is charged from the financial year of put to use date.
- Assets which are purchased or created in financial year 2020-21 but no put to use dates are provided, management has taken date of purchase as date of acquisition 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 ₹ 2,83,28,676.00 is to be transferred in above bank account as shown in Schedule-7.



**B.K. AGRAWAL**  
**FINANCIAL ADVISOR**



**Prof. (Dr.) NITIN M. NAGARKAR**  
**DIRECTOR & CEO**

**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 31.03.2021 are follow:-

LC Number	Beneficiary Name	Currency	Opening Value in foreign currency	Outstanding value in INR
9350FLCDP210001	AD Instruments PTY Ltd	USD	14120.00	10,35,420.00
9357FLCDP180007	M/S SAKURA FINTEK EURPOE BV	EUR	34869.80	28,13,644.00
9357FLCDP190011	Olympus Corporation	JPY	1715000.00	16,32,435.00
9357FLCDP190012	Mr Global(HK) Ltd	USD	7635.00	5,46,284.00
9357FLCDP190017	Mr Global(HK) Ltd	USD	12832.50	3,09,648.00
9357FLCDP200002	Medtronic Trading NL BV	USD	31207.00	22,57,202.00
9357FLCDP200005	Mr Global(HK) Ltd	USD	21588.00	3,85,939.00
9357FLCDP200018	MERIVAARA CORP. PUUSTELLINTIE	EUR	144287.59	1,73,520.00
<b>Total</b>				<b>91,54,092.00</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	2020-21	2019-20
i.	Purchase of Finished Goods	Nil	Nil
ii.	Raw Material & Components (Including in Transit)	Nil	Nil
iii.	Capital Goods	₹ 9,63,34,656.32	₹13,80,38,765.00
iv.	Stores, Spares and Consumables/Software renewal	₹ 1,42,44,633.70	₹20,12,224.76

#### E. Bank Guarantee/ FDR Detail

PSD in the form of Bank Guarantee and FDR kept in AIIMS, Raipur as on dated 31.03.2020 is as below:-

S.N.	Department	Amount in Crore
1	Project Cell for Packages/DPR Works	51,56,13,280.00
2	Project Cell for Non-DPR Works	57,51,573.00
3	Administration	3,49,96,872.00
4	Stores Central	3,34,63,624.00
5	Stores Hospital	1,07,64,960.00
6	Security Department	1,62,69,973.00

Along with above Administration department, AIIMS Raipur has \$39975.00 USD 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 31.03.2021 and Income and Expenditure for the year ended on the date.
3. Amount received in various Bank Accounts of AIIMS, Raipur worth of ₹ 30,136.00 for which Management of the Institute is not sure, from where the amount has been received are transferred to "Other Income" under the head **Indirect Income**. Similarly the Institute has the amount received of ₹ 49,68,683.00 in various Bank Accounts, the details of which are presently not available with the Management, has been transferred to "Special Fund (other)" under the head **Current Liability**.
4. Amount transferred from WIP to Fixed Assets are as under :-

S.No.	Fixed Assets Head	Amount in ₹
1	Building	2,34,10,799.00
2	Electrical Fittings & Appliances	3,71,81,163.00
3	Furniture & Fixtures	5,08,040.00
4	Medical Equipment & Tools	1,34,21,291.86
5	Plant & Machinery	1,69,20,690.00
6	Software	56,69,284.00
	<b>Total</b>	<b>9,71,11,267.86</b>

5. Amount transferred from advance to party for construction of NICU (Neonatal Intensive Care Unit) to Building account by ₹ 4,51,39,250.00.
6. 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	3,39,22,504.00	1,46,01,28,472.00	1,49,40,50,976.00	1,45,18,11,946.00	4,22,39,030.00
AIIMS Nagpur	7,91,40,243.00	1,64,68,49,186.00	1,72,59,89,429.00	1,61,25,75,045.00	11,34,14,384.00

7. 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, 2021 and April, 2021 was released in the month of April, 2021, as being done in Government Organization.
8. During the Financial Year the Institute has refund the Interest earned on GIA upto 31.03.2019 amounting to ₹ 65,46,55,520.00 into the Consolidated Fund of India.
9. Cash in hand as on 31.03.2021 as per books of accounts is Rupees 7,06,038.00 which is under reconciliation.
10. During the Financial year the Institute has acquired two pieces of lands from the Government of Chhattisgarh as below:-
  - a) 50 acres lease hold land for 30 years at the rate of ₹ 1.00, acquired on 23.12.2020 at Naya Raipur C.G.
  - b) 10 acres lease hold land vide Khasra No.: 664/2 for 30 years at the rate of ₹ 1.00, acquired on 14.08.2020 at Kurud, Dist: Dhamtari, C.G.

**G. COMPLIANCE OF SAR OBSERVATIONS FOR FINANCIAL YEAR 2019-20.**

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	50,35,175.00
2	Security Deposits Vendor's	28,63,483.00
3	Unclaimed Creditors	13,75,494.00
<b>Total</b>		<b>92,74,152.00</b>

  
**B.K. AGRAWAL**  
 FINANCIAL ADVISOR

  
**Prof. (Dr.) NITIN M. NAGARKAR**  
 DIRECTOR & CEO

**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 2021.**

We have audited the attached Balance Sheet of All India Institute of Medical Sciences (AIIMS), Raipur as on 31 March 2021, the Income and Expenditure Account and the Receipt and Payment Account for the year ended on that date under Section 19 (2) of the Comptroller and Auditor General's (Duties, Powers and Conditions of Service) Act, 1971. These financial statements are the responsibility of AIIMS' 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 and 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 disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluation of the overall presentation of financial statements. We believe that our audit provides a reasonable basis for 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 Receipt and Payment 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 account and other relevant records have been maintained by AIIMS, Raipur in so far as it appears from our examination of such books.

(iv) We further report that:--

## **A. Balance Sheet**

### **A.1 Sources of Funds**

#### **A.1.1 Current Liabilities and Provisions (Schedule-7) – ₹ 46.94 crore**

**A.1.1.1** This does not include ₹ 187.77 crore being unspent balance of grants-in-aid (excluding interest of grant). This resulted in understatement of Current Liabilities by ₹ 187.77 crore and overstatement of Corpus Fund/Capital Fund by the same amount. This was also pointed out in previous SARs.

**A.1.1.2** This does not include ₹ 18.89 crore<sup>1</sup> being provisions were not made for different expenses pertaining to current year. This resulted in understatement of Current Liabilities and Provisions by ₹ 18.89 crore and understatement of Expenditure by the same amount.

**A.1.1.3** This includes ₹ 71.63 lakh being extra liability created for extramural funds. Since, item no. v(a)- other current liabilities includes ₹ 2,51,30,648 being the liability made specifically for extramural funds instead of ₹ 1,79,67,856 (the actual fund balance available/liability for various extramural funds). This resulted in overstatement of Current Liabilities & Provisions by ₹ 71.63 lakh and understatement of Corpus/Capital Fund by same amount.

### **A.2 Application of Funds**

#### **A.2.1 Fixed Assets (Schedule-8)- ₹ 789.70 crore**

**A.2.1.1** The land measuring 50.00 acres at Naya Raipur and 10.00 acres at Village-Umarda, Tehsil-Kurud Disst-Dhamatari (Chhatisgarh), total a sum of 60.00 acres land has been allotted by the Government of Chhatisgarh to AIIMS Raipur on lease basis, initially for a period of 30 years which has not been accounted for at a nominal value as required under Accounting Standard-12. This was also pointed out in SAR 2016-17 (para A.2.1.7).

**A.2.1.2** This does not include ₹ 16.27 lakh being books purchased under Learning Resource Allowance Scheme for the FY 2020-21. As per the scheme guidelines, these books are the property of AIIMS and therefore, should have

<sup>1</sup> ₹ 15.55 crore (Salary)+ ₹ 0.80 crore (Housekeeping)+ ₹ 1.07 crore (Security services)+ ₹ 1.42 crore (Outsource services)+ ₹ 0.05 crore (rent) = ₹ 18.89 crore.

been included in the Fixed Assets. But the same was considered as expenditure. This resulted in understatement of Fixed Assets by ₹ 16.27 lakh and overstatement of Expenditure by ₹ 16.27 lakh as well. This was also pointed out in SAR 2016-17 (Para A.2.1.5).

**B. Income and Expenditure**

**B.1 Expenditure**

This includes ₹ 6.92 crore<sup>2</sup> being expenses pertaining to previous years and booked in current year (no provisioning were made in previous year). This resulted in overstatement of current year Expenditure by ₹ 6.92 crore and understatement of Prior Period Expenditure by same amount.

**C. General**

Provision of gratuity and other retirement benefits were not made on actuarial valuation basis. This was also pointed out in SAR 2018-19 (Para A.2) and SAR 2019-20 (Para A.2).

**Effect of audit comments**

The net effect of the above comments is that Liabilities, Assets, Expenditure and Prior Period Expenses were understated by ₹ 1889.00 lakh, ₹ 16.27 lakh, ₹ 1180.73 lakh and ₹ 692.00 lakh respectively.

**D. 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.

**E. Grants-in-aid**

AIIMS, Raipur received grants-in-aid of ₹ 454.00 crore and interest received amounting to ₹ 8.04 crore alongwith internal receipts of ₹ 26.72 crore. In addition to this there was an unspent balance of ₹ 189.59 crore. Unspent balance includes ₹ 65.47 crore interest on GIA upto March 2020 which was refunded in March 2021 and unadjusted advance of ₹ 19.53 crore. Thus out of total available funds of ₹ 612.88 crore an amount of ₹ 430.80 crore was utilized leaving an unutilized balance of ₹ 182.09 crore (including interest on GIA amounting to ₹ 8.04 crore for the FY 2020-21) and there was ₹ 13.73 crore

<sup>2</sup> ₹ 0.99 crore (Housekeeping) + ₹ 0.86 crore (Security services)+ ₹ 1.22 crore (Outsource services)+ ₹ 0.05 crore (rent) + ₹ 3.35 crore (Repair & Maintenance, printing etc) + ₹ 0.45 crore (academic & CEA) = ₹ 6.92 crore

unadjusted advance. Thus, total unutilized balance of GIA is ₹ 195.82 crore at the end of the year.

- (v) Subject to our observations in the preceding paragraphs, we report that the Balance Sheet, Income and Expenditure Account and the Receipt and Payment Account dealt with by this report are in agreement with the books of accounts.
- (vi) In our opinion and to 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 Accounts and subject to the significant matters stated above and other matters stated in 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 2021; and
  - b. In so far as it relates to Income and Expenditure Account of 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 system was found to be inadequate due to:

- (i) No Internal audit manual is in use. This was also pointed out in earlier SAR.
- (ii) Internal audit has not been conducted since 2015.

### **2 Adequacy of Internal control system:**

The internal control system was found to be inadequate due to:

- (i) 15 paras of compliance audit were still outstanding pertaining to the period from 07/2016 to 12/2020.
- (ii) 16 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. This was also pointed out in earlier SAR.
- (v) No HR policy and promotion policy has been prepared. This was also pointed out in earlier SAR.
- (vi) There is no training and development policy in place.
- (vii) Project wise information is not available in compiled mode. Present status of many projects is not updated because data has still to be compiled by collecting information from all the concerned department/principal investigators.
- (viii) There is a printing mistake in the case of capital work in progress section of schedule-8. Instead of 'Capital Work-in-progress during the Year 2020-21', it has been printed 'Capital Work-in-progress during the Year 2019-20'. It needs rectification.
- (ix) The figures in the column of Net Block (As at the Current year end) in Work-in-progress section of schedule 8 is showing an amount of ₹1,12,88,96,711.31. However the bifurcation of the WIP which needed to be depicted is not depicted due to some technical error during transfer of data from excel to pdf. The corrections need to be incorporated.
- (x) As per Schedule-11, bank balances on current accounts is Rs. 1,95,41,57,288.19. But, closing balance in Current Accounts in the payment side of Receipts and Payment Account of 2020-21 is ₹ 1,96,69,10,107.19. The payment side of the Receipts & Payments Accounts (₹ 1,96,69,10,107.19) includes the bank account balance both of current account (₹ 1,95,41,57,288.19) and Saving Account balance

(₹1,27,52,819.00) which is reflected in Schedule – 11. The bifurcation of bank balances as balance in current account and balance in saving account needed to be done in Receipts and Payments accounts. This bifurcation was not done leading to mismatch in figures.

**3 Physical Verification of Fixed Assets:**

Physical verification of Fixed Assets has been conducted during the year.

**4 Physical Verification of Inventories:**

The Physical verification of inventories has been conducted during the year.

**5 Regularity in payment of Statutory Dues:**

Delay was noticed in the payment of statutory obligations due to heavy rush of work and COVID-19 pandemic in March 2021.

  
Sr. Audit Officer/AMG-II