

ਅਖਿਲ ਭਾਰਤੀ ਆਯੁਰਵਿਗਿਆਨ ਸੰਸਥਾਨ ਬਠਿੰਡਾ
ਅਖਿਲ ਭਾਰਤੀ ਆਯੁਰਵਿਗਿਆਨ ਸੰਸਥਾਨ ਬਠਿੰਡਾ
ALL INDIA INSTITUTE OF MEDICAL SCIENCES BATHINDA



5TH ANNUAL REPORT
APRIL 2023 – MARCH 2024

COMMITTED FOR ACHIEVING
HIGH STANDARDS OF MEDICAL SERVICES



श्री जगत प्रकाश नड्डा
Shri Jagat Prakash Nadda

माननीय केंद्रीय मंत्री
Hon'ble Union Minister

स्वास्थ्य एवं परिवार कल्याण व रसायन एवं उर्वरक, भारत सरकार
Health & Family Welfare and Chemicals & Fertilizers, Government of India



श्री प्रतापराव जाधव
Shri Prataprao Jadhav
माननीय राज्य मंत्री (स्वतंत्र प्रभार)

आयुष मंत्रालय
Hon'ble Minister of State (Independent Charge)
Ministry of Ayush

व
and

माननीय राज्य मंत्री
स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत सरकार
Hon'ble Minister of State
Ministry of Health & Family Welfare, Government of India



श्रीमती अनुप्रिया पटेल
Smt. Anupriya Patel
माननीय राज्य मंत्री

Hon'ble Minister of State
स्वास्थ्य एवं परिवार कल्याण व रसायन एवं
उर्वरक मंत्रालय, भारत सरकार
Ministry of Health & Family Welfare and
Chemicals & Fertilizers, Government of India



ALL INDIA INSTITUTE OF MEDICAL SCIENCES BATHINDA (PUNJAB)



ANNUAL REPORT : 2023-24

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FROM THE DESK OF PRESIDENT, AIIMS BATHINDA

Prof. (Dr.) Anil Kumar Gupta



I am thrilled to present our annual report, showcasing AIIMS Bathinda's extraordinary achievements in healthcare, education, and research. As a leading institution, we have made remarkable strides in delivering advanced medical care, pioneering innovative research, and fostering excellence in medical education. Our dedicated faculty members are not only imparting knowledge but also inspiring the next generation of healthcare leaders, nurturing their careers with a blend of expertise and innovation.

Our journey has been marked by significant milestones. We have introduced cutting-edge medical technologies for our patients, expanded our research initiatives, and enhanced our educational programs to meet the highest standards of excellence. Our commitment to patient-centred care remains unwavering, as we continuously strive to improve the health and well-being of our community.

As an autonomous institution, AIIMS Bathinda is dedicated to addressing the evolving needs of healthcare through comprehensive outreach programs and strategic collaborations. We are forging partnerships with leading healthcare organizations and research institutions to drive innovation and improve patient outcomes. Our focus on interdisciplinary research and education ensures that we remain at the forefront of medical advancements.

Looking ahead, we are poised to achieve even greater milestones. Our vision for the future includes expanding our patient care facilities, increasing our research capabilities, and enhancing our educational programs. We are committed to fostering a culture of excellence, where every member of our community is empowered to contribute to the advancement of medical science and the betterment of society.

I want to express my deepest gratitude to every member of the AIIMS Bathinda community for your unwavering commitment and dedication. Your hard work and passion are the driving forces behind our success. Let us continue to pursue excellence in all we do, confident that AIIMS Bathinda will keep making a profound impact on the field of medicine and beyond.

Together, we can achieve greatness and create a healthier, brighter future for all.



FROM THE DESK OF EXECUTIVE DIRECTOR

Prof. (Dr.) Dinesh Kumar Singh



With great honour and a deep sense of responsibility, I present the Annual Report of AIIMS Bathinda, encapsulating a year of remarkable progress, unwavering commitment, and transformative achievements. This document reflects our institution's dedication to advancing medical education, research, and patient care. Most remarkably, our Cath Lab is functional round the clock, minimizing the time to care. The Department of Radiotherapy has initiated stereo-tactic radio-surgeries for difficult-to-treat cancers, which was only available in a very institution so far. The emergency department is working in full swing to provide the best in region services. AIIMS Bathinda continues to uphold the highest standards of academic excellence and clinical practice, nurturing the next generation of medical professionals who will shape the future of healthcare.

Our distinguished faculty, driven by an unyielding passion for knowledge and innovation, have empowered our students to excel in their fields, fostering a culture of inquiry, empathy, and ethical practice. They have demonstrated exceptional dedication by producing innovative research, excelling in clinical training, and contributing significantly to the broader medical community. Their tireless efforts are a testament to our institution's ethos of excellence.

The challenges we face in today's healthcare environment demand innovation, resilience, and a deep commitment to service. In response, we have expanded our academic programs, enhanced our clinical services, and engaged in meaningful community outreach. We are in the process of initiating organ transplantation services in the near future and expansion of the Cath lab in the near future. We have signed a MoU for the cashless treatment of CGHS pensioners and ex-servicemen contributory health schemes. Our hospital has served as a pillar of hope and healing, providing high-quality care to all who seek it.

As we move forward, we remain dedicated to our mission of educating the next generation of healthcare leaders while delivering unparalleled care to our patients.

**EDITED JOINTLY BY**

Dr. Rakesh Kakkar
Professor and HoD
Department of CFM

Dr. Narinder Kaur Walia
Associate Professor
Institute of Nursing Education & Research

Dr. Madhur Verma
Associate Professor
Department of CFM

Sh. Vivek Goyal
Administrative Officer



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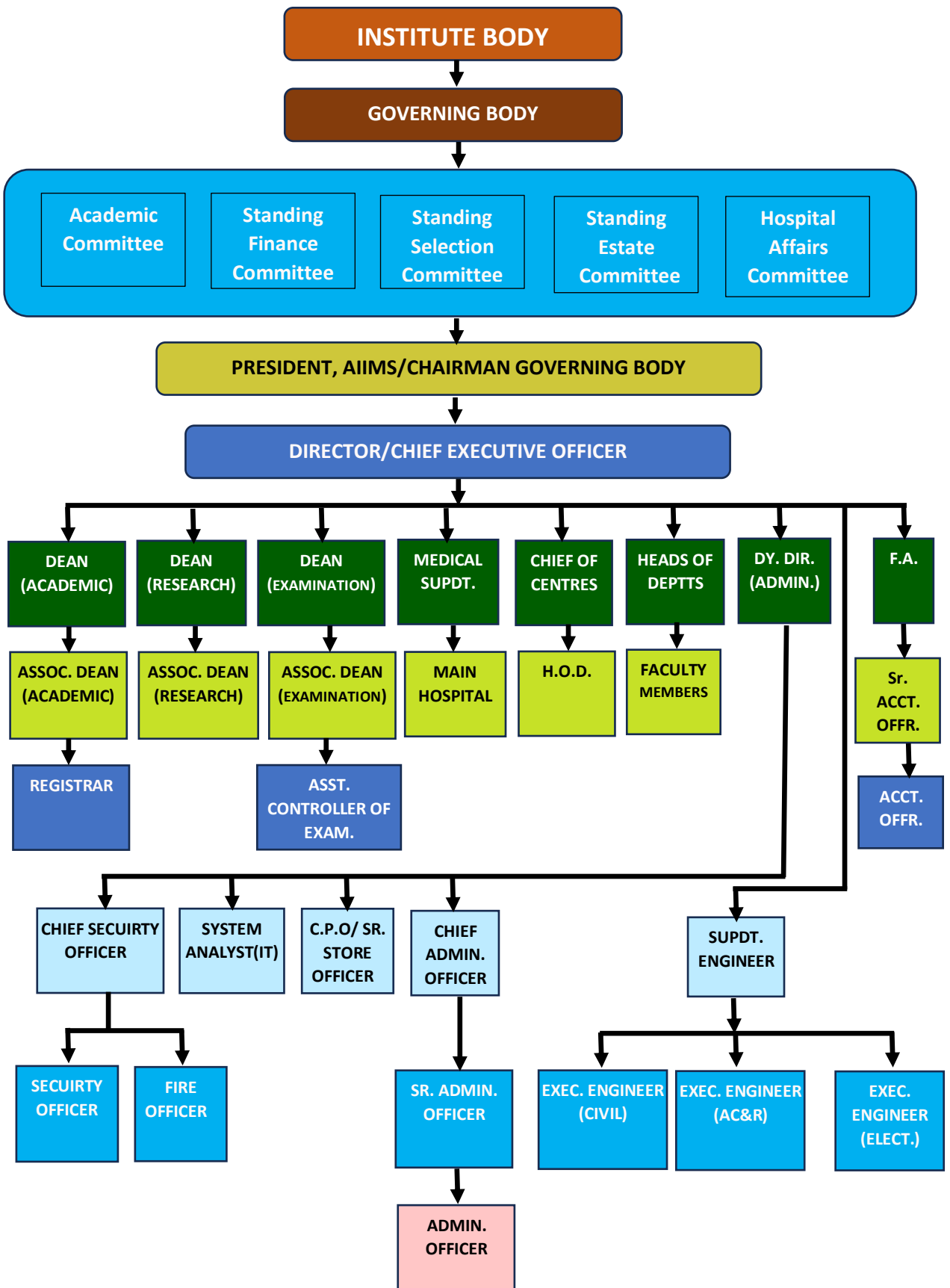
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ORGANISATIONAL STRUCTURE OF AIIMS BATHINDA





BACKGROUND AND SPIRIT OF AIIMS BATHINDA

1. AIIMS Bathinda has been raised under the Central Sector Scheme, Pradhan Mantri Swasthya Suraksha Yojana (PMSSY), which was first announced in August 2003 with the primary objective of correcting the regional imbalances in availability of affordable/reliable tertiary level healthcare in the country in general, and to augment facilities for quality medical education in under-served or backward States, in particular. Hence 21 New AIIMS Projects have been conceptualised under PMSSY.
2. **Vision.**
 - (a) Ensuring specialty-based, evidence-based, equity-driven and state-of-the-art patientcare to the Malwa region of Punjab and adjoining states with a focus on regional diseases and health issues.
 - (b) Create an excellent academic and educational environment for providing a platform for development of quality medical services, teaching, and research.
 - (c) Achieve an exemplary quality in medical education delivery and training and to render International standard quality patient care and health care.
3. **Objectives of AIIMS Bathinda.**
 - (a) To develop a pattern of teaching in undergraduate and postgraduate medical education to demonstrate high standard of medical education to all medical colleges and other allied institutions in India.
 - (b) To bring together in one place educational facilities of the highest order for the training of medical and paramedical health personnel.
 - (c) To attain self-sufficiency in postgraduate in medical education.
 - (d) To provide State of the Art Medical services to the population of the region.



GOVERNANCE FRAMEWORK OF AIIMS BATHINDA

1. **Governance Structure.** The Institute is being administered under provisions of :-

- (a) The AIIMS Act, 1956.
- (b) The AIIMS Rules, 1958.
- (c) The AIIMS Regulations, 1999.
- (d) The AIIMS Regulations, 2019.

2. **The Institute Body.** In exercise of the powers conferred by section 4 of the All-India Institute of Medical Sciences Act, 1956 (25 of 1956) as amended by the All-India Institute of Medical Sciences (Amendment) Act, 2012 (37 of 2012), the Central Government has constituted the Institute Body of All India Institute of Medical Sciences, Bathinda vide Notification No. Z-28016/170/2018-PMSSY-IV, dated 30th January, 2020 consisting of the following members :-

Sr.	Name of the IB Members	Designation
(a)	Prof. (Dr.) Anil Kumar Gupta, Sr. Professor and Head, PGIMER, Chandigarh.	President
(b)	Sh. Sukhbir Singh Badal, Member of Parliament Lok Sabha	Member
(c)	Shri Gurjeet Singh Aujla, Member of Parliament Lok Sabha	Member
(d)	Shri Apurva Chandra, IAS, Secretary, Ministry of Health and Family Welfare Govt. of India, (Ex-Officio).	Member
(e)	Shri Anurag Verma, IAS, Chief Secretary, Govt. of Punjab (Ex-Officio).	Member
(f)	Prof. (Dr.) Atul Goel, Director General of Health Services, Govt. of India (Ex-Officio).	Member
(g)	Shri Jaideep Kumar Mishra, Additional Secretary & Financial Advisor, MoH&FW, Govt of India (Ex-Officio).	Member
(h)	Prof. Raghavendra Prasad Tiwari, Vice Chancellor, Central University of Punjab, Bathinda (Ex-Officio).	Member
(j)	Prof. Rajeev Ahuja, Director, Indian Institute of Technology, Ropar (Ex-Officio).	Member
(k)	Prof. K.S. Rangappa, former General President, Indian Science Congress Association, Kolkatta.	Member
(l)	Dr. Poonam Khetrapal Singh, Ex. Regional Director WHO South East Asia Region India New Delhi	Member
(m)	Dr. Surjit Singh, Prof. & Head, Department of Pediatric Medicine, PGIMER, Chandigarh	Member
(n)	Dr. Kamlesh Upadhyay, Professor & In-charge, Head of the Department, Department of Medicine, BJMC & Hospital, Ahmedabad, Gujrat	Member
(o)	Dr. Yogendra Malik, Professor, Bhagat Phool Singh, Govt. Medical College, Sonapat, Haryana	Member
(p)	Prof. (Dr.) D.K Singh, Executive Director, AIIMS Bathinda	Member Secretary

3. **Constitution of Various Committees.** Amongst the IB various committees including the Governing body and the Standing committees have been formed to regulate the business of AIIMS Bathinda. The various committees so formed are enlisted below:-



4. **Governing Body.** The Governing Body of the Institute is the executive Committee of the Institute and shall exercise such powers and discharge such functions as the Institute may, by regulations made in this behalf, confer, or impose upon it. The governing Body consists of the following 11 members.

Sr.	Status in Governing Body	Members												
(a)	President of the Institute	Dr. Anil Kumar Gupta, former Sr. Professor and Head, PGIMER, Chandigarh, (Chairperson)												
(b)	Director General of Health Services, Ministry of Health & Family Welfare, Government of India.	Prof. (Dr.) Atul Goel, Director General of Health Services, Ministry of Health & Family Welfare, Government of India												
(c)	Representative of the Ministry of Finance.	Sh. Jaideep Kumar Mishra, ICAS, Additional Secretary & Financial Advisor, Ministry of Health & Family Welfare, Government of India (Member)												
(d)	Prof. (Dr.) Dinesh Kumar Singh, Executive Director, AIIMS Bathinda.	Member-Secretary												
(e)	One member elected by the members of the Institute from amongst the three members of the Parliament elected to the Institute.	Sh. Sukhbir Singh Badal, Member of Parliament Lok Sabha, (Member)												
(f)	Six Members of Institute Body	<table border="1"> <tbody> <tr> <td>(i)</td> <td>Secretary, Ministry of health & Family Welfare, Govt. of India</td> </tr> <tr> <td>(ii)</td> <td>Chief Secretary, Govt. of Punjab or his/her nominee</td> </tr> <tr> <td>(iii)</td> <td>Prof. Rajeev Ahuja, Director IIT Ropar</td> </tr> <tr> <td>(iv)</td> <td>Prof. K.S. Rangappa, former General President, Indian Science Congress Association, Kolkatta.</td> </tr> <tr> <td>(v)</td> <td>Dr. Kamlesh Upadhyay, Professor and In-Charge, Head of the Department of Medicine, B.J. Medical College and Civil Hospital, Ahmedabad, Gujrat.</td> </tr> <tr> <td>(vi)</td> <td>Dr. Yogender Malik, Professor Bhagat Phool Singh, Govt. Medical College, Sonipat, Haryana.</td> </tr> </tbody> </table>	(i)	Secretary, Ministry of health & Family Welfare, Govt. of India	(ii)	Chief Secretary, Govt. of Punjab or his/her nominee	(iii)	Prof. Rajeev Ahuja, Director IIT Ropar	(iv)	Prof. K.S. Rangappa, former General President, Indian Science Congress Association, Kolkatta.	(v)	Dr. Kamlesh Upadhyay, Professor and In-Charge, Head of the Department of Medicine, B.J. Medical College and Civil Hospital, Ahmedabad, Gujrat.	(vi)	Dr. Yogender Malik, Professor Bhagat Phool Singh, Govt. Medical College, Sonipat, Haryana.
(i)	Secretary, Ministry of health & Family Welfare, Govt. of India													
(ii)	Chief Secretary, Govt. of Punjab or his/her nominee													
(iii)	Prof. Rajeev Ahuja, Director IIT Ropar													
(iv)	Prof. K.S. Rangappa, former General President, Indian Science Congress Association, Kolkatta.													
(v)	Dr. Kamlesh Upadhyay, Professor and In-Charge, Head of the Department of Medicine, B.J. Medical College and Civil Hospital, Ahmedabad, Gujrat.													
(vi)	Dr. Yogender Malik, Professor Bhagat Phool Singh, Govt. Medical College, Sonipat, Haryana.													

5. **Standing Finance Committee (SFC).** The Standing Finance committee is constituted to pass and scrutinize various financial matters of the Institute which include:-

- (a) Annual accounts showing the receipts and expenditure of the Institute together with the audit report thereon.
- (b) Budget estimates showing the estimated receipts and expenditure of the Institute.
- (c) All proposals for the creation of new post.
- (d) All financial matters pertaining to the Institute.
- (e) All matters relating to the invitation and acceptance of tenders.



Sr.	Name of Member	Chairman/Member
(i)	Shri. Sudhansh Pant, IAS, Secretary, Ministry of Health & Family Welfare, Government of India	Chairman
(ii)	Sh. Jaideep Kumar Mishra, ICAS, Additional Secretary & Financial Advisor, Ministry of Health & Family Welfare, Government of India.	Vice-Chairman
(iii)	Prof. (Dr.) Atul Goel, Director General of Health Services, Ministry of Health & Family Welfare, Government of India.	Member
(iv)	Sh. Anurag Verma, IAS, Chief Secretary, Government of Punjab, or his nominee.	Member
(v)	Shri Gurjeet Singh Aujla, Member of Parliament, Lok Sabha	Member
(vi)	Dr. Yogender Malik, Professor Bhagat Phool Singh, Govt. Medical College, Sonipat, Haryana	Member
(vii)	Prof. (Dr.) Dinesh Kumar Singh, Executive Director, AIIMS Bathinda.	Member-Secretary

6. **Standing Estate Committee (SEC).**

Sr.	Name of the Member	Status in SEC
(a)	Sh. Sukhbir Singh Badal, Member of Parliament, Lok Sabha	Chairman
(b)	Shri Gurjeet Singh Aujla, Member of Parliament, Lok Sabha	Vice-Chairman
(c)	Shri Jaideep Kumar Mishra, ICAS, Additional Secretary & Financial Advisor, Ministry of Health & Family Welfare, Government of India.	Member
(d)	Sh. Anurag Verma, IAS, Chief Secretary, Government of Punjab, or his nominee.	Member
(e)	Prof. (Dr.) Dinesh Kumar Singh, Executive Director, AIIMS Bathinda.	Member-Secretary

7. **Standing Academic Committee (SAC).**

Sr.	Name of the Member	Status in SAC
(a)	Dr. Kamlesh Upadhyay, Professor and In-Charge, Head of the Department of Medicine, B.J. Medical College and Civil Hospital, Ahmedabad, Gujrat.	Chairman
(b)	Prof. Rajeev Ahuja, Director, IIT Ropar.	Vice-Chairman
(c)	Prof. (Dr.) Atul Goel, Director General of Health Services, Ministry of Health & Family Welfare, Government of India.	Member
(d)	Prof. K.S. Rangappa, former General President, Indian Science Congress Association, Kolkatta.	Member
(e)	Dr. Yogender Malik, Professor Bhagat Phool Singh, Govt. Medical College, Sonipat, Haryana.	Member
(f)	Prof. (Dr.) Dinesh Kumar Singh, Executive Director, AIIMS Bathinda.	Member-Secretary

8. **Standing Selection Committee (SSC).**

Sr.	Name of the Member	Status in SSC
(a)	Prof. (Dr.) Atul Goel, Director General of Health Services, Ministry of Health & Family Welfare, Government of India.	Chairman
(b)	Prof. Rajeev Ahuja, Director, IIT Ropar.	Vice Chairman
(c)	Dr. Kamlesh Upadhyay, Professor and In-Charge, Head of the Department of Medicine, B.J. Medical College and Civil Hospital, Ahmedabad, Gujrat.	Member
(d)	Prof. (Dr.) Dinesh Kumar Singh, Executive Director, AIIMS Bathinda.	Member-Secretary

9. **Standing Hospital Affair Committee (SHAC):**

Sr.	Name of the Member	Status in SHAC
(a)	Dr. Anil Kumar Gupta, Former Sr. Professor and Head, PGIMER, Chandigarh.	Chairman
(b)	Prof. (Dr.) Atul Goel, Director General of Health Services, Ministry of Health & Family Welfare, Government of India.	Member
(c)	Sh. Anurag Verma, IAS, Chief Secretary, Government of Punjab, or his nominee.	Member
(d)	Dr. Kamlesh Upadhyay, Professor and In-Charge, Head of the Department of Medicine, B.J. Medical College and Civil Hospital, Ahmedabad, Gujrat.	Member
(e)	Dr. Yogender Malik, Professor Bhagat Phool Singh, Govt. Medical College, Sonipat, Haryana.	Member
(f)	Prof. (Dr.) Dinesh Kumar Singh, Executive Director, AIIMS Bathinda.	Member-Secretary

10. **Standing HR Sub Committee (SHSC):**

Sr.	Name of the Member	Status in SHSC
(a)	Dr. Yogender Malik, Professor, Bhagat Phool Singh, Govt. Medical College, Sonipat, Haryana	Chairman
(b)	Sh. Anurag Verma, IAS, Chief Secretary, Government of Punjab, or his nominee.	Member
(c)	Prof. (Dr.) Dinesh Kumar Singh, Executive Director, AIIMS Bathinda.	Member-Secretary



GENERAL **ADMINISTRATION**



GENERAL ADMINISTRATION

SANCTIONED STRENGTH AND IN-POSITION

as on 31 March 2024

1. During the year, Faculty and Non- Faculty recruitment was done. Accordingly, the Sanctioned and working Strength of faculty and Non-faculty in FY 2023-24 is as follows:-

<u>Sr.</u>	<u>Category</u>	<u>Sanctioned Strength</u>	<u>In-position (as on 31.03.2024)</u>
(a)	Project Cell	08	03
(b)	Faculty	209	138
(c)	Senior Residents and Junior Residents	400	284
(d)	Non-Faculty – Nursing College and Hospital Services	1093	698
(e)	Other Non- Faculty (Group A)	11	02
(f)	Other Non- Faculty (Group B and C)	112	43
	Total	1833	1168

PROJECT CELL

2. **Detail of Project Cell Post.**

<u>Sr.</u>	Director	Prof. (Dr.) Dinesh Kumar Singh
(a)	Medical Superintendent	-----
(b)	Dy. Director (Admin.)	Col. Rajeev Sen Roy
(c)	Financial Advisor	-----
(d)	Administrative Officer	Shri Vivek Goyal
(e)	Superintendent Engineer	-----
(f)	Executive Engineer (Civil)	-----
(g)	Executive Engineer (Electrical)	-----

3. **The Administrative Division is broadly responsible for the following tasks:-**

- (a) Manpower planning and Recruitment, Human Resources.
- (b) General Administration.
- (c) Project implementation.
- (d) Establishment matters of faculty and non-faculty.
- (e) Security.
- (f) Disciplinary matter.
- (g) Vigilance.
- (h) Engineering Services.
- (j) Stores and Procurement.
- (k) Parliament questions.
- (m) Coordination of meetings of Statutory Bodies.
- (n) Constitution of various committee to look into functioning of Institute.
- (o) Implementation of Right to Information Act.
- (p) Works assigned by Ministry/Director, AIIMS.



ADMINISTRATION

Deputy Director (Administration)

Colonel Rajeev Sen Roy

Administrative Officer

Shri Vivek Goyal

Accounts Officer

Smt. Leena Kumari

Jr. Administrative Officer

**Sh. Himanshu Khulbey
Sh. Satnam Singh
Sh. Jitendra Jain
Sh. Pardeep Kumar**

Personal Assistant (PA)

Sh. Vikas Yadav

Sr. Admin. Assistant

**Sh. Dinesh Mittal
Sh. Prabhjot Singh
Ms. Shivani Suryavansi
Sh. Amandeep Kumar Garg
Sh. Vikas Singh Negi**

Stenographer

**Ms. Bhartu Kamboj
Sh. Hitanshu Kumar Sharma
Sh. Abhijit Dwivedi
Ms. Perna Bishnoi**

Cashier

Sh. Charanjeet Kumar

Jr. Admin. Assistant

**Sh. Rajender Kumar
Sh. Narendra Malani
Sh. Anil Kumawat
Ms. Poorvi Bhasin
Sh. Sagar Dixit**



BUILDING AND ENGINEERING DEPARTMENT

BRIEF OF AIIMS, BATHINDA PROJECT

Sr.	Date of Cabinet Approval	27.07.2016
1.	Approved Project Cost	925 Crores
2.	Construction Component Cost	747 Crores
3.	Equipment Component Cost	178 Crores
4.	Area	179 Acres 02 Kanal 03 Marla
5.	Construction cost of Buildings	584 Crores Approx.
6.	Executing Agency	HLL Infra Tech Services Ltd.
7.	Contractor	M/s. NCC Limited
8.	Date of Agreement between MoHFW & Executing Agency	Memorandum of Agreement dated 07.12.2017
9.	Agreement between EA and Contractor	HITES/IDN/AIIMS-BATHINDA/65-C/2018-19 dated 04.07.2018
10.	Stipulated time and date of start	08.06.2018 (LOA No. HITES/IDN/AIIMS-BATHINDA/65-C/2018-19/268 dated 08.06.2018)
11.	Actual Date of start of project	25.08.2018
12.	Actual Date of completion of Project	30.04.2022 (DLP period completed on 30.04.2023)
13.	Brief of Construction	(a) Hospital Block: 750 Bedded with OPD, IPD, AYUSH (b) Academic Block: Medical College, Nursing College (c) Residential Block: Director's Residence, Residences and Hostels for Doctors, Nurses, Employees and Students; Guest House and Night Shelter.

HOSPITAL COMPLEX (DISTRIBUTION OF BEDS)

- The 750 Bedded Hospital shall comprise of the following blocks /departments:-
- ✓ Hospital Block (720 Beds)
 - Specialty Departments - 360 Beds
 - Super Specialty Departments - 215 Beds
 - Other Facilities - 145 Beds
 - ✓ AYUSH Block - 30 Beds
 - ✓ Total Beds - 750 Beds

SUMMARY OF FACILITIES PLANNED/ PROVIDED

Sr.	Buildings/Particulars	Planned/ Provided
1.	Main Hospital Block (IPD, OPD, OT, MGPS)	720 Beds
2.	AYUSH Block	30 Beds
3.	Medical College and Nursing College	100 Admissions (Medical College)
4.		60 Admissions (Nursing College)
5.	Auditorium	500 Seats
6.	Night Shelter	150 Beds
7.	Shopping Centre	01 No.
8.	Central Dining & Mess	01 No.
9.	Cafeteria Sites	03 No.
10.	UG Hostel Boys	242 Nos. (Bed capacity)
11.	UG Hostel Girls	242 Nos. (Bed capacity)
12.	PG Hostel	80 Nos.
13.	Working Nurses Hostel	150 Nos.
14.	Student Nurses Hostel	288 Nos. (Bed capacity)
15.	Director's Residence	01 No.
16.	Housing Facilities	Type – V, IV, III, II
17.	Guest House	15 Rooms
18.	Animal House	01

In FY 2023-24, the following facilities have been made functional at the Institute for the welfare of visiting patients & their attendants, faculty, staff, students of the Institute:

- It is stated that the proposal for construction of additional housing units at the Institute has been approved by the MoHFW, Govt. of India. The project has been entrusted to CPWD for the construction of 459 Type III housing units and 199 Type IV units at AIIMS Bathinda.
- The construction of additional housing units at the Institute will enable the faculty, staff of the Institute to stay inside the campus and offer their services in a much significant way.





PRADHAN MANTRI JAN AUSHADI KENDRA (PMJK)



HDFC BANK ATM



DEDICATED AMRIT PHARMCY FOR CATH LAB PATIENTS



DEDICATED AMRIT PHARMCY FOR CATH LAB PATIENTS



ACADEMIC SECTION



DEPARTMENT OF DEAN ACADEMICS

Name of the Department	Dean Academics, AIIMS Bathinda
Head of the Department	Prof. Dr. Akhilesh Pathak

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Prof. (Dr.) Akhilesh Pathak	Dean Academics	8 th June 2023
(b)	Dr. Monica Kakkar	Asso. Dean Academics	8 th June 2023

2. Brief Introduction of the department.

(a) **Introduction.** The All India Institute of Medical Sciences (AIIMS) Bathinda has continued to advance its mission of providing high-quality medical education, research, and healthcare services. As the Dean of Academics, I am pleased to present the annual report for 2023-24, which highlights our accomplishments, initiatives, and future directions.

3. NEW COURSE STARTED.

(a) 2.1 DM-MCh courses were started in 11 departments:-

(i) DM Course started in the Cardiology and Nephrology departments.

(ii) MCh Course started in the CTVS, Neurosurgery, Urology, Joint & Replacement, Hand & Microvascular Surgery, Pediatric Surgery, Plastic & Reconstructive Surgery.

(b) 2.2 PhD started in the Biochemistry department, and two candidates registered.

(c) 2.3 BSc MRI Technician course started, and five candidates joined.

(d) 2.4 Short-Term Training (3-6 months) Courses started in AIIMS Bathinda.

(e) 2.5 Internship Program started in AIIMS Bathinda, and 49 students are doing internships.

(f) 2.6 Internship in PHYSIOTHERAPY was started under the Department of Physical and Medical Rehabilitation.

4. The 2nd Standing Academic Committee meeting was conducted on 11th September to approve the Academic agendas.

5. Following Guidelines and Booklets were prepared:-

(a) 4.1 MBBS admission Guidelines booklet was prepared.

(b) 4.2 The PG admission Guidelines booklet was prepared.

(c) 4.3 PhD admission Guidelines booklet was prepared.

(d) 4.4 Internship Log-book was prepared.

(e) 4.5 MD-MS Logbook was prepared.

(f) 4.6 Hostel Rules Booklet was prepared.

(g) 4.7 Thesis Submission Guidelines were prepared.



6. The first batch conducted the thesis submission process, and all theses are under evaluation.
7. DMC, Degree, and other certificates were designed and prepared after approval.
8. Doctoral Research Committee Meeting of Biochemistry was conducted.
9. BOS meetings for Different Departments & Finalizing the Curriculum of different courses.
10. The Mentor-Mentee Program has been revised.
11. The Students Exchange Program with AIIMS Bhopal was conducted, and ten students were sent from the AIIMS Bathinda to AIIMS Bhopal.
12. Orientation Programs for Different batches of MBBS, Internship & MD-MS, and Nursing students were organized and orientated.
13. Sports, Cultural, and Literary activities for the students regularly.
14. Yoga and Meditation classes for nurturing mental wellbeing in our students.
15. Workshop for UG students – How to prepare research project and for the STS Project.
16. Faculty Learning workshops-SDL/Blue Printing/How to prepare MCQs and Question papers.
17. Patent cell and IPR cell workshop was conducted for the faculty and students of AIIMS Bathinda.
18. Training for faculty of NIRF ranking was conducted.
19. Jan Jatiya Gaurav Divas celebration for ten days was conducted from 15 Nov 23 onwards in AIIMS Bathinda.
20. Infuse 24-26 Nov 23-Students Program was conducted for the students.
21. The white coat ceremony of the 2023 batch was conducted, and the parents were invited to celebrate the function.
22. Guest speaker Dr. Kamlesh Upadhyay's lecture on "Role of Doctors in Building the Nation" was organized.
23. A panel discussion was organized for the Senior Citizens of Bathinda.
24. The "Rubaru" Freshers Party for the 2023 batch was organized on 2 April 2024.
25. The literary event "Ek Sham" was organized.
26. 44000 saplings were implanted from 5th Dec 23 onwards in AIIMS Bathinda campus to create a beautiful green campus.
27. 70 Kadam trees were planted on the AIIMS Bathinda campus to create a beautiful green campus.
28. Antiragging and Disciplinary Committee meetings were taken as and when required, and appropriate actions were taken.
29. Dr. Subhash Gomber Gastro USA lecture organised on 7 March 24.
30. School Health Awareness program conducted on April 12, 2024.



31. **Faculty Development.**
- (a) Organized workshops and training programs for faculty on advanced teaching methodologies, research skills, and clinical practices.
 - (b) Encouraged faculty participation in national and international conferences, leading to increased research collaborations and publications.
32. **Student Achievements.**
- (a) Our students excelled in various academic and extracurricular activities, including winning national-level competitions and securing prestigious scholarships.
 - (b) Reviewed mentorship programs to support student's academic and career development.
33. **Curriculum Enhancement.**
- (a) Reviewed and updated the curriculum to incorporate the latest medical science and technology advancements.
34. **Innovation and Patents.**
- (a) Encouraged innovation through workshops, resulting in several patent applications for novel medical devices and technologies.
35. **Healthcare Services**
36. **Patient Care.**
- (a) Expanded healthcare services by introducing new specialties and super-specialties.
37. **Campus Facilities.**
- (a) Enhanced campus facilities, including libraries, laboratories, and recreational areas.
38. **Digital Transformation.**
- (a) Implemented an integrated LMS CMS to streamline patient management and administrative processes.
39. **Future Plans.**
- (a) **Expansion of Academic Programs:** Introduce new postgraduate, super-specialty courses, and other allied health courses to meet the evolving needs of the healthcare sector.
 - (b) **Strengthening Skills Initiatives:** Establish a dedicated skills lab and innovation hub to foster cutting-edge skills and development.
 - (c) **Enhanced Healthcare Services:** Expand outreach programs and partnerships to improve healthcare accessibility and quality in the Malwa region.
 - (d) **Sustainability Initiatives:** Implement green campus initiatives and promote sustainability in all aspects of campus life.
40. **Acknowledgments.** I sincerely thank the Registrar, Dr. Navita Aggarwal, the members of the Academic Cell, Dr. Gagandeep Kwatra, Dr. Mintu Pal, Dr. Altaf Mir, Dr. Lata Goyal, Dr. Priyanka, Dr. Soumya Sahu, other faculty members, dean office staff Sh. Sandeep Dhingra & Navdeep, students, and stakeholders for their unwavering support and dedication. Together, we have made significant strides in advancing the mission of AIIMS Bathinda, and I look forward to continuing this journey with renewed commitment and enthusiasm.

Professor Dr. Akhilesh Pathak
Dean Academics,



AIIMS Bathinda

DEPARTMENT OF ANAESTHESIOLOGY

Name of the Department	Anaesthesiology
Head of the Department	Dr. Anju Grewal

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr. Anju Grewal	Professor and HOD	16.12.2022
(b)	Dr. Mayank Gupta	Associate Professor	02.8.2021
(c)	Dr. Navneh Samagh	Associate Professor	9.11.2019
(d)	Dr. Jyoti Sharma	Associate Professor	01.2.2020
(e)	Dr. Gopal Kishan Jalwal	Assistant Professor	14.8.2021
(f)	Dr. Jyoti Kanwat	Assistant Professor	14.8.2021
(g)	Dr. Shashank Umesh Paliwal	Assistant Professor	14.8.2021
(h)	Dr. Gegal Pruthi	Assistant Professor	23.8.2021
(j)	Dr. Ankita Dey	Assistant Professor	3.1.2022
(k)	Dr. Uma Rathi	Assistant Professor	19.12.2023 A/N
(l)	Dr. Swati Das	Assistant Professor	28.2.2024 A/N
(m)	Dr. Mohammad Luqman	Assistant Professor	8.7.2024 A/N

2. **Brief Introduction of the department.** The Anaesthesia Department at AIIMS Bathinda proudly presents its annual report, showcasing a year of unwavering dedication to patient care, education, research, and innovation. As a vital pillar of healthcare delivery at this esteemed institution, our department has strived to uphold the highest standards of excellence.

3. **Patient-Centric Care.** Over the past year, we have continued to prioritize patient safety, comfort, and optimal outcomes. Our specialized anaesthesia services have supported a wide range of surgical interventions, including, but not limited to neurosurgeries, cardiovascular surgeries, gastro surgeries, complex paediatric surgeries, high risk obstetric surgeries. Medical management and interventional procedures are being performed to provide relief to patients with chronic pain. The pre-anaesthetic checkup (PAC) clinic caters to a large number of patients scheduled for elective surgical/interventional procedures six days a week. One emergency operation theatre each for obstetric and non-obstetric surgical emergencies functions round the clock throughout the week. A 20-bed intensive care unit caters to critically ill patients requiring rigorous clinical management round the clock. The post-anaesthesia care unit (PACU) is also functional round the clock. Our department has been working dedicatedly and relentlessly to improve patient outcomes.

4. **Academic Excellence.** Our commitment to education remains unwavering. We have nurtured the next generation of healthcare professionals through structured residency programs, equipping them with the knowledge and clinical skills required to excel in the field of anaesthesia, Critical Care and Pain medicine with an endeavour to become perioperative physicians. Furthermore, our faculty has actively engaged in research endeavours, contributing to advancing anaesthesia, safe and high-quality patient care.

5. **Research and Innovation.** Innovation has been a hallmark of our department. We have embarked on pioneering research initiatives addressing critical anaesthesia and pain management questions. Our research findings have been disseminated through publications and presentations, furthering our reputation as leaders in the field.



6. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/ International repute.

Sr.	Name of faculty	Title/Topic	Details of the Event	Organized by
International conferences.				
(a)	Dr. Anju Grewal	(i) Invited speaker: Topic of talk: “Tranexamic Acid Prophylaxis” in the sessions on Obstetric Anaesthesia: Clinical Conundrums in Obstetric anaesthesiology (ii) Invited Speaker: Topic of Talk: “Maternal Critical Care: Improving but far from Ideal” in the session on Critical Care & Trauma: Obstetrics (iii) Poster Moderator for track and session on: “Obstetric Anaesthesia E-Poster presentations: Research - Haemorrhage”	18 th World Congress of Anaesthesiologists (WCA 2024) 3 rd -7 th March 2024, Suntec Convention & Exhibition Centre, Singapore	World Congress of Anaesthesiologists
(b)	Dr Anju Grewal	Invited Speaker on: “Teaching and training for Obstetric anaesthesia/obstetric emergencies in developing world: Challenges and solutions.”	American Society of Anaesthesiologists Annual Meeting 2023 12 TH -17 TH October 2023 San Francisco USA	American Society of Anaesthesiologists
(c)	Dr Mayank Gupta	Unveiling unmet Pain and palliative care needs among cancer patients in Rural North India: A Participatory Action Approach	49 th Annual Regional Anaesthesiology and Acute Pain Medicine Meeting, San Diego, USA	Regional Anaesthesiology and Acute Pain Medicine
(d)	Dr Mayank Gupta	Cancer pain management	6 th National and 1 st International Conference of the Indian Society of Pain Clinicians	King George Medical University, Lucknow
(e)	Dr. Navneh Samagh	Effect of prone position on cerebral hemodynamics assessed using transcranial Doppler in patients undergoing thoracolumbar spine surgeries: a preliminary analysis	12 th EuroNeuro 2023 - Update on Neuro-anesthesia & NeuroIntensive Care	Departments of Neurology and Intensive Care at the Brussels University Hospital, Brussels, Belgium
(f)	Dr. Jyoti Sharma	Talk on “Non-invasive positive pressure ventilation”	FCCS course, May 2023 Bangladesh (virtual)	



National conferences.			
(a)	Dr. Anju Grewal	Invited Speaker: Topic of talk- “SGA-Use in unconventional scenarios.”	RACE 2024 Sri Ramachandra Institute of Medical Sciences, Chennai Ramachandra Anaesthesia Continuing Education 26 th -28 th January 2024
(b)	Dr. Anju Grewal	A. Invited Speaker: Topics of talks: (i) Interesting cases in Obstetric Airway (ii) Airway Management on the Parturient – Anatomical & Physiological Challenges (iii) Expert Session: Obstetric Airway Management: Challenges & Solutions (iv) Chairperson for Thematic session on Airway management on Trauma, Neurosurgical patients, and other special vulnerable patient populations (v) Judge for Award Oral paper presentation session	TMC National Conference on “The Difficult Airway” TMC-DAC 2023 8 th -10 th December, 2023 TMH, Mumbai
(c)	Dr. Anju Grewal	Invited CME speaker: Topic: “Post Cesarean Analgesia” Faculty for a workshop on research Methodology & Thesis writing	70 th Annual National Conference of Indian Society of Anaesthesiologists 2023, 22 nd -26 th November 2023, Gurugram India Indian Society of Anaesthesiologists
(d)	Dr. Anju Grewal	Workshop Faculty and Invited speaker Chairperson at Nursing Workshop on Trauma Resuscitation	1 st Annual International Conference of Society of Trauma Anaesthesia and Critical Care, 2 nd to 5 th November 2023 Society of Trauma Anaesthesia and Critical Care
(e)	Dr. Anju Grewal	As AOA National Honorary Secretary, Chaired the AOA Oration Judge at “Dr Sunanda Gupta Gold Medal Award” for best research paper presentation Workshop Coordinator and Faculty for Obstetric Critical Care and Emergencies Delivered talk on Maternal CPR-AOA Guidelines	XVI Annual National Conference of Obstetric Anaesthesiologists, India, Sep 22 nd to 24 th , 2023 at B J Medical College & Civil Hospital, Ahmedabad Association of Obstetric Anaesthesiologists (AOA)



(f)	Dr Mayank Gupta	Research Methodology	38th Annual Conference of Indian Society of Study of Pain	Indian Society of Study of Pain
(g)	Dr Mayank Gupta	Ultrasound-guided pain interventions	AIIMS Pain Practice and Regional Anaesthesia (APPRA 2024)	All India Institute of Medical Sciences, Delhi
(h)	Dr Mayank Gupta	Research Methodology	RSACP Midterm CME	All India Institute of Medical Sciences, Jodhpur
(j)	Dr Mayank Gupta	Resource faculty for the workshop	11 th Seed Workshop of Airway Management Foundation	All India Institute of Medical Sciences, Bathinda
(k)	Dr Mayank Gupta	Labor analgesia	Mid-Term RSACPCON 2023	Himalayan Institute of Medical Sciences, Swami Rama Himalayan University, Dehradun
(l)	Dr Mayank Gupta	Trigeminal neuralgia	Pain Updates-2023	Department of Anaesthesiology and Intensive Care, GGS Medical College and Hospital, Faridkot
(m)	Dr. Navneh Samagh	Resource faculty for the workshop	11 th Seed Workshop of Airway Management Foundation	All India Institute of Medical Sciences, Bathinda
(n)	Dr. Navneh Samagh	PBLD session on "Cerebral vasospasm"	Comprehensive Neurocritical Care Course, SNCC April 2023, AIIMS Bathinda	AIIMS Bathinda and SNCC
(o)	Dr. Navneh Samagh	Regional anaesthesia is safe for PCNL surgery: Pro con session	RSACPCON 2023, Kolkata	RSACPCON
(p)	Dr. Navneh Samagh	Pro con session: Rapid spinal anaesthesia	XVI Annual National Conference of Association of Obstetric Anesthesiologists, India, Sep 22 nd to 24 th , 2023 at B J Medical College & Civil Hospital, Ahmedabad	Association of Obstetric Anaesthesiologists (AOA)



(q)	Dr Navneh Samagh	Quizmaster and talk on " Focussed neurological examination" and resource faculty for a workshop on traumatic spine injury	4th Annual Conference of the Neurocritical Care Society of India (NCSI) 2023 and the 4th Annual Neurocritical Care Update (ANCU) 2023, September 29 to October 2	Artemis Hospital, Gurugram
(r)	Dr Navneh Samagh	Talk on: "Anaesthesia for developing brains"	ISNACC e-education programme, 15 th September 2023	Indian Society of Neuro-anaesthesiology and Critical Care
(s)	Dr Navneh Samagh	Talk on: "Sympathetic blockade to unblock the intracranial vessels following aneurysmal SAH."	PGI Neuro-anaesthesia CME October 27th to 29th, 2023	PGIMER, Chandigarh
(t)	Dr. Navneh Samagh	BLS training	Skill Development Induction Training Program	Institute of Nursing Education and Research INER, AIIMS, Bathinda
(u)	Dr Navneh Samagh	Chairperson	National Symposium Workshop on Critical Care in Obstetrics	Departments of Obstetrics and Gynaecology and Anesthesiology, AIIMS, Bathinda
(v)	Dr Navneh Samagh	Management of unknown poisoning in emergency	Annual Symposium on Occupational Health and Safety in agricultural and Skill development	Department of Forensic Medicine
(w)	Dr Jyoti Sharma	Resource Faculty for Labour Analgesia Workshop	RSACP Mid-Term CME cum Workshop, July 2023, Dehradun	Research Society of Anaesthesiology and Clinical Pharmacology
(x)	Dr Jyoti Sharma	Resource Faculty for Airway workshop	1st AIIMS Onco-Anaesthesiology Update and 5th SOAPCCON 2023, August 2023, New Delhi	AIIMS, New Delhi
(y)	Dr Jyoti Sharma	Resource Faculty for Airway workshop	TMC-Anaesthesia Conclave (TAC2024) January 2024, Kolkata	



(z)	Dr Jyoti Sharma	Resource Faculty for Airway workshop	TMC-DAC 2023, Tata Memorial Hospital, Dec 2023, Mumbai	Tata Memorial Hospital, Mumbai
(aa)	Dr Jyoti Sharma	Speaker – “CRM in Anaesthesia: An Intro”	RSACPCON 2023, April 2023 Kolkata	Research Society of Anaesthesiology and Clinical Pharmacology
(ab)	Dr Jyoti Sharma	Speaker- “PBLD- Nutrition”	Comprehensive Neurocritical Care Course, SNCC April 2023, AIIMS Bathinda	AIIMS Bathinda and SNCC
(ac)	Dr Jyoti Sharma	Speaker- “Video Presentation-Emergency Cricothyrotomy”	14th annual conference of All India Difficult Airway Association (NAC 2023), September 2023, Srinagar	All India Difficult Airway Association
(ad)	Dr Jyoti Sharma	Speaker – “Diagnosis and Management of Shock”	FCCS course, March 2024, Rohtak	
(ae)	Dr Jyoti Sharma	Chairperson – “Crisis resource management and patient safety.”	February 2024, Ludhiana	
(af)	Dr Jyoti Sharma	Instructor for BCLS Course for MBBS Students	INFUSE, December 2023, AIIMS Bathinda	AIIMS, Bathinda
(ag)	Dr. Shashank Paliwal	Quizmaster	ISNACC 2024, 16th-18th February 2024	AFMC Pune
(ah)	Dr. Shashank Paliwal	Designing ERAS protocols in Neurosurgical Patients: How to go about it	PGI Neuroanaesthesia CME October 27th to 29th, 2023.	PGIMER, Chandigarh
(aj)	Dr. Shashank Paliwal	Intubated patient with critical head injury: bedside care	1 st Annual International Conference of Society of Trauma Anaesthesia and Critical Care, Nov 2 nd to 5 th , 2023,	PGIMER, Chandigarh
(ak)	Dr Shashank Paliwal	Evaluation of optic nerve sheath diameter	XVI Annual National Conference of Association of Obstetric Anaesthesiologists Sep 22 nd to 24 th , 2023	B J Medical College & Hospital, Ahmedabad



(al)	Dr Shashank Paliwal	Quizmaster	4th Annual Conference of the Neurocritical Care Society of India (NCSI) 2023 and the 4th Annual Neurocritical Care Update (ANCU) 2023, September 29 to October 2	Artemis Hospital, Gurugram
(am)	Dr Gegal Pruthi	BLS training.	Skill Development Induction Training Program	Institute of Nursing Education and Research INER, AIIMS, Bathinda
(an)	Dr Gegal Pruthi	Basics of echocardiography.	Monthly Academic Scientific Session (MASS)	North Zone Association of Cardiovascular Thoracic Anesthesiologists
(ao)	Dr Gegal Pruthi	BLS workshop.	An undergraduate Medical Conference- INFUSE	Undergraduates of AIIMS, Bathinda
(ap)	Dr Gegal Pruthi	Physics of Echocardiography.	Sunday breakfast TEE session and Critical Care Echocardiography	IACTS, ICA, KIACTA, GICS, International Society of Cardiac Ultrasound, and Global Heartcare Foundation
(aq)	Dr. Gegal Pruthi	TEE workshop faculty and presented e-poster.	IACTACON 2024	IACTACON 2024
(ar)	Dr Gegal Pruthi	Resource faculty for the workshop.	11 th Airway Seed Workshop	Department of Anaesthesiology, AIIMS, Bathinda
(as)	Dr Gegal Pruthi	Participated as Faculty and organizing committee member in the "National Symposium Workshop on Critical Care in Obstetrics," focusing on managing critically ill parturient women.	National Symposium Workshop on Critical Care in Obstetrics	Departments of Obstetrics and Gynaecology and Anaesthesiology, AIIMS, Bathinda
(at)	Dr Gegal Pruthi	Management of unknown poisoning in emergency.	Annual Symposium on Occupational Health and Safety in agricultural and Skill development	Department of Forensic Medicine
(au)	Dr Ankita Dey	Resource faculty for the workshop.	11 th Airway Seed Workshop	Department of Anaesthesiology, AIIMS, Bathinda



(av)	Dr Ankita Dey	Invited faculty for podium talk on: "Difficult extubation in neuro anaesthesia."	25 th annual conference of Indian Society of Neuro-Anaesthesiology and Critical Care, February 2024, Pune	AFMC, Pune
(aw)	Dr Ankita Dey	Talk on: "Volume assessment and postoperative outcomes."	ISNACC e-education webinar, 20 th October 2023	Indian Society of Neuro-anaesthesiology and Critical Care (ISNACC)
(ax)	Dr Gopal K Jalwal	Analgesic efficacy of external oblique fascial plane block in the multimodal regimen for post-operative pain after upper abdomen surgery: A prospective randomised double-blinded study: podium paper presentation.	AORA 2023, Pune	AORA
(ay)	Dr Gopal K Jalwal	Delivered lecture on Segmental Spinal Anaesthesia	National ISA-sponsored CME	GMC Amritsa
(az)	Dr Gopal K Jalwal	Lecture on BLS in Children.	Skill development induction program for nursing officers	AIIMS Bathinda
(aaa)	Dr Gopal K Jalwal	Lecture on ATLS.	Clinical meet	AIIMS Bathinda
(aab)	Dr Gopal K Jalwal	Lecture on Meningitis.	SNCC	AIIMS Bathinda
(aac)	Dr Jyoti Kanwat	Lecture on Post arrest Care.	SNCC	AIIMS Bathinda
(aad)	Dr Jyoti Kanwat	Lecture on Defibrillator.	Clinical meet	AIIMS Bathinda

7. **Faculty achievements - awards, honours, etc.**

<u>Sr.</u>	<u>Name of faculty</u>	<u>Award/honour</u>	<u>Event</u>	<u>Organised by</u>
(a)	Dr. Ankita Dey	Awarded instructor potential (IP) at the ATLS Provider course.	ATLS Provider course, 6 th -8 th October, 2023	Amrita Institute of Medical Sciences, Faridabad
(b)	Dr. Ankita Dey	Elected as Executive Committee Member of the Neurocritical Care Society of India (NCSI).	4 th annual conference of NCSI, September 29 th -October 2 nd , 2023	Neurocritical Care Society of India (NCSI)
(c)	Dr Gegal Pruthi	IACTA International Travel Fellowship.	IACTACON 2024, Nagpur	Indian Association of Cardiovascular and Thoracic Anaesthesiologists, Nagpur



(d)	Dr Mayank Gupta	MSc with Distinction.	MSc in Palliative Medicine	Cardiff School of Medicine, Cardiff University, UK
(e)	Dr Mayank Gupta	Commonwealth Distance Learning Scholarship (2020-2023).	To pursue an MSc in Palliative Medicine	Commonwealth scholarship commission
(f)	Dr Mayank Gupta	100% Scholarship.	To pursue an Executive Education Program in Neuromodulation	City University of London, UK
(g)	Dr Navneh Samagh	She received a grant of Rs 5,85,000 from ICMR for conducting a DHR-ICMR Clinical training workshop on perioperative ultrasound.	DHR-ICMR Clinical training workshop on perioperative ultrasound	ICMR
(h)	Dr Uma Rathi	BCBR (Basic course of biomedical research) certificate course cleared in December 2023.		BCBR

8. **Research activities undertaken in the department.**

Sr.	Name & designation of PI	Title of the project	Source of support Intramural/ extramural	Status (ongoing/ completed)	Budget
Projects sanctioned.					
(a)	Dr. Jyoti Sharma, Associate Professor	(i) Practice pattern of <u>I</u> ntraoperative <u>F</u> luid therapy in elective major gastrointestinal cancer surgeries in India (I-INFUSE)–A multicentre observational study. (ii) Comparison of the effect of subcostal transversus abdominis plane block (STAP) and Modified thoracoabdominal nerve block through perichondrial approach (M-TAPA) on postoperative pain and rescue analgesic requirement in patients undergoing laparoscopic cholecystectomy: A prospective, randomized, double-masked study. (iii) Comparison of ease of endotracheal intubation between left head rotation and sniffing position: A Randomised controlled trial.	Not funded	Ongoing Ongoing	



(b)	Dr. Ankita Dey, Assistant Professor	Incidence of perioperative adverse events in obese and overweight children in India – a prospective, observational multicentric study.	Not funded	Ongoing	
(c)	Dr. Gegal Pruthi, Assistant Professor	Effect of Post-conditioning with Intralipid in Patients Undergoing Off-Pump Coronary Artery Bypass Surgery.	Not funded	Ongoing	
(d)	Dr Mayank Gupta, Associate Professor	Development and Implementation of a comprehensive, coordinated, community-based palliative care model for cancer patients (C3PaC).	Extramural (Indian Council of Medical Research)	First-year completed	22,34,780 (Year 2023-2024)
(e)	Dr Gopal Jalwal, Assistant Professor	Comparison of USG-guided Pericapsular Nerve Group Block with or without adjuvant-clonidine as perioperative analgesia in patients posted for hip surgeries under Spinal Anaesthesia – Randomised Controlled trial”	Not funded	ongoing	Non-Funding

9. **Papers and Books/chapters published by the department.**

10. **Book Chapters.**

- (a) Kaur, K., Kumar, P., **Sharma, J.**(2024). *Oxygen Therapy*. In: Rungta, N., Ray, B. (eds) W4C 2023 Mechanical Ventilation. SMP, India ISBN: 978-81-965545-2-1.
- (b) Sodhi, K., **Sharma, J., & Kumar, M.**(2023). *Care of a sedated and ventilated ICU patient*. In: Kulkarni A.P., Zirpe K.G., Dixit S.B. (Eds). Textbook Of Mechanical Ventilation. Jaypee Brothers, India.
- (c) **Grewal, A., Sharma, J.**(2024). *Supraglottic Airway-Use In Unconventional Clinical Scenarios*. 25th Ramachandra Anesthesia Continuing Education. RACE 2024.
- (d) **Shashank Paliwal, Anju Grewal.** *Geriatric Trauma. The manual 'Fundamentals of Immediate Trauma Life Support*.2023.
- (e) **Shashank Paliwal, Anju Grewal.** *Local Anesthetics and Local Anesthetic Systemic Toxicity (LAST) in Relation to Obstetric Anesthesia In Peripartum Care of the Pregnant Patient: A Question-and-Answer Review for Anesthesiologists and Obstetricians*, Editors: Sinha A & Pasca I, Publisher: Springer, New York, NY, USA 2024 (In Press)



- (f) Sodhi K, **Samagh N**, Phillips A, Kumar M. *Percutaneous Tracheostomy In Principles and Practice of Neurocritical Care*. 1st ed. Springer Nature Singapore 2024;849-866.
11. **Research Publications.**
- (a) **Paliwal S, Samagh N, Sharma J, Dey A.** *Internal system malfunction of an anaesthesia workstation due to improper ambient conditions of the operating theatre*. Indian J Anaesth. 2023 Sep;67(9):847-848. doi: 10.4103/ija.ija_166_23.
- (b) Solanki SL, Maurya I, **Sharma J.** *Impact of fluid and haemodynamic management in cytoreductive surgery with hyperthermic intraperitoneal chemotherapy on postoperative outcomes - A systematic review*. Indian J Anaesth. 2023 Oct;67(10):866-879. doi: 10.4103/ija.ija_367_23.
- (c) Maurya I, Lohiya A, **Sharma J**, Maurya RG, Dwivedi P. *Risk of bias in published randomized controlled trials*. Indian J Anaesth. 2023 Dec;67(12):1126-1129. doi: 10.4103/ija.ija_976_23.
- (d) **Sharma J**, Bala R, Singh S. *Correlation of Venous Blood Sugar Measured by Lab Method and Capillary Blood Sugar Measured by Glucometer in Neurosurgical Patients Receiving Dexamethasone*. Asian J Neurosurg. 2024;19(1):21-5.
- (e) Kumar P, Vats J, Kaur K, **Sharma J**, Johar S. *Evaluation of the three different doses of cisatracurium during general anaesthesia: A prospective randomized study*. J Anaesthesiol Clin Pharmacol 2024;40:69-74.
- (f) Jain M, Tantia K, Johar S, Singh AK, Bansal T, **Sharma J.** *Effect of operation table height on ease of mask ventilation, laryngeal view, and endotracheal intubation success*. J Anaesthesiol Clin Pharmacol (published ahead of print).
- (g) **Pruthi G, Sharma J**, Singla M, **Grewal A.** *An unidentifiably severed LMA supreme: An unanticipated critical incident*. J Anaesthesiol Clin Pharmacol (published ahead of print).
- (h) **Gupta M, Pruthi G**, Saini V, **Sharma J.** *Let awake transorbital fiberoptic intubation solve the triple trouble*. J Anaesthesiol Clin Pharmacol (published ahead of print).
- (j) Kumar P, Singh A, **Sharma J**, Parshad S, Johar S, Kaur K. *Assessment of ultrasound guided erector spinae plane block for early postoperative analgesia for modified radical mastectomy: a prospective, randomized, controlled study*. Med Gas Res. 2024;14(published ahead of print).
- (k) **Paliwal S, Samagh N, Dey A**, Singh N. *Managing a leaky epidural catheter: Thinking out of the box*. J Anaesthesiol Clin Pharmacol. 2024 Apr-Jun;40(2):360-362. doi: 10.4103/joacp.joacp_317_22. Epub 2023 Aug.
- (l) **Dey A**, Khandelwal A. *Hyperoxia in neurocritical care: Current perspectives*. Med J Armed Forces India. 2023.
- (m) Bidkar, PU; **Dey, A**; Chatterjee, P; Ramadurai, R; Joy, Jerry Jame. *Target-controlled infusion – Past, present, and future*. J Anaesthesiol Clin Pharmacol: 10.4103/joacp.joacp_64_23, August 16, 2023. | DOI: 10.4103/joacp.joacp_64_23.
- (n) **Gupta M, Pruthi G**, Gupta P, Singh K, **Kanwat J**, Tiwari A. *Impact of End-of-Life Nursing Education Consortium on Palliative Care Knowledge and Attitudes Towards Care of Dying Nurses in India: A Quasi-Experimental Pre-post Study*. Am J Hosp Palliat Care. 2023 May;40(5):529-538.



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- (s) **Gupta M, Pruthi G, Singh K.** *Long-Term Impact of the End-of-Life Care Nursing Education Consortium on Knowledge, Attitudes, and Practice (KAP) of Indian Nurses Working in Non-Palliative Care Settings: A KAP-GAP Analysis.* Am J Hosp Palliat Care. 2024 Jan 3:10499091231225739.
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- (v) Kaur B, **Samagh N, Paliwal S, Kaushal G.** *Anaesthesia management of a patient with non-insulinoma pancreatogenous hypoglycaemia syndrome (NIPHS) - A case study.* Indian J Anaesth. 2023 Oct;67(10):944-945. doi: 10.4103/ija.ija_1017_22. Epub 2023 Oct 16. PMID: 38044917; PMCID: PMC10691616.
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- (y) **Jalwal GK, Kanwat J, Garg B, Kaur B.** *Rare incidental presentation of urinary bladder paraganglioma and the anaesthetic challenges faced: A case report.* Indian J Clin Anaesth 2023;10(2):201-203.
- (z) **Gupta M, Rohilla R, Gupta P, Tamilchelvan H, Joshi U, Kanwat J.** *Nebulized dexmedetomidine for attenuating hemodynamic response to laryngoscopy and endotracheal intubation in adult patients undergoing surgeries under general anaesthesia: a systematic review and meta-analysis of randomized controlled trials.* BMC Anesthesiol. 2023 Dec 11;23(1):406. doi: 10.1186/s12871-023-02366-9. PMID: 38082217; PMCID: PMC10712167.
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- (ag) Jain R, Bansal K, Jain K, Singh MR, **Grewal A.** *Ultrasound-guided Subarachnoid Block in Kyphoscoliotic Parturient Posted for Urgent Caesarean Section.* *Journal of Obstetric Anaesthesia and Critical Care.* 2023;13(1):112–5.
- (ah) Karlupia D, Garg K, Jain R, **Grewal A.** *Transnasal Humidified Rapid-Insufflation Ventilatory Exchange Versus Conventional Facemask Breathing for Preoxygenation During Rapid Sequence Induction.* *Cureus.* 2023 Aug 7;15(8):e43063. doi: 10.7759/cureus.43063. PMID: 37680406; PMCID: PMC10481628.
- (aj) Sharma A, Singh U, Kaur G, **Grewal A**, Maingi S, Tidy S. *Role of preoperative carbohydrate loading to prevent perioperative ketoacidosis in elective cesarean delivery.* *J Anaesthesiol Clin Pharmacol.* 2024;10–4103.
- (ak) Singh G, Luthra N, Jain R, **Grewal A**, Garg S, Mann LD. *Comparison of nasal and face mask ventilation in anaesthetised obese adults: A randomised controlled study.* *Indian J Anaesth.* 2024 Mar;68(3):267-272. doi: 10.4103/ija.ija_404_23. Epub 2024 Feb 22. PMID: 38476539; PMCID: PMC10926330.
- (al) Singh R, Jain R, Singh MR, **Grewal A**, Singh G. *Anterior approach for sciatic nerve localization: A novel observational pilot study utilizing sonoanatomical landmarks.* *Indian Anaesth Forum* 2024;25:17-21.
- (am) Singh S, Kaur G, Jain R, Luthra N, Sharma N, **Grewal A.** *Perfusion index as a predictor of intraoperative hypotension following subarachnoid block in cesarean section: A prospective, observational study.* *Bali J Anaesthesiol* 2023;7:160-4.
- (an) Sood M, Jain R, Kaur G, Rattan A, Kaur MR, Garg R, **Grewal A** | *Comparative Evaluation of Varying Volumes of Local Anaesthetic Solution in Pericapsular Nerve Group Block(PENG) on Dynamic Pain Relief after Hip Surgeries* | International Journal of Regional Anaesthesia | January-June 2023; 4(1): 20-25 | DOI : <https://doi.org/10.13107/ijra.2023.v04i01.07>



Sr.	Name of faculty	i ten index	h index
(i)	Dr. Anju Grewal	28	16
(ii)	Dr. Mayank Gupta	9	9
(iii)	Dr. Navneh Samagh	5	6
(iv)	Dr. Jyoti Sharma	4	7
(v)	Dr. Gopal Kishan Jalwal	2	3
(vi)	Dr. Jyoti Kanwat	0	1
(vii)	Dr. Shashank Umesh Paliwal	0	3
(viii)	Dr. Gegal Pruthi	1	3
(ix)	Dr. Ankita Dey	2	3
(x)	Dr. Uma Rathi	0	1
(xi)	Dr. Swati Das	0	0
(xii)	Dr. Mohammad Luqman	0	1

12. **Other important Highlights of the department.**

- (a) Number of Conferences Organized* - **2**.
- (b) Number of Workshop(s) Organized* - **1**.
- (c) Number of Thesis Supervised MD/MS* - **9**.
- (d) Any other achievements in number.



Comprehensive NEUROCRITICAL CARE COURSE

Venue : AIIMS, Bathinda
Date : 29 & 30 April, 2023

DELEGATE 2000/-
REGISTRATION FEES

PMc credit hours applied

ORGANIZED BY
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Course Co-ordinator Organizing Chairperson Organizing Secretary
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ANAESTHESIA-01



**DEPARTMENT OF ANAESTHESIOLOGY & CRITICAL CARE
ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA**

11th AIRWAY SEED WORKSHOP
OF AIRWAY MANAGEMENT FOUNDATION
on 12th & 13th August 2023

Time to hone the skills related to airway management
LEARN FROM EXPERTS
Hands on Practice on Manikins

Keynote Presenters: Dr. Anshul Singh, Dr. Anshul Pathak, Dr. Rajiv Gupta, Dr. Gagan Pruthi, Dr. Jyoti Kamal, Dr. Navneet Samrahi, Dr. Shashank Pathwal, Dr. Anshu Ray

ANAESTHESIOLOGY/02



DEPARTMENT OF ANATOMY

Name of the Department	Anatomy
Head of the Department	Dr Priti Chaudhary

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr Priti Chaudhary	Additional Professor & Head	23-8-2019
(b)	Dr Navita Aggarwal	Additional Professor	22-8-2019
(c)	Dr Apurba Patra	Associate Professor	17-08-2019
(d)	Dr Anjali Singal	Associate Professor	20-08-2019
(e)	Dr Vandana Tiwari	Assistant Professor	08.12.2021
(f)	Dr Anju Choudhary	Assistant Professor	18.12.2021

2. Brief Introduction of the department.

(a) **Academics and teaching.** The educational efforts are directed toward undergraduate & postgraduate teaching in gross anatomy, microscopic anatomy, embryology, and neuroanatomy. They also started teaching postgraduate students of other/clinical departments as a part of Vertical Integration to strengthen their basics and hands-on workshops to enhance their skills. We added Anatomage (Virtual Dissection Table), a 3-D Atlas, and other innovative teaching-learning methods to understand the subject better. We established a well-equipped dissection hall, microscopy laboratory, anatomage lab, and museum and research laboratory.

(b) **Vision.**

(i) To be an active partner in the institute's effort to surmount in teaching and research and to impart a strong conceptual and relevant factual knowledge of Anatomy to undergraduate and postgraduate students.

(ii) To impart Clinical Skills to the students by various innovative teaching-learning methods.

(c) **Expansion planned for the future.**

(i) **Clinical Services.** The department plans to conduct more hands-on workshops with various clinical departments. In the spirit of the same, two such hands-on workshops they had already been conducted with the E.N.T. department.

(ii) **Research.** The department plans to establish an electron microscopy laboratory to develop various embalming techniques, especially to start soft embalming techniques and research in relevant surgical anatomy as required and liked by clinicians for novel techniques, and to start Living Anatomy Lab.

3. **Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.**

(a) Number of Papers presented in National Conference*10.

(b) Number of Papers presented in International Conference*-1.



Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
International Conferences.				
(i)	Dr Apurba Patra (PI), Dr Priti Chaudhary (CO-PI)	Exploring Morphological Variations and Clinical Significance of Interconnections Between Flexor Hallucis Longus and Flexor Digitorum Longus Tendons: Cadaveric Analysis	4th International e-conference, BMSe-CON 2023	Departments of Anatomy, Biochemistry, Physiology, and Center for Biomedical Research, AVMC&H, Puducherry, India 13th to 15th Dec 2023
National Conferences.				
(i)	Dr Priti Chaudhary	Virtual Cadaver: an emerging tool for medical education in the current digital era	CME cum Workshop on The Virtual Anatomy Lab: Health Care Simulation on 25 th May 2023	Department of Anatomy, AIIMS Bathinda.
(ii)	Dr Priti Chaudhary	Formulating Research Question, Hypothesis, & Objectives	Research Methodology workshop in September 2023 and March 2024	Research cell, AIIMS Bathinda.
(iii)	Dr Priti Chaudhary	Structure of mature spermatozoa and secondary oocyte	CME cum Workshop on Fertility Preservation in Cancer on 7th October 2023	Department of Obs & Gynae and Department of Anatomy, AIIMS Bathinda
(iv)	Dr Priti Chaudhary (PI), Dr Apurba Patra (CO-PI)	BILATERAL HILAR SUPERNUMERARY ARTERY (Poster Presentation)	5 th conference of North Chapter of Anatomist Society on 30 th Jan 2024	Govt. Medical College, Patiala
(v)	Dr Priti Chaudhary	Topographic Anatomy In Relation To Anaesthetic And Surgical Interventions Around Brachial Plexus	Institutional Clinical meet	AIIMS, Bathinda
(vi)	Dr Apurba Patra, (PI), Dr Priti Chaudhary (CO-PI)	Reappraisal of the Morphological and morphometric diversity of the Psoas Minor Muscle with clinical and developmental insights: Cadaveric analysis	5th CME & Conference of NCAS	Department of Anatomy, GMC Patiala 30th January 2024
(vii)	Dr Anjali Singal (PI), Dr Priti Chaudhary (CO-PI)	Block vertebrae: Tale of two cases	63 rd National Academy of Medical Sciences Conference,	Ramaiah Medical College Bangalore Nov 2023



(viii)	Dr Anjali Singal (PI), Dr Priti Chaudhary (CO-PI)	Cardiomegaly and variations in coronary arteries "All in one": A rare case report"	SGTeAnatCon2023	SGT University Gurugram, April 2023
(ix)	Dr Anjali Singal (PI), Dr Priti Chaudhary (CO-PI)	Fused Cervical Vertebrae: Through the Lens of Anatomist and Radiologist	North Zone Conference of Anatomy	Government Medical College Patiala Jan 2024
(x)	Dr Anju Choudhary	Anomalous variation of left testicular vein"- A Case Report	Eanatcon 2023 5,6 April	SGT University, Gurgaon

4. **Faculty achievements - awards, honours, etc.**

Sr.	Name of faculty	Award/honor	Event	Organized by
(a)	Dr. Priti Chaudhary	<i>Re-elected and continuing as an international member of the Anatomical Society of U.K.</i>		Anatomical Society of U.K.
(b)	Dr Priti Chaudhary	<i>Got the certificate on Successful completion of the "Good Clinical Practice" Program on 17th February 2024.</i>	Good Clinical Practice Workshop	IEC, AIIMS Bathinda
(c)	Dr Priti Chaudhary	<i>Continued working as an Editorial board member As Academic Editor</i>		Journal PLOS ONE (PUBMED indexed)
(d)	Dr Priti Chaudhary	<i>I got the membership of the Society of Medical Anatomists (SOMA) and became an Editorial board member.</i>		Society of Medical Anatomists
(e)	Dr Priti Chaudhary	<i>Got the certificate of excellence in recognition of an outstanding contribution to the quality of the journal</i>		Editor-in-chief of NJCA Journal
(f)	Dr Priti Chaudhary	<i>Appointed as Subject Expert</i>	Faculty interview on 12-3-2024	Baba Farid University of Health Sciences, Faridkot.
(g)	Dr Priti Chaudhary	<i>Received Award of Honor by the students</i>	75 th Republic Day celebrations in Republic Symposium 2024.	AIIMS Bathinda
(h)	Dr Anjali Singal	<i>Best poster award</i>	SGTeAnatCon2023 Anatomy National E-Conference	SGT University Gurugram



5. **Research activities undertaken in the department.**

(a) Number of Projects Sanctioned with the name of Funding Agency with amount *12 (9 Projects Intramural Nonfunded).

(b) Number of projects submitted with the name of Funding Agency*04.

Sr.	Name & designation of PI	Title of the project	Source of support Intramural/ extramural	Status (ongoing/ completed)	Budget
Projects Sanctioned.					
(i)	PI: Dr Monika Kakkar Co-PI: Dr Priti Chaudhary Additional Professor	<i>In vitro study, employing cadaver blood vessels, on the role of calcification in determining the patency of arterial and venous conduits routinely employed for CABG.</i>	SERB (Extramural)	Ongoing	Rs 52,25,000/-
(ii)	PI: Dr Paramdeep Singh, Co-PI: Dr Priti Chaudhary Additional Professor	<i>Utilization of Point-of-Care Ultrasound Imaging for the Management of Patients with Critical Care Needs: Review of Cases and Evidence.</i>	Extramural (Indian National Science Academy)	Ongoing	50,000/-
(iii)	Dr Priti Chaudhary, Additional Professor. As Co-Guide for (STS Project)	<i>Developing an integrated radiological and Cadaveric correlative teaching atlas of the human upper and lower limbs.</i>	ICMR (Extramural)	Completed and report sent to ICMR	40,000/-
(iv)	PI: Dr Priti Chaudhary, Additional Professor Co-PI: Dr Apurba Patra, Dr Anjali Singal	<i>Role of Anatomage Table in Preoperative Surgical Planning-A Comparative Pilot Study.</i>	Intramural	Ongoing	NIL
(v)	PI: DR APURBA PATRA Co-PI: Dr Priti Chaudhary	<i>Assessment of knowledge, attitude, and practice regarding organ donation among undergraduate medical students of various AIIMS in India</i>	Intramural	Completed	NIL
(vi)	PI: DR PRITI CHAUDHARY, DR APURBA PATRA	<i>Assessment of the knowledge, attitude, anxiety episode, and perceived psychological impact of the COVID-19 pandemic on medical undergraduate students</i>	Intramural	Completed	NIL



(vii)	PI: DR APURBA PATRA Co-PI: Dr Priti Chaudhary	<i>Morphometric analysis of cerebral intraventricular sizes in adult north Indian population: A cross-sectional Magnetic resonance imaging study</i>	Intramural	Completed	NIL
(viii)	PI: DR APURBA PATRA Co-PI: Dr Priti Chaudhary	<i>Morphological and morphometric analysis of the Sacral Hiatus using lumbosacral spine radiographs: clinical relevance in Caudal Epidural Anesthesia</i>	Intramural	Completed	NIL
(ix)	PI: DR SHAILENDRA RANA CO-PI: Dr Apurba Patra	<i>Volumetric upper airway analysis using 2-D Cephalogram</i>	Intramural	Completed	NIL
(x)	PI: Dr Anjali Singal Associate Professor CO-PI: Dr Priti Chaudhary	<i>Anatomical study of cervical vertebrae with special reference to uncovertebral joint</i>	Intramural	Ongoing	Nil
(xi)	PI: Dr Anju Choudhry CO-PI: Dr Priti Chaudhary, Dr Anjali Singal	<i>Students' perception of three-dimensional atlas interactive system in learning human anatomy.</i>	Intramural	Ongoing	Nil
(xi)	PI: Dr Anju Choudhry CO-PI: Dr Priti Chaudhary, Dr Anjali Singal	<i>Relationship of acromion morphology with its lateral extension: An anatomical study.</i>	Intramural	Ongoing	Nil
Projects Submitted.					
(i)	PI: Dr Priti Chaudhary, Additional Professor Co-PI: Dr Apurba Patra, Dr Anjali Singal	<i>Exploring Various Embalming Techniques for Optimal Utilization in Anatomy Education and Surgical Workshops in the Punjab region</i>	DST (Extramural)	Submitted	
(ii)	PI: Dr Priti Chaudhary, Additional Professor Co-PI: Dr Apurba Patra, Dr Anjali Singal	<i>Introducing living anatomy into the first-year medical curriculum: A Prospective Analytical Study</i>	ICMR (Extramural)	Submitted	



(iii)	PI: DR APURBA PATRA Co-PI: Dr Priti Chaudhary	<i>AI-Powered Automated Craniofacial Anthropometric Landmark Detection</i>	BIRAC (Extra Mural)	Submitted	27L
(iv)	Dr Vandana Tiwari	<i>Morphometric analysis of clavicle and its correlation with dependent and independent factors in Indian population –a prospective CT Study</i>	Intramural- no funding needed	ongoing	NA

6. Papers and Books/chapters published by the department.

- (a) **Chaudhary P**, Arora KK, Garg S, **Patra A (Corresponding author)**, Sahoo SS. *Parameters Affecting the Kidney Size in Individuals without Known Renal Pathology: an Ultrasonographic Study*. *Maedica (Bucur)*. 2023 Jun;18(2):222-226. doi: 10.26574/maedica.2023.18.2.222. PMID: 37588837; PMCID: PMC10427100.
- (b) **Singal A, Chaudhary P (Corresponding Author), Aggarwal N, Patra A**. *Students' Perception of Newly Experimented "Rangoli Art" in Anatomy Education: A Pilot Study*. *Med Sci Educ*. 2023 Jun 8;33(4):887-892. doi: 10.1007/s40670-023-01812-0. PMID: 37546202; PMCID: PMC10403460. (Impact factor 1.44).
- (c) **Singal A, Chaudhary P**, Singh P. *External occipital protuberance classification with special reference to spine type and its clinical implications*. *Surg Radiol Anat*. 2023 May;45(5):555-561. doi: 10.1007/s00276-023-03133-8. PMID: 36947178 (Impact factor- 1.41).
- (d) **Patra A**, Asghar A, Pushpa NB, **Chaudhary P**, Ravi KS, Kaur H, Przybycień W. *Exploring morphological variations and clinical significance of interconnections between flexor hallucis longus and flexor digitorum longus tendons*. *Trans Res Anat*. 2023, 33:100267. 10.1016/j.tria.2023.100267 (SCOPUS, WOS).
- (e) Arora K, **Chaudhary P (Corresponding author)**. *Functional and radiological outcome of distal tibia fractures managed with expert tibia nail: a prospective clinical study*. *International Surgery Journal Int Surg J*. 2023 Aug;10(8):1366-1372).
- (f) Arora K, Kapila R, **Chaudhary P**. *Comparative efficacy of ultrasonically guided infiltration of a single shot of platelet-rich plasma and triamcinolone acetone in adhesive capsulitis of shoulder joint - a prospective clinical study*. *National Journal of physiology, pharmacy, and pharmacology*. 2024; 14(06):1097-1103.
- (g) **Patra A**, Asghar A, **Chaudhary P**, Ravi KS. *Blending Conventional Learning Approach with Contemporary Visualization Technologies: Prerequisite Toward Evidence-Based Surface Anatomy*. *Med Sci Educ*. 2024 Mar 8;34(3):705-713. doi: 10.1007/s40670-024-02018-8. PMID: 38887400; PMCID: PMC11180074.
- (h) **Patra A**, Asghar A, Pushpa NB, **Chaudhary P**, Ravi KS, Kaur H, Przybycień W, Musiał A, Walocha JA. *Reappraisal of the morphological and morphometric study of the psoas minor muscle with clinical and developmental insights: a cadaveric study*. *Folia Morphologica*. 2024. doi: 10.5603/fm.99128. **(Accepted)**.



- (j) **Aggarwal N, Kaur N, Patra A (Corresponding author), Gupta M.** *Analysis of the Variations in the Morphology, Topography of the Pterion, and Their Implications in Neurosurgery: An Osteometric Study.* Asian J Neurosurg. 2023 Aug 31;18(3):581-586.
- (k) Divya KP, Hari P, Kanwar N, **Aggarwal N**, Dhoat PS, Liu L, Kanwal A, Singh SP. *The Role of the Gut Microbiome and the Hepatic Axis in the Pathogenesis of Metabolic Syndrome and Therapeutics.* Advanced Gut & Microbiome Research. 2023 Oct 17;2023.
- (l) Asad MR, Asghar A, Tadvil N, Ahmed MM, Nazeer M, Amir KM, Nasir N, Shaik RA, **Patra A.** *Medical Faculty Perspectives Toward Cadaveric Dissection as a Learning Tool for Anatomy Education: A Survey Study in India.* Cureus. 2023 Apr 17;15(4):e37713. doi: 10.7759/cureus.37713. PMID: 37206509; PMCID: PMC10191457.
- (m) Asghar A **Patra A (Corresponding author)**, Ravi KS. *Teacher or Researcher: Who Comes First in Medical Academia?* Med Sci Educ. 2023 Aug 23;33(5):1243-1245. doi: 10.1007/s40670-023-01872-2. PMID: 37886294; PMCID: PMC10597902.
- (n) **Patra A**, Asghar A, Pushpa NB, Ravi KS. *A Closer Look at Anatomy Educator Safety: Identifying and Preventing Workplace Hazards: A Narrative Review.* Clin Ter. 2023 Sep-Oct;174(3):436-443. doi: 10.7417/CT.2023.2462. PMID: 37674454.
- (o) **Patra A**, Kaur H, Chhabra U, Asghar A, Balawender K, Pasternak A, Walocha JA. *Reappraisal of the variational anatomy of the vermiform appendix and their possible clinical applicability: a cadaveric analysis.* Folia Morphol (Warsz). 2023 Sep 11. doi: 10.5603/fm.96443. Epub ahead of print. PMID: 37691509.
- (p) Pushpa NB, **Patra A.** Asghar A, Ravi KS. *Revolutionizing Medical Education and Health Care: The Crucial Role of Cross-sectional Neuroanatomy.* National Journal of Clinical Anatomy 12(3):p 119-120, Jul–Sep 2023. | DOI: 10.4103/NJCA.NJCA_117_23.
- (q) Asghar A, Narayan RK, Kumar P, Ravi KS, Tubbs RS, **Patra A**, Naaz S. *Absence of the interthalamic adhesion (ITA) as a neuroanatomical association or risk factor for neuropsychiatric disorders: A systemic review and meta-analysis.* Indian J Psychiatry. 2023 Oct;65(10):985-994. doi: 10.4103/indianjpsychiatry.indianjpsychiatry_744_22. Epub 2023 Oct 16. PMID: 38108053; PMCID: PMC10725209.
- (r) Sheth ABN, **Patra A (Corresponding author)**, Mahajan D. *Anatomical variations and developmental insights of tendons in the first extensor compartment of the hand: Cadaveric study with surgical implications.* Clin Ter. 2024 Jan-Feb;175(1):26-33. Doi: 10.7417/CT.2024.5030. PMID: 38358474.
- (s) Pushpa NB, **Patra A (Corresponding author)**, Ravi KS, Viveka S, Pushpalatha K, Smitha MC. *Reappraisal of the anatomical diversities of the pyramidalis muscle with their potential clinical applicability: cadaveric analysis.* Surg Radiol Anat. 2024 Feb;46(2):203-210. doi: 10.1007/s00276-023-03278-6. Epub 2024 Jan 5. PMID: 38182780.
- (t) Asghar A, Narayan RK, Pushpa NB, **Patra A**, Ravi KS, Tubbs RS. *Exploring the variations of the pancreatic ductal system: a systematic review and meta-analysis of observational studies.* Anat Cell Biol. 2024 Mar 31;57(1):31-44. doi: 10.5115/acb.23.148. Epub 2024 Feb 14. PMID: 38351473; PMCID: PMC10968189.



- (u) Asghar A, **Patra A**, Naaz S, Kumar R, Babu CS Ramesh, Singh B. *Investigating the Integration of Anatomical Variabilities into Medical Education as a Potential Strategy for Mitigating Surgical Errors*. Journal of the Anatomical Society of India 73(1):p 70-81, Jan–Mar 2024. | DOI: 10.4103/jasi.jasi_83_23) (SCOPUS, WOS).
- (v) Kaur H, Walia R, Singh P, Singh K, **Patra A (Corresponding author)**. *CT coronary angiographic approach to delineate terrible triad of coronary-cameral micro fistulae, myocardial bridge, and hypertrophic obstructive cardiomyopathy presenting with angina: a case report*. (Accepted for publication in La Clinica Terapeutica) (PUBMED).
- (w) **Singal A**, *Research in Anatomy “There is nothing new About” Should I do it?”* Acta Scientific Otolaryngol 2023; 5(10):51-52 (Perspective) (Impact factor 0.871).
- (x) **Singal A**, Gupta T, Aggarwal A, *Bilateral Olecranon Spur: A Rare Anatomical Case Report*. J Anat Soc Ind 73(1):89-91 DOI: [10.4103/jasi.jasi_35_23](https://doi.org/10.4103/jasi.jasi_35_23) (Impact factor- 0.4).
- (y) **Singal A, Collaborator** - GBD 2021 Demographics Collaborators. *Global age-sex-specific mortality, life expectancy, and population estimates in 204 countries and territories and 811 subnational locations, 1950-2021, and the impact of the COVID-19 pandemic: a comprehensive demographic analysis for the Global Burden of Disease Study 2021*. Lancet. 2024 Mar 8:S0140- (Impact factor 168-9).
- (z) **Tiwari V**, Ali FB, **Patra A**, Dhiman A, Sharma SK. *The conundrum of olecranon aperture and its relation to the distal end of the humerus in a modern Indian population: An anatomical and surgical perspective*. Morphologie. 2023 Jun;107(357):199-206. doi: 10.1016/j.morpho.2022.08.001. Epub 2022 Sep 17. PMID: 36127255.
- (aa) Zion PS, **Choudhary A**, Zion N, Faizal M. *Morphological and Clinical Significance in Prevalence of Third Head of Biceps Brachii: A Cadaveric Study*. IJMACR. Jul 2023;6(4):154- 159. (Pubmed indexed).

7. Book/ Chapter.

- (a) Book chapter: **Patra A**, Asghar A, KS Ravi, **Chaudhary P (Corresponding Author)**, Rajagopalan A. *Visualization in Craniofacial Anthropometry* in Book: Applications of Three-dimensional Imaging for Craniofacial Region; Springer nature Singapore (Accepted).
- (b) **Chaudhary P**. Contributed as a subject expert in a Textbook of Human Histology; Textbook of Human Embryology and Textbook of *Human Anatomy, Vol. 1, 3 & 5* by Yogesh Sontakke; 2023.
- (c) Gugapriya TS, Guru Thangiah Arun, Vinay Kumar N, Arun Kumar A, **Navita Aggarwal**- *Clinical Anatomy of fingertip*. In Jerome Terrance J. An Evidence-Based Approach to the Fingertip Disease. 1st edition. Thieme publications; 2023:1-14.
- (d) **Aggarwal N**- *Am I Doing It Right*. In T.S. Gugapriya. Demystifying Self-Directed Learning for Health Professions Educator: From Theory to Practice. Mumbai. KUB publications; 2023.
- (e) **Patra A**, Pushpa NB, Ravi KS. *Visualization in Anatomy Education*. Adv Exp Med Biol. 2023;1406:171-186. doi: 10.1007/978-3-031-26462-7_8. PMID: 37016115.



- (f) Pushpa NB, **Patra A**, Ravi KS. *Advances in Microscopy and Its Applications with Special Reference to Fluorescence Microscope: An Overview*. Adv Exp Med Biol. 2023;1406:3-17. doi: 10.1007/978-3-031-26462-7_1. PMID: 37016108.
- (g) Arora J, **Singal A**, Jacob J, Garg S, Aeri R (2024) *A systematic review of lead exposure on mental health*. In: Kumar N, Jha AK (eds) *Lead toxicity mitigation: sustainable nexus approaches*. Springer Nature Switzerland, Cham, pp 51–71. https://doi.org/10.1007/978-3-031-46146-0_4
- (h) **Singal A**. *Image courtesy* (Distal Interphalangeal joint) in the book “An Evidence-based Approach to the Fingertip Diseases” by the Thieme publishers in Chapter “*Clinical Anatomy of Fingertip*”

8. Faculty-wise details of Research Papers, Books/Book chapters, h-index, i10-index etc:

- (a) **Dr Priti**.
- (i) Research papers – **8**.
 - (ii) Book/Book chapter- Authored One book chapter and acknowledged in 5 books.
 - (iii) i10 Index*- **18**.
 - (iv) H index*-**13**.
- (b) **Dr Navita Aggarwal**.
- (i) Research papers: 3.
 - (ii) Book/Book chapter: 2.
 - (iii) i10 Index*: 3.
 - (iv) H index*: 5.
- (c) **Dr Apurba Patra**.
- (i) Research papers: 16.
 - (ii) Book/Book chapter:3.
 - (iii) i10 Index*: 15.
 - (iv) H index*: 11.
- (d) **Dr Anjali Singal**.
- (i) Research papers – 5 (including one case report and one Perspective article).
 - (ii) Book/Book chapter- Authored One chapter, **Image courtesy in Book- One**.
 - (iii) i10 Index*- 18.
 - (iv) H index*-14.
- (e) **Dr Vandana Tiwari**.
- (i) Research papers- 1.
 - (ii) Book/Book chapter nil.
 - (iii) i10 Index* 0.
 - (iv) H index* 2.

(f) **Dr Anju Choudhary.**

- (i) Research papers: 1.
- (ii) Book/Book chapter.
- (iii) i10 Index* : 3.
- (iv) H index*: 2.

14. **Other important Highlights of the department.**

Sr.	Name of CME/Workshop	Dates
(a)	CME cum Workshop on The Virtual Anatomy Lab: Health Care Simulation	25 th May 2023
(b)	Body donation awareness campaign and voluntary blood donation camp	11 th August 2023
(c)	CME cum Workshop on Fertility Preservation in Cancer	7 th October 2023.
(d)	SCAMPER-23 Intercollegiate Competitions (Quiz, Model, Rangoli, Debate, Role Play) for MBBS 1 st Prof students	14-15 th September 2023
(e)	Cadaveric Oath Ceremony	14 th October 2023
(f)	World Anatomy Day (chart & specimen making activities for the first year MBBS Students batch 2023-2024)	16 th October 2023

15. **Number of Thesis Supervised MD/MS*.**16. **Any other achievements in number*.**

17. Procured sufficient cadavers through the Body donation Program in the department for teaching & research purposes.

18. As a part of continuous Medical Education and **vertical integration**, started “**Inter-Departmental Teaching**”; conducted P.G. teaching for Ophthalmology, ENT, Forensic & Orthopedic department on Anatomage with prosections, bones, etc.; **training of PGs and SRs in surgical procedures** like enucleation of the eye (Hands-on cadavers) with Ophthalmology department and temporal bone dissection in collaboration with E.N.T. department.

19. **Dr Priti Chaudhary.**

- (a) Prepared question papers & MCQs of MBBS first Prof, Batch 2022 & evaluated copies as external examiner at **AIIMS Jodhpur and AIIMS Bilaspur.**
- (b) Organized Ethical Committee meetings on 28-7-2023, 29-11-2023, and 24-1-2024 and did the needful as **member secretary, IEC, AIIMS Bathinda and conducted Good clinical practice workshop as Co-ordinator on 17th February 2024.**

20. **Dr Apurba Patra.**

- (a) Assistant Editor, National Journal Of Clinical Anatomy.
- (b) Associate Editor, Cureus Journal Of Medical Sciences.
- (c) Nominated For The Fellowship Of International Medical Sciences Academy (FIMSA).

21. **Dr Anjali Singal.**

- (a) Associate Editor of the international Pubmed-indexed I Journal *Surgical and Radiological Anatomy* (handling Research papers as assigned in the year and till date).
- (b) Editorial board member in Acta Scientific Otolaryngology.
- (c) Got First prize in faculty quiz on vigilance awareness week, organized by the Institute in Nov 2023.



A VIEW OF THE CME-CUM-WORKSHOP ON VIRTUAL ANATOMY LAB: HEALTHCARE SIMULATION 25.05.23



CME-CUM-WORKSHOP ON FERTILITY PRESERVATION IN CANCER ON 07.10.23



BODY DONATION AWARENESS CAMPAIGN AND VOLUNTARY BLOOD DONATION CAMP ON 11.08.23



WORLD ANATOMY DAY (CHART & SPECIMEN MAKING ACTIVITIES) ON 16.10.23



CADAVERIC OATH CEREMONY ON 14.10.23



SCAMPER-23: INTERCOLLEGIATE COMPETITION HELD ON 14—15 SEPT, 2023



DEPARTMENT OF BIOCHEMISTRY

Name of the Department	Biochemistry
Head of the Department	Dr Gitanjali

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr Gitanjali	Professor	17.12.2021
(b)	Dr Monica Kakkar	Additional Professor	11.12.2021
(c)	Dr Sanjay Kumar	Additional Professor	13.08.2019
(d)	Dr Saket Sinha	Associate Professor	09.09.2019
(e)	Dr Himanshu Sharma	Associate Professor	14.08.2019
(f)	Dr Rajani	Associate Professor	14.08.2019
(g)	Dr Archana Nimesh	Assistant Professor	07.09.2022

2. Brief Introduction of the department.

(a) **Vision.** The Department of Biochemistry at AIIMS Bathinda was established in August 2019 with a vision to be recognized as a center for excellence in Biochemistry that provides professional patient care at affordable cost with a holistic approach, competency-based medical education, and research to understand the role of fundamental principles of Biochemistry in human health and diseases.

(b) **Academic Programmes.** The department provides undergraduate teaching to MBBS and BSc Nursing students. Interactive small-group teaching is preferred. An integrated approach is applied to MBBS teaching.

(c) **Postgraduate.** The department has MD and PhD Biochemistry courses that provide comprehensive Clinical Biochemistry and Biomedical Research training. The Department has well-established laboratories with state-of-the-art research facilities. The department provides short-term observerships to students from various universities across the country.

(d) **Cme/Workshops/Events.** To promote an atmosphere of continual learning, the department regularly conducts symposia, holds workshops and conferences, and celebrates national days every year.

(e) **Diagnostic Facilities.** The Department provides round-the-clock diagnostic facilities for routine and special Biochemistry investigations. Newborn screening and maternal prenatal screening have also been started.

(f) The Department is intended to establish interdisciplinary and collaborative research. All department faculties are involved in active areas of study like Stem Cells Biology, Cancer Signalling, HIV-associated secondary complications, and various ICMR/ other national projects.

3. **Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.**

- (a) Number of Papers presented at National Conference*.
- (b) Number of Papers presented at International Conference*.



Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
National conferences/Academic Programmes.				
(i)	Dr Gitanjali	Stem cells: futuristic Medicine -the road ahead	Talk in CME: Stem Cell and Regenerative Medicine	AIIMS Bathinda
		Autoimmunity ... The war within	Invited Speaker in Symposium on Understanding Immune Tolerance and its loss: From bench to clinical implications	Central University of Punjab
		Molecular basis of cancer	Invited Speaker World Mammography Day celebrated	HS Judge Institute of dental sciences and hospital, Punjab University Chandigarh
		Defining the fine link between reproductive hormones and chromosomal aberrations	Invited Speaker at Annual Conference	10 th ACCLMPCON 2024RNT Medical College, Udaipur, Rajasthan
		Role of Immunology in Diseases-	An interactive session in the Immunology Day celebration	AIIMS Bathinda
		Role of miRNA in immunomodulation in patients with PCOS	Annual Conference	50 th Immunocon at AIIMS Delhi
		Resource person for research methodology workshops at AIIMS Bathinda	Writing a research paper	Resource person
(ii)	Dr Monica Kakkar	The laboratory's stake in the dissemination of awareness of newer approaches to glycemic control: Road to actual implementation by the clinic	Panel Discussion	10 th ACCLMP RNT Medical College, Udaipur, Rajasthan
(iii)	Dr Himanshu Sharma	Association of Y-chromosome microdeletion and altered FSH level in Infertile males with spermatogenesis defect	Annual meeting of Association of Clinical Biochemists of India held on Sep 2023	ACBI
(iv)	Dr Himanshu Sharma	Identifying Highly Active Antiretroviral Therapy for Drug-Resistant HIV Variants Prevailing in Indian HIV Population	Annual meeting of Indian Academy of Biomedical Scientists held on Feb 2024	IABS
(v)	Dr. Rajani	Perception, acceptance, and adverse effects of COVID-19 vaccines: Insights from Indian population.	Poster presentation	10 th ACCLMP CON 2024 RNT Medical College, Udaipur, Rajasthan.



(vi)	Dr. Archana Nimesh	Primary and secondary immune responses	Immunology day (29 th April 2023)	Dept of Biochemistry, AIIMS Bathinda
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4. **Faculty achievements - awards, honours, etc.**

(a) Number of Awards Received (only from registered professional organization of national and international repute)*.

(b) Number of Recognitions Received (only from registered professional organization of national and international repute)*.

Sr.	Name of faculty	Award/honour	Event	Organised by
(i)	Dr. Sanjay Kumar	1 st Faculty Best Research Award of the Institute	Annual Day	AIIMS Bathinda
(ii)	Dr. Rajani	MNAMS (Member of the National Academy of Medical Sciences)		National Academy of Medical Sciences (India)
		Chairperson, Student, and Academic Affairs		ACCLMP Punjab chapter

5. **Research activities undertaken in the department.**

Sr.	Name & designation of PI	Title of the project	Source of support Intramural/ extramural	Status (ongoing/ completed)	Budget
Projects sanctioned.					
(a)	Dr Gitanjali	Expression of Interest (EoI) for ICMR's Taskforce on Establishment of Reference Intervals in Indian Population (TERIIP)	ICMR	Shortlisted	Approx. 85 lac
		To assess the beneficial effect of adjuvant growth factor therapy in elderly individuals with chronic congestive heart failure as CoPI	ICMR approved		
		To study the association of circulating biomarkers in ischaemic stroke patients with their clinical outcome- CoPI funded by MRU, GGS Medical College Faridkot.	MRU, G GS MC FARIDKOT	Ongoing	2 lac
(b)	Dr Monica Kakkar	In vitro study, employing cadaver blood vessels, on the role of calcification in determining the patency of arterial and venous conduits routinely employed for CABG	ICMR IIPR small grant		(63 lakhs)
(c)		Health Harms Among Beedi Rollers in India involving five states across India- Multi institutional Project	Johns Hopkins Bloomberg School of Public Health,		(1.25 crore)
		To Enhance Screening, Early Diagnosis and Treatment of Cancer- Multicentric study	ICMR	ongoing	



(d)	Dr Sanjay	To evoke Transplanted Stem cell Survival against Ischemic/Reperfusion injury through Pharmacological Preconditioning with Phosphodiesterase Inhibitors	Science and Engineering Research Board- Department of Science & Technology (SERB-DST) Government of India		
(e)		Expression profiling of MicroRNA in blood samples from various stages of cancer patients as a novel diagnostic and prognostic biomarker for early detection of Cancer	Haryana State Council for Science and Technology (HSCSIT), Department of Science & Technology		
(f)	Dr Himanshu	Extracellular vesicles mediated induction in pro-inflammatory response leading to pulmonary endothelial dysfunction in cystic fibrosis patients	Indian Institute of Medical Sciences (ICMR), New Delhi	Ongoing	Rs 30,000,00
(g)		To assess the impact of endocrine disrupting chemical (EDC) exposure on DNA methylation in infertile males: A multicentric study in India.	DHR	Ongoing	Rs 59,000,00
(h)	Dr. Archana Nimesh	To evaluate the potential of 'Jigsaw technique' as a learning tool in biochemistry for the medical students.	Intramural project	Manuscript submitted	No funding was required
(j)		To evaluate the potential of the concept mapping as a learning tool in biochemistry for medical students.	Intramural project	ongoing	No funding was required
Projects Submitted.					
(a)	Dr Gitanjali	Empirical role of miRNA expression profiling and the plausible role of epigenetic mediated immunomodulation in patients with PCOS	SERB	Submitted	4400342
(b)		An insight into the multifactorial association of genetics, micro-environment, and stress in Premature greying of hair – An observational cross-sectional study	ICMR	Submitted	37,044,975



(c)		Impact of nutrition on immunomodulation in school-going adolescents in North West India -A cross-sectional study.	ICMR	Submitted	17,191,002
(d)		Comparative study of the effect of fluorosis on Bone Mineral Density, Trabecular bone score, and Bone Turnover Markers postmenopausal women.-COPI	Endocrine Society of India (ESI)	Submitted	5 lac
(e)		Analysis of transcriptomics driven biomarkers of different types of psoriasis disease and associated cardiovascular risk factors – A prospective study-COPI	ICMR	Submitted	
(f)		Assessment of body composition across the spectrum of glucose intolerance and impact of metformin, structured exercise plan and meditation on change in body composition and metabolic health- an open-label randomized control trial-COPI	SERB	Submitted	
(g)		To study the effect of sodium-glucose transporter two inhibitors on bone mineral density, trabecular bone score, and bone turnover markers in type 2 DM-COPI	Endocrine Society of India (ESI)	Submitted	5 Lac
(h)	Dr. Sanjay Kumar	We identify Exosomal microRNA as Non-Invasive Tool for Early Diagnosis of Breast Cancer.	ICMR - Initiated research proposal for small extramural grants.	Submitted	82,10,720/-
(j)		Reach, Teach and Impede: Awareness Program for Cancer Prevention in Cancer Belt of India and Identification of biomarker for Early Diagnosis of Breast Cancer.	Institute for Funding under the CSR Scheme of the HEFA	Submitted	96,980,40/-
(k)		Identifying Potential Phytocompounds for evaluating efficacy against Breast Cancer and synergistic role with yoga in treating chemo-induced cardiotoxicity: A comprehensive -	Ayush - ICMR Advanced Centre for Integrative Health Research (AI-ACIHR) at AIIMS	Submitted	50,605,012.00



		Investigating the Regulation of	under Extramural Program.		
(l)		Therapeutic Potential of Exosomes Derived from Pharmacological Preconditioned Mesenchymal Stem Cells against Ischemic/Reperfusion Injury in Myocardial Infarction	Tata Innovation Fellowship.	Submitted	25,000 per month Fellowship
(m)		Investigating the Regulation of Metabolic Reprogramming via Class-IIIHDAC/HIF-1 α axis in response to Fasting and Chemotherapy in ER/PR, HER2, Triple-Negative Breast Cancer.	ICMR-small Extramural Grant.	Submitted	99,83,080.00/-
(n)	Dr Saket	Study of association between Non-Alcoholic Fatty Liver Disease (NAFLD)/Metabolic associated Fatty Liver Disease (MAFLD) and Chronic Kidney Disease (CKD) across diverse stages via radiological and biochemical profiling.	Intramural	Submitted	
(o)	Dr Himanshu Sharma	Designing, Synthesis, and Development of Novel CFTR Modulators for the Treatment of Cystic Fibrosis Patients: Therapeutic Approach for CF Patients with Novel and Rare Mutations	ICMR	Submitted	50,000,00
(p)		To investigate the association of alcohol and polymorphism in genes of one carbon pathway enzymes with the pathogenesis of esophageal squamous cell carcinoma via epigenetic modulation.	ICMR	submitted	45,00,000
(q)	Dr Rajani	Association between serum pesticides, heavy metals and risk of breast cancer in the Malwa region of Punjab: A case-control study	ICMR	Submitted	



6. **Papers and Books/chapters published by the department.**

Sr.	Journal
(a)	Gill GS, Kaushik M, Kharb S, Goyal G , Malik U. Exploratory role of serum FGF-8 as a marker of bone metastasis in tumor progression. International Journal of Medical Biochemistry. 2024 Jan 1;7(1).
(b)	Chawla S, Goyal G , Grover S, Nibhoria S, Kaur J. Evaluation of Human Epididymis Protein 4, Risk of Ovarian Malignancy Algorithm, and Risk of Malignancy Index Efficiency for Ameliorating Sensitivity and Specificity for Differentiating Benign from Malignant Adnexal Masses. Journal of Laboratory Physicians. 2023 Sep 25.
(c)	Rani S, Singh K, Banipal RP, Goyal G . Biochemical analysis of saliva in head and neck cancer patients receiving definitive chemoradiotherapy. Journal of Cancer Research and Therapeutics. 2023 Jul 19.
(d)	Kumar U, Gitanjali , Sarita, Singh K, Singh J, Assessment of extracted DNA from whole blood and buffy coat in healthy individuals. Int J Clin Biochem Res 2023;10(2):179-183
(e)	Kumar S (First & Corresponding author) , Yadav V, Sharma N, Sethi A HypoxamiR-210-3p regulates mesenchymal stem cells proliferation via P53 & Akt. Molecular & Cellular Biology. 2023
(f)	Ghai P, Magan D, Aneja J, Sharma H , Choudhary A. (2023) Effect of alcohol-dependence on cognitive performance in middle-aged men: Preliminary results. Indian J of Physiol and Pharmacology. 2023; 67:4; 303-309.
(g)	Kalsi P, Aggarwal N, Shukla K, Sharma J, Goyal G, Prasad R, Sharma H (corresponding author) , 2024; SARS-CoV-2 Associated Impact on Reproductive Health: A Global Perspective. Indian J of Clinical Biochem, https://doi.org/10.1007/s12291-024-01243-7
(h)	Kumawat R , Nimesh A, Jalandra R, Agrawal S, Srinivas H, Ahirwar A. Perception, acceptance, and adverse effects of COVID-19 vaccines: Insights from Indian population. Journal of Family Medicine and Primary Care 13(3):p 1062-1067, March 2024. DOI: 10.4103/jumps.jfmpc_1668_23
(j)	Riaz Fatima, Nimesh A . Correlation between HbA1c and lipid profile in diabetes: a primary health concern in Aseer, Saudi Arabia. Epidemiology and Society Health Review. July 2023; Vol. 5 (2): 60-68
(k)	Book chapter
(l)	Futuristic trends in Medical Sciences IIP Series, volume 3- Ovarian carcinogenesis, underlying mutations and diagnostic modalities
(m)	2nd South Asian Edition of Lippincott Illustrated Reviews Biochemistry-Associate Editor
(n)	Menia R, Gandhi S, Gupta I editors. India: JAYPEER; 2023.Review of Medical Laboratory Techniques. (Dr. Rajani As a co-author)

7. **Details of Faculty.**

	<u>Dr Gitanjali</u>	<u>Dr Monica</u>	<u>Dr Sanjay</u>	<u>Dr Saket</u>	<u>Dr Himanshu</u>	<u>Dr Rajani</u>	<u>Dr Archana</u>
Publications	4	Nil	1	Nil	2	1	1
Book/Book chapter	1	1	Nil	Nil	Nil	1	Nil
i10 Index	9	2	-	-	9	4	5
H index	9	4	-	-	9	3	6

8. **Other important Highlights of the department.**

- (a) Postgraduate sensitization program on Blood gas analysis organised by the Department of Biochemistry on 4th January 2024.
- (b) Good clinical lab practices for PG students.

9. **Number of Conferences Organized* -01.**

10. 10th Pre-conference CME of Punjab Chapter of ACCLMP on 'Stem Cell: Regenerative Medicine' organized by Dept. of Biochemistry on 9th Dec, 2023.



11. **International Days Celebrated.**

- (a) International Day of Immunology organized by Dept of Biochemistry on 29th Apr 2023.
- (b) World DNA Day organized by Dept of Biochemistry on 25th Apr, 2023.
- (c) Medical Lab Professional Week celebration.

12. **Number of Workshop Organized*.**

13. **“DNA Decoded: DNA isolation and quantitation”** workshop during the undergraduate medical conference INFUSE, organized at AIIMS Bathinda from 24th to 26th Nov 2023.

14. **Number of Thesis Supervised MD/MS*: 4.**



DEPARTMENT OF BURNS & PLASTIC SURGERY

Name of the Department	Department of Burns & Plastic Surgery
Head of the Department	Dr. M Altaf Mir

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr. Mohd. Altaf Mir	Associate professor & head	27 July 2021
(b)	Dr. Rajesh Kumar Maurya	Assistant professor	02 August 2021
(c)	Dr. Sarabjot Singh Anant	Assistant professor	15 arch 2024

2. Brief Introduction of the department.

(a) The Department of Burns & Plastic Surgery at the All-India Institute of Medical Sciences Bathinda Punjab was established in July 2021, with Dr. M. Altaf Mir joining as Associate Professor on the 27th of July 2021.

(b) The Department is rapidly increasing the spectrum of reconstruction and undertaking major reconstruction surgeries in head and neck cancer patients, hand and lower limb injuries, post-skin malignancy defects, oculoplastic surgery, and almost all the congenital and acquired defects and deformities of anatomical body parts.

(c) Micro-vascular tissue transfers like free flaps, repair of nerve and vessel injuries, brachial plexus surgery, cleft and craniofacial surgeries, and lymphedema surgery are routinely done. Corrective surgeries and rehabilitation of post-burn deformity, post-burn scarring, and limb deformity are done. Pediatric Congenital deformities like syndactyly, polydactyly, hypospadias, cleft lip-palate, and club hand are being corrected. Aesthetic Surgeries like otoplasty, rhinoplasty, abdominoplasty, breast reduction, gynecomastia correction, and scar revision are being done. A minor surgical procedure room has been set up in the outpatient clinic and the Burns & Plastic Surgery Ward.

(d) The Department plans to establish a microvascular training lab for teaching and training residents and a dedicated 55-bedded Burn unit with modern facilities, including HDU and dedicated Burn OT (under CSR), for acute burn patients shortly.

(e) The department has already approved admission for One M.Ch. Superspecialist seats per session (semester) and post-doctoral certificate courses (PDCC) are two per year. The department has also started short (3 months) and long (6 months) observership courses in Hand and Brachial Plexus and Maxillofacial surgery.

(f) The department plans to start a 6-year course in Plastic and Reconstructive Surgery and a Post-doctoral fellowship in Cleft and Craniofacial Surgery soon.

3. Lectures delivered/ papers presented by the faculty members in academic programs/ conferences of national/International repute.

(a) Number of Papers presented at National Conference – 3 papers and two posters.



Sr.	Name of faculty	Title/Topic	Details of the Event	Organized by
International conferences.				
(i)	Dr Mohd Altaf Mir	Myths in Plastic Surgery	CME and Celebration of World Plastic Surgery Day 2023	Department of Burns and Plastic Surgery, AIIMS Bathinda, 15th July 2023
(ii)	Dr Mohd Altaf Mir	Precision Palmar Portal: Navigating Minimal Access Carpal Tunnel Release	46th Annual Conference of Indian Society for Surgery of Hand, ISSHCON 2023	Indian Society for Surgery of Hand and Plastic Surgery, at PGIMER Chandigarh, 8th to 10th September 2023
(iii)	Dr Mohd Altaf Mir	Surgical Site Infection: An Overview	10th Annual Conference of Association of Physicians of India (Malwa Region), MAPICON 2023	Association of Physicians of India (Malwa Region), 21st to 24th September 2023

4. **Faculty achievements –awards, honours, etc.**

(a) Number of awards received (only from registered professional organization of national and international repute) * 2.

Sr.	Name of faculty	Award/honour	Event	Organised by
(i)	Dr Mohd Altaf Mir	Award of Appreciation	World Plastic Surgery Day 2023	Department of Burns and Plastic Surgery, AIIMS Bathinda, 15th July 2023
(ii)	Dr Mohd Altaf Mir	Award of Honor	46th Annual Conference of Indian Society for Surgery of Hand, ISSHCON 2023	Association of Physicians of India (Malwa Region), 21st to 24th September 2023

(b) Number of Recognitions Received (only from registered professional organization of national and international repute) * 3.

Sr.	Name of faculty	Recognition	Event	Organised by
(i)	Dr Mohd Altaf Mir	Conferred as an International Member of the American Society of Plastic Surgeons (ASPS)	Annual conference of ASPS 2023	American Society of Plastic Surgeons (ASPS)
(ii)	Dr Mohd Altaf Mir	Conferred as an International Member of the American Society of Surgeons for Hand (ASSH)	Annual conference of ASSH 2024(January)	American Society of Surgeons for Hand (ASSH)
(iii)	Dr Mohd Altaf Mir	Conferred as a Life Member of the Indian Society of Wound Management (ISWM)	Annual conference of Indian Society of Wound Management (ISWM) 2023.	Indian Society of Wound Management (ISWM)



5. **Books/chapters published by the faculty.**

- (a) **Book Chapters** 5.
- (b) **Books** 1.

Sr.	Book Chapters/ Books Published.
(i)	Dr Mohd Altaf Mir & Dr Rajesh; Book chapter ‘ Pressure Ulcers: Risk Factors, Prevention and Surgical Management ’ in book New Advances in Medicine and Medical Science Vol. 2, 23 May 2023, Page 131-144. http://dx.doi.org/10.9734/bpi/namms/v2/19327D .
(ii)	Dr Mohd Altaf Mir; Book chapter ‘ Soft Tissue Tuberculosis of Hand: Diagnosis and Management ’ in book New Advances in Medicine and Medical Science Vol. 5, 13 June 2023, Page 81-94. https://doi.org/10.9734/bpi/namms/v5/19507D .
(iii)	Dr Mohd Altaf Mir; Book chapter ‘ Cutis Verticis Gyrata: Clinical Features, Diagnosis and Management ’ in book Current Progress in Medicine and Medical Research Vol. 4, 24 July 2023, Page 101-118. https://doi.org/10.9734/bpi/cpmmr/v4/19758D . (Dr Altaf Mir)
(iv)	Dr. Mohd Altaf Mir & Dr. Rajesh; Book chapter ‘ Summer Burns: Causes, Prevention, Pre-Hospital Care and Transport to Burns Unit ’ in book Current Innovations in Disease and Health Research Vol. 6, 13 September 2023, Page 109-125. https://doi.org/10.9734/bpi/cidhr/v6/19876D .
(v)	Dr Mohd Altaf Mir; Book chapter ‘ Shattered Faces, Surprising Discoveries: Unravelling the Enigma of Traumatic Facial Fracture Leading to Pneumopericardium ’ in book Medical Research and Its Applications Vol. 6, 3 June 2024, Page 90-96. https://doi.org/10.9734/bpi/mria/v6/840 .
(vi)	Dr Mohd Altaf Mir; Book ‘ Key Flaps in Plastic Surgery ’ 5 August 2023 with ISBN 978-81-19491-28-5 (Print), ISBN 978-81-19491-29-2 (eBook). https://doi.org/10.9734/bpi/mono/978-81-19491-28-5 .

6. **Papers Published.**

Sr.	Paper
(a)	Mir MA, Mahakalkar SS, Rashim M. Modified Combined Physiological and Debulking Procedure for Lower Limb Lymphedema to Achieve Both Immediate and Sustained Results in Lymphedema. The International Journal of Lower Extremity Wounds. 2023;22(1):194-199. https://10.1177/15347346211002367 PMID: https://pubmed.ncbi.nlm.nih.gov/33881960 (International). 1 st & Corresponding Author. Case Report
(b)	Mir MA. Artificial Intelligence Revolutionizing Plastic Surgery Scientific Publications. Cureus. 2023 Jun 21;15(6): e40770. https://10.7759/cureus.40770 PMID: https://pubmed.ncbi.nlm.nih.gov/37485221 (International). 1 st & Corresponding Author. Editorial
(c)	Mir MA, Maurya R. Precision and Progress: Machine Learning Advancements in Plastic Surgery. Cureus. 2023 Jul 16;15(7): e41952. https://10.7759/cureus.41952 PMID: https://pubmed.ncbi.nlm.nih.gov/37588323 (International). 1 st & Corresponding Author. Editorial
(d)	Mir MA. Data-Driven Enhancements: Unleashing the Power of Data Science in Plastic Surgery. Cureus. 2023 Jul 24;15(7): e42357. https://10.7759/cureus.42357 PMID: https://pubmed.ncbi.nlm.nih.gov/37621827 (International). 1 st & Corresponding Author. Editorial
(e)	Mir MA, Jain J, Kumar P, Maurya R, Rana MK, Goswami AG. Bulldog Scalp Syndrome. Indian J Plast Surg. 2023 Nov 24;56(6):544-547. https://10.1055/s-0043-1776897 PMID: https://pubmed.ncbi.nlm.nih.gov/38105879 (National). 1 st & Corresponding Author. Case report
(f)	Goyal D, Madaan A, Goyal N, Mir MA. Non-perforated Traumatic Pneumoperitoneum in Maxillofacial Trauma: A Compelling Case Report. Cureus. 2024 Jan 10;16(1):e52073. https://10.7759/cureus.52073 PMID: https://pubmed.ncbi.nlm.nih.gov/38344563 (International). 4 th & Corresponding Author. Case report
(g)	Wander A, Meena AK, Peer S, Pilania RK, Chhabra P, Bhardwaj NK, Mir A, Gulati S. Beyond Fever: Central Nervous System Vasculitis and Intracranial Bleed in a Child with Kawasaki Disease. Indian J Pediatr. 2024 Jun;91(6):642.



	https://10.1007/s12098-023-05001-0 PMID: https://pubmed.ncbi.nlm.nih.gov/38175496 (National). 1st & Corresponding Author. Case report
(h)	Goel A, Kapatia G, Mir MA , Rana MK. Isolated intramuscular cysticercosis of the forearm masquerading as malignancy. BMJ Case Rep. 2024 Feb 6;17(2):e256110. https://10.1136/bcr-2023-256110 PMID: https://pubmed.ncbi.nlm.nih.gov/38320826 (International). 3rd Author. Case report

Sr.	Parameter	Dr. Altaf Mir (Associate Professor)	Dr. Rajesh K Maurya (Assistant Professor)	Dr. Sarabjot Singh Anant (Assistant Professor)
(i)	Research papers	57	14	6
(ii)	Book chapter	7	2	0
(iii)	Books	2	0	0
(iv)	Number of citations	218	6	1
(v)	i10 Index	7	-	0
(vi)	h-index	8	2	1

7. Any other achievements in number*.

(a) 1 STS project supervised by Dr. Mohd Altaf Mir.

8. **Number of Conference Organized.** 01 National Conference/CME & WORLD PLASTIC SURGERY DAY celebration on 15 July 2024.



CME & WORLD PLASTIC SURGERY DAY CELEBRATION ON 15 JULY 2024



DEPARTMENT OF CARDIOLOGY

Name of the Department	Cardiology
Head of the Department	Dr Bhupinder Singh

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr Bhupinder Singh	Additional professor and head	01 April, 2022
(b)	Dr Suraj Kumar	Assistant Professor	16 August, 2021
(c)	Dr Tejinder Singh	Assistant Professor	08 December 2023

2. Brief Introduction of the department. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
<u>National Conferences.</u>				
(a)	Dr. Bhupinder Singh	MAPICON	21 to 24 Sept 2023	AIIMS Bathinda
(b)	Dr. Bhupinder Singh	ICCCON 2023	29 th , 30 th September and 1 st October 2023	Indian College of Cardiology, Bengaluru
(c)	Dr. Suraj Kumar	MAPICON	21 to 24 Sept 2023	AIIMS Bathinda

3. Research activities undertaken in the department.

Sr.	Name & designation of PI	Title of the project	Source of support <u>Intramural/ extramural</u>	Status <u>(ongoing/ completed)</u>	Budget
<u>Projects Sanctioned.</u>					
(a)	Dr Bhupinder Singh (Additional professor and head)	Effectiveness of Yoga Based Cardiac Rehabilitation (Yoga-CaRe) in Heart failure: A Randomized Controlled Clinic Trial.”	Extramural: ICMR	Ongoing	16 lakhs
(b)	Dr Bhupinder Singh (Additional professor and head)	Treatment Optimisation for Blood Pressure with Single Pill Combinations in India (TOPSPIN)	Extramural: Imperial College of London	Ongoing	2,50,160/-
<u>Projects submitted.</u>					
(c)	Dr Bhupinder Singh	Development of an electrochemical-based multiplex point of care device (POCD) for the assessment of platelet quality	Extramural: Biotechnology Industry Research Assistance Council (BIRAC)	Submitted	
(d)	Dr Bhupinder Singh Dr Suraj Kumar	Impact of Yoga therapy in heart failure patients with preserved ejection fraction: A Randomised controlled study.	ICMR	Submitted	



4. **Papers and Books/chapters published by the department.**

(a) **Kumar Suraj**, Kansal M, Soni A, Chaudhary D, **Singh Bhupinder**. Symmetrical peripheral gangrene and Roth spots in a patient with infective endocarditis. Clin Med (Lond). 2023 Nov;23(6):633-634.

(b) Giant Aortic Arch Aneurysm Presenting as Ortner's Syndrome in Polycystic Kidney Disease: A Radiological Perspective. Arvinder Wander • Vandeeep S. Basra • **Tejinder S. Malhi** • Ramandeep Singh.

(c) To Study Comorbidities in Heart Failure - Prevalence, Effect on Functional Status and Outcome in Indian Population Nitinkumar Patel, **Tejinder Singh Malhi**, Bharat Singh Sambyal, Komal Patel. International Journal of Pharmaceutical and Clinical Research 2023; 15(11); 1450-1455.

(d) Study of Clinical Profile, Risk Factors and Outcome of Acute Myocardial Infarction- A Rising Threat to Young Adults in Western India. Nitinkumar Patel, Bharat Singh Sambyal, **Tejinder Singh Malhi**, Komal Patel. International Journal of Pharmaceutical and Clinical Research 2023; 15(11); 1446-1449.

5. **Other important Highlights of the department : Nil.**

(a) Dr Bhupinder Singh: i10 Index- 17; H index- 14.

(b) Dr Suraj Kumar: i10 Index- 2; H index- 5.

(c) Dr Tejinder Singh Malhi: i 10 index- 1 ;H index- 2.

6. **Number of Thesis Supervised MD/MS*.**

(a) Dr. Bhupinder Singh: 2 theses for DM- cardiology course as a guide.

(b) Dr Suraj Kumar: 1 thesis for MD medicine as co-guide.

7. **Any other achievements in number* : Nil.**



DEPARTMENT OF CARDIOTHORACIC AND VASCULAR SURGERY

Name of the Department	Cardiothoracic and vascular surgery
Head of the Department	Dr. Rajiv Kumar

1. **Faculty Details.**

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr. Rajiv Kumar	Professor and HOD	08-12-2022
(b)	Dr. Klien Dantis	Assistant Professor	13-05-2022
(c)	Dr. Dilrag Dhindsa	Assistant Professor	17-03-2024

2. **Brief Introduction of the department.** The vision is to provide tertiary-level care for our patients undergoing surgical procedures. We offer a well-rounded cardiac thoracic and vascular surgical education, providing training in all facets of our specialty. Since the department's inception, the following procedures have been performed regularly.

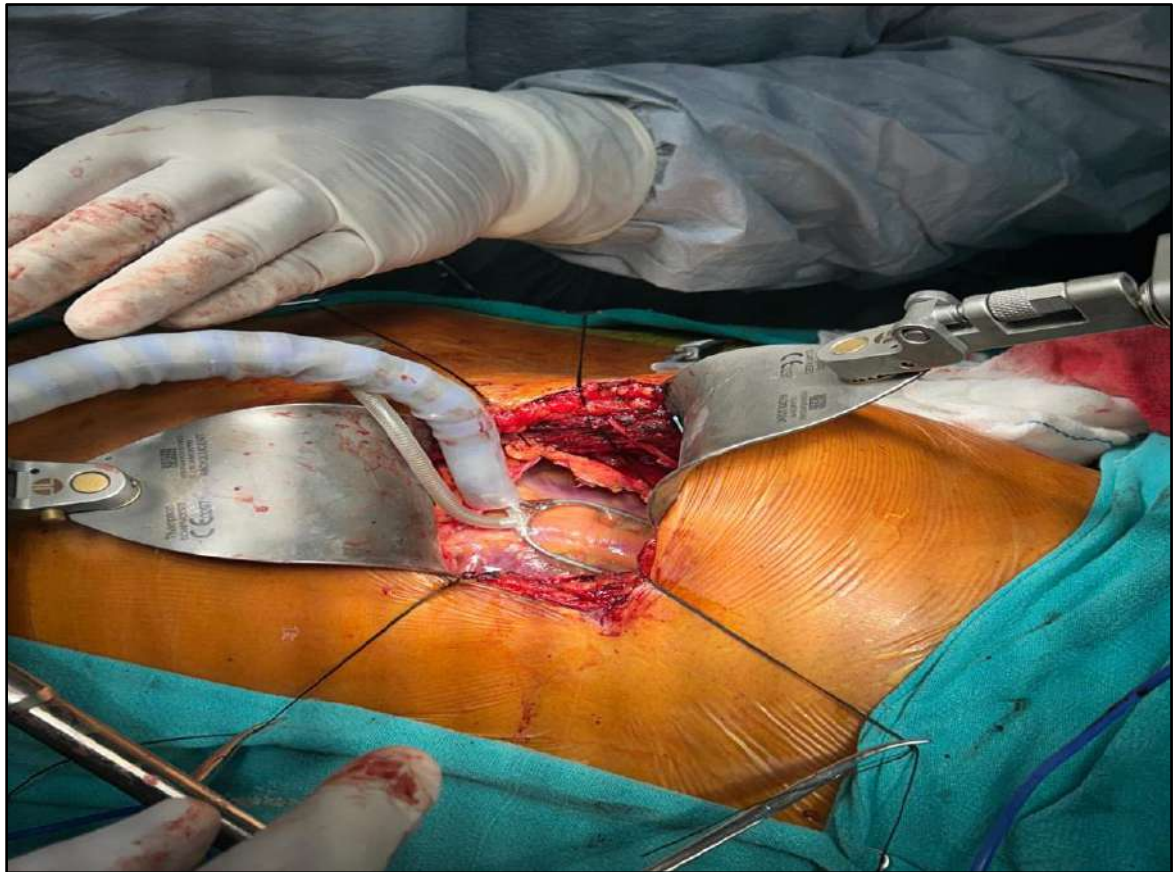
- (a) Beating Heart coronary artery bypass grafting.
- (b) Minimal invasive CABG.
- (c) Congenital cardiac surgeries.
- (d) Thoracic tumors.
- (e) Lobectomies.
- (f) Decortication.
- (g) ECMO and surgical treatment of end-stage heart failure.
- (h) Video-assisted thoracoscopic surgery.

3. We strive to achieve excellence in patient care, clinical and basic research on cardiac thoracic and vascular origin diseases, and education for the next generation of cardiothoracic and vascular surgeons.

4. **Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.**

- (a) Number of Papers presented in National Conference* - 02.

Sr	Name of faculty	Title/Topic	Details of the Event	Organised by
National Conferences.				
(i)	Dr. Rajiv Kumar	Surgical Revascularization	21-24 September, 2024	API(Malwa Branch with AIIMS Bathinda)
(ii)	Dr. Klien Dantis	Digital drainage/suction for chest tube	17 October, 2023	Indian Society of Thoracic Surgery



MID-CABG

BENTALL'S PROCEDURE



MITRAL VALVE REPLACEMENT



ECMO



DEPARTMENT OF COMMUNITY & FAMILY MEDICINE

Name of the Department	Community & Family Medicine
Head of the Department	Dr. Rakesh Kakkar

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr. Rakesh Kakkar	Professor & Head	28-12-2021
(b)	Dr. Ramnika Aggarwal	Additional Professor	22-08-2019
(c)	Dr. Pravin Pisudde	Additional Professor	21-10-2023
(d)	Dr. Ankita Kankaria	Associate Professor	20-08-2019
(e)	Dr. Madhur Verma	Associate Professor	14-08-2019
(f)	Dr. Soumya Swaroop Sahoo	Associate Professor	20-08-2019

2. Brief Introduction of the department.

(a) The Department of Community and Family Medicine at AIIMS Bathinda is committed to enhancing public health through comprehensive medical education, research, and community service. Established to address healthcare needs at the grassroots level, the department prioritizes preventive care, health promotion, and chronic disease management. Our programs are designed to train future healthcare professionals to effectively serve diverse populations, particularly in rural and underserved areas.

(b) We offer a robust curriculum that integrates clinical practice with community health initiatives, ensuring our students are well-prepared to navigate the complexities of family medicine. Our dedicated faculty members are focused on advancing the field through innovative research and active participation in community outreach programs. By promoting a holistic approach to healthcare, the Department of Community and Family Medicine at AIIMS Bathinda strives to foster healthier communities and enhance the overall quality of life for individuals and families throughout the region.

(c) The initiatives and practices outlined in the attached document showcase our ongoing efforts and successes in community health initiatives, reinforcing our dedication to improving health outcomes in our region.

3. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

Sr.	Name of faculty	Title/Topic	Details of the Event	Organized by
<u>International Conferences.</u>				
(a)	Dr. Madhur Verma	Community Interventions in Obesity”	SLENDO 2023 Congress	The Sri Lanka College of Endocrinologists (SLCE), jointly with the Society for Endocrinology (SfE)



National Conferences.				
(a)	Dr Rakesh Kakkar	Panelist in National Tobacco Control Programme (NTCP) in India THE UNION	EFICON 2023 on (30 th Sep – 1 st Oct 2023)	Goa Medical College, Bambolim, Goa
(b)		Panelist for a scientific session on Tobacco control initiatives.	68 th Annual National Conference of Indian Public Health Association, 15-17 March 2024, Manali, Himachal Pradesh, India	IGMC, Shimla, HP
(c)		Resource faculty in 16th Annual Conference of IAPSM- Punjab Chapter	GERI-CON 2023 On 7th October 2023	Department of Community Medicine Government Medical College & RH, Patiala
(d)		Served as Chairman of the <i>Scientific Committee and Guest Speaker</i>	10 th Annual Conference of the Association of Physicians of India in Association with AIIMS Bathinda MAPICON 21 st -24 th September 2023	AIIMS Bathinda
(e)		Panelist in scientific session	26 th Annual Conference of North Zone IAPSMCON 2023	Medical College, Mullana, Ambala
(f)	Dr. Ramnika Aggarwal	Myths and Beliefs about Cancer Causation and Prevention: a cross-sectional study	4 th IAPSM Young Leaders' National Conclave 2023	DMCH Ludhiana
(g)		Role of Primary Care Physicians in Preventive Oncology	MEDICON 2023	MMU Solan
(h)		Presented a Guest Lecture on the topic of 'Preparedness for water-borne diseases due to Floods' in Punjab	for MO, CHO, ANM, ASHA in Civil Hospital- July 2023	
(j)		Presented a Guest Lecture on 'Healthy Eating for Prevention of NCD.'	Organized for College students- MRSPTU, Bathinda	AIIMS Bathinda
(k)		Presented a Guest Lecture on the topic of 'Nutrition in Disaster Situation'	Dated: 6-7 July 23	Mahatma Gandhi State Institute Public Administration
(l)	Dr. Pravin Pisudde	Basic of Bibliometric Analysis	IAPSM National Conference	KMC Mangalore Karnataka
(m)		Presented an oral paper	IPHACON	Manali



(n)	Dr. Madhur Verma	Invited as a speaker to Deliver a lecture “on motivational tools for managing obesity.”	EPIC (Empowering Physicians In International Practices For Advance Diabetes Care)” on 15th and 16th April 2023	Hotel Hyatt Regency, Chandigarh.
(o)		Contributed as an expert	multi-stakeholder deliberation on “Reach HTN,” 25th April 2023	BHU, Varanasi.
(p)		Attended two-day training workshops	yellow fever vaccination clinic	APHO New Delhi
(q)		Presented an oral paper	IPHACON on 15-17 March 2024	Manali
(r)		Resource faculty	ESCION 2023 (),	Hyderabad 14-17 Dec 2023
(s)		Expert talk	WOMENCON, Feb 2024 ()	Prayagraj
(t)		Expert on developing an international consensus statement on Physical Activity and Nutrition	RSSDI 16-19 Nov 2023	, Mumbai
(u)		Panelist	Round Table Conference on Tribal Health	GMC Srinagar (7th Oct 2023)
(v)		Facilitated the organization of a national workshop	Workshop on Environmental Surveillance & Health in India in collaboration with SWASTI India. 11th February 2024	Chandigarh
(w)	Dr Ankita Kankaria	Presented an oral paper	IAPSM National Conference	KMC Mangalore Karnataka
(x)		Invited as a faculty in	AIIMS Oncology Conclave 2024,	New Delhi (February 2024)
(y)		Mentor for Medical Device Hackathon 2023 at	Lovely Professional University	Jalandhar (May 2023)
(z)	Dr Soumya Swaroop Sahoo	Resource faculty, Research Methodology Workshop	ARMSCON, PGIMS Rohtak	Rohtak (October 2023)

4. Faculty achievements –awards, honors, etc.

Sr.	Name of faculty	Award/honor	Event	Organized by
(a)	Dr Pravin Pisudde	Chief Co-coordinator for Basic of Bibliometric Analysis	IAPSM National Conference	KMC Mangalore Karnataka
		Selected for FAIMER Fellowship course	TICS, Mumbai	
		Pursuing Post Graduate Diploma in Public Health Nutrition	PGDPHN	NIHFW, New Delhi



(b)	Dr Soumya Swaroop Sahoo	Fellowship Palliative Care	(Jan- Aug 2023)	Institute of Palliative Medicine, Kozhikode, Kerala (WHO Collaborating Centre for Palliative Care and Long-Term Care)
(c)	Dr Ankita Kankaria	Best Oral presentation	IAPSM National Conference	KMC Mangalore Karnataka

5. **Research activities undertaken in the department.**

<u>Sr.</u>	<u>Name & designation of PI</u>	<u>Title of the project</u>	<u>support Intramural/extramural (please mention details)</u>	<u>Status (ongoing/completed)</u>	<u>Budget</u>
<u>Projects Sanctioned.</u>					
(a)	Dr Rakesh Kakkar	Occupational health Hazards among Beedi rollers in India- Mixed method approach	Extramural, JHU (Multisite as PI)	ongoing	1.25 Cr
		"Sentinel Surveillance for zoonotic diseases" under National One Health Programme for prevention and control of zoonosis (NOHPPCZ)/	Extramural, NCDC as PI	ongoing	17.8 Lakh
		Community Hands-Only CPR Training a Prospective Cohort Study.	Extramural, AHA as PI	ongoing	12 Lakh
		Feasibility study on Introduction of Mathru Samman pant to Increase client satisfaction in the labor room.	Extramural, ICMR (Multicentric) as Site PI	ongoing	
		Factors associated with sudden deaths among adults aged 18–45 years, India: Multicentric matched case-control study	Extramural, ICMR as site PI	Completed	50,000/-
		Assessment of food outlets in Schools and colleges as per Eat Right Campus guidelines about healthy lifestyle practices of students: Mixed Method Study	Guide for STS, ICMR Project	Completed	



(b)	Dr Madhur Verma	Trends and patterns in the epidemiology, risk factors, and impact of T2DM on premature morbidity and mortality rates in India- a secondary data analysis using national datasets.	Extra-mural	Ongoing	
		Noncommunicable Disease Services in the Health Facilities of Employees' State Insurance Corporation in India – A Situational Analysis	Extra-mural	Completed	
		Utility of m-Health app and associated mobile phone addiction among the smartphone users- a cross-sectional assessment. (Reference ID: 2022-08640)	Guide for STS, ICMR Project	Completed	50,000/-
(c)	Dr Soumya Swaroop Sahoo	Scaling up partner testing of index PLHIV in Bathinda district: A pragmatic trial (PI)	Extramural	Completed	
		Validation of the Indian (Hindi) version of the Life-Space Assessment in community-dwelling older adults (Site PI)	Intramural	Completed	
(d)	Dr Ankita Kankaria	Acceptability and feasibility of Menstrual Cup among married women of reproductive age: a quasi-experimental study	Extramural	Ongoing	
		Study on multiple long-term chronic conditions among pregnant women in a rural block of Punjab, North India	Intramural	Ongoing	
		Assessment of Health Status, Psychological Profile, and Lifestyle Habits of Indian medical graduate students in a tertiary care institute in north India	Intramural	Ongoing	
		Assessment of knowledge and perception regarding Menstrual Cups among students and health care providers at a Tertiary Care Institute in North India (ME-CUP).	Guide for STS, ICMR Project	Completed	50,000/-



Projects Submitted.					
(a)	Dr Ramnika, Additional Professor	Effect of Millet Enriched Diet and Yoga Interventions in Management of Polycystic Ovary Syndrome (PCOS) - A Cluster Randomized Control Trial in Malwa Region of Punjab.	Extramural-ICMR		
		Trauma Intervention Program in Schools	Extramural-ICMR		
		Consumption of Trans Fats in the adult population of Bathinda and its association with Noncommunicable diseases: a population-based study	Extramural-ICMR		
		A Multicentric Study on the Indian Child Growth Reference Development Research Initiative: Punjab State	Extramural-ICMR		
		Effectiveness of Supportive Homeopathic Medicine in Tuberculosis Patients Undergoing Anti-Tubercular Therapy: A Double-Blinded RCT	Extramural-ICMR		
(b)	Dr Ankita Kankaria	Implementation of Research to Enhance Screening, Early Diagnosis and Initiation of Treatment for Oral, Breast and Cervical cancer in Selected Districts of India	Extramural-ICMR (accepted)		

6. **Papers and Books/chapters published by the department.**

(a) **Book Chapter.**

(i) Editor of 3rd Edition of IAPSM Textbook of Community Medicine.

(b) **Author of a book chapter in.**

(i) Kakkar R. Gupta GS. Geriatric health. 3rd ed IAPSM's Textbook of Community Medicine. India: Jaypee; 2021.

(ii) Aggarwal P, Kakkar R. Use of Information Technology in Community Health care. 3rd ed IAPSM's Textbook of Community Medicine. India: Jaypee; 2021.

(iii) Vyas S, Deepshikha, Kakkar R. Adolescent Health. 3rd ed IAPSM's Textbook of Community Medicine. India: Jaypee; 2021.

(iv) Saxena V, Kakkar R. Preventive Medicine. 3rd ed IAPSM's Textbook of Community Medicine. India: Jaypee; 2021.



- (v) Chatterjee A, Ramraj B, GRID COVID-19 study group. Stigma Mechanisms in a Globalized Pandemic in India: A Theoretical Framework for Stigma. In *Global Perspectives of COVID-19 Pandemic on Health, Education, and Role of Media* 2023 Aug 15. Singapore: Springer Nature Singapore.
- (vi) Sahoo SS, Kishore K. Advanced Medical Statistics. In *IAPSM's Comprehensive Textbook of Research Methodology* 2024 Feb 3. Jaypee Brothers New Delhi.
- (vii) Verma M. Public health Aspects of Diabetes. In: Bilous R, Donnelly R, Idris I, editors. *Handbook of Diabetes, An Indian Adaptation*. 5th ed. New Delhi: Wiley; 2023. p. 319.
- (viii) Bandodkar P, Verma M. Effect of Public Health Research on Policy/Practice Changes. In: Soundappan K, Amarjeet S, Chockalingam A, editors. *Principles And Application of Evidence-Based Public Health Practice* (In press). 1st ed. Elsevier; 2023.
- (ix) Verma M among Collaborators G. Stigma Mechanisms in a Globalized Pandemic in India: A Theoretical Framework for Stigma. In: Pachauri S, Pachauri A, editors. *Global Perspectives of COVID-19 Pandemic on Health, Education, and Role of Media* (In press). 1st ed. Springer Nature; 2023.

(c) **Publications.**

- (i) Anjana RM, Unnikrishnan R, Deepa M, Pradeepa R, Tandon N, Das AK, Joshi S, Bajaj S, Jabbar PK, Das HK, Kumar A, Kakkar R. Metabolic non-communicable disease health report of India: the ICMR-INDIAB national cross-sectional study (ICMR-INDIAB-17). *Lancet Diabetes Endocrinol.* 2023 Jul;11(7):474-89.
- (ii) Dhandapani S, Rajshekar D, Priyadarshi K, Krishnamoorthi S, Sundaramurthy R, Madigubba H, Sastry AS, Kakkar R. Comparison of hand hygiene compliance among healthcare workers in Intensive care units and wards of COVID-19: A large-scale multicentric study in India. *Am J Infect Control.* 2023;51(3):304-312.
- (iii) Krishnamoorthy Y, Rajaa S, Verma M, Kakkar R, Kalra S. Spatial patterns and determinants of diabetes mellitus in Indian adult population: a secondary data analysis from nationally representative surveys. *Diabetes Ther.* 2023 Jan;14(1):63-75.
- (iv) Garg K, Reddy V, Kakkar R, Aravindakshan R, Gupta A. Prevalence of Undernutrition Among Tribal Lactating Mothers in Andhra Pradesh, India. *Cureus.* 2023 Nov;15(11).
- (v) Ponnaiah M, Bhatnagar T, Abdulkader RS, Elumalai R, Surya J, Jeyashree K, Kumar MS, Govindaraju R, Thangaraj JW, Aggarwal HK, Kakkar R, Balan S, Kankaria A. Factors associated with unexplained sudden deaths among adults aged 18-45 years in India—A multicentric matched case-control study. *Indian J Med Res.* 2023 Oct;158(4):351-62.
- (vi) Kishore S, Shah V, Bera OP, Venkatesh U, Kakkar R, Aggarwal P, Bhardwaj P, Singh CM, Maliye C, Garg S, Menon GR, Misra P, Verma SK. Risk of secondhand smoke exposure and severity of COVID-19 infection: a multicenter case-control study. *Front Public Health.* 2023;11:1210102.
- (vii) Tiwari K, Kakkar R, Aggarwal P. Psychometric Properties of the Hindi Version of the World Health Organization Quality of Life Questionnaire-Older Adults (WHOQOL-OLD) Module in Dehradun, India. *Cureus.* 2023 Aug;15(8):e43985.
- (viii) Kakkar R. Book Review: Ergonomics in Healthcare: An Update. *EFI Journal.* 2023 Mar;4(1):38.



- (ix) Debnath DJ, Gupta A, Naidu NK, Kalidoss VK, Kakkar R. Population-Based Detection of Cancer Cases Using Digital Platforms in Mangalagiri Mandal of Guntur District, Andhra Pradesh. *Cureus*. 2023 Feb;15(2):e34785.
- (x) Verma M, Panwar S, Sahoo SS, Grover GS, Aggarwal S, Tripathy JP, Shah J, Kakkar R. Exercise and Physical Activity Diversity: a spatial clustering and regression analysis. *BMC Public Health*. 2023;23(1):16930.
- (xi) Verma M, Aditi A, Kapoor N, Sharma P, Kakkar M, Kakkar R, Kalra S. Childhood Obesity and Essential Micronutrients: Insights from India's Comprehensive National Nutrition Survey (2016–18). *Diabetes Ther*. 2023;14(8):1267–1283.
- (xii) Prevalence, years lived with disability, and trends in anemia burden by severity and cause, 1990–2021: findings from the Global Burden of Disease Study 2021. *Lancet Haematol*. 2023;10(9):e713–e734.
- (xiii) Kalra S, Verma M, Sahay R. The 5A model for non-communicable disease advocacy. *J Pak Med Assoc*. 2023;73(5):1132–1133.
- (xiv) Mirza M, Verma M, Sahoo SS, Roy S, Kakkar R, Singh D. India's multi-sectoral response to oxygen surge demand during COVID-19 pandemic: A scoping review. *Indian J Community Med*. 2023;48(1):31–40.
- (xv) Barman P, Das M, Verma M. Epidemiology of type 2 diabetes mellitus and treatment utilization patterns among the elderly from the first wave of Longitudinal Aging study in India (2017-18) using a Heckman selection model. *BMC Public Health*. 2023;23(1):15661.
- (xvi) Dey SK, Kumar S, Rani D, Maurya SK, Banerjee P, Verma M, Senapati S. Implications of vitamin D deficiency in systemic inflammation and cardiovascular health. *Crit Rev Food Sci Nutr*. 2023;1–18.
- (xvii) Aditi, Singh SK, Jaiswal AK, Verma M. Is there a ubiquitous association between sleep disorder and frailty? Findings from LASI (2017-18). *BMC Geriatr*. 2023;23(1):429.
- (xviii) Kalra S, Verma M, Kapoor N. Exercise and Physical Activity Diversity. *J Pak Med Assoc*. 2023;73(10).
- (xix) Kalra S, Kapoor N, Verma M, Shaikh S, Das S, Jacob J, Sahay R. Defining and Diagnosing Obesity in India: A Call for Advocacy and Action. *J Obes*. 2023;4178121.
- (xx) Verma M. Factors Contributing to the Change in Overweight/Obesity Prevalence Among Indian Adults: A multivariate decomposition analysis of data from the National Family Health Surveys. *Adv Ther*. 2023;12325-023-02670-3.
- (xxi) Verma M, Rana K, Bhatt G, Sharma N, Lal P. Trends and determinants of tobacco use initiation in India: analysis of two rounds of the Global Adult Tobacco Survey. *BMJ Open*. 2023;13(9):e074389.
- (xxii) Kalra S, Vaidya R, Verma M, Joshi A. Primary Care Screening Tool for Prevalence of anaemia among married women with recent birth history and high-risk fertility behaviour. *Indian J Endocrinol Metab*. 2023;27(2):105–106.
- (xxiii) Global, regional, and national burden of diabetes from 1990 to 2021, with projections of prevalence to 2050: a systematic analysis for the Global Burden of Disease Study 2021. *Lancet*. 2023;402(10397):203–234.
- (xxiv) Das M, Verma M, Barman P, Behera DK. Prevalence of anaemia among married women with recent birth history and high-risk fertility behaviour: secondary data analysis of the National Family Health Survey-India (2019-21). *BMJ Open*. 2024;14(1):e073395.
- (xxv) Schumacher AE, Kyu HH, Aali A, Abbafati C, Abbas J, Abbasgholizadeh R,, et al. Global age-sex-specific mortality, life expectancy, and population estimates in 204 countries and territories and 811 subnational locations, 1950–2021, and the impact of the COVID-19 pandemic: a comprehensive demographic analysis for the Global Burden of Disease Study 2021. *Lancet*. 2024;403(10440):1989–2056.



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- (xxvii) Mirza M, Verma M, Aggarwal A, Satpathy S, Sahoo SS, Kakkar R. Indian Model of Integrated Healthcare (IMIHC): a conceptual framework for a coordinated referral system in resource-constrained settings. *BMC Health Serv Res.* 2024;24(1):42.
- (xxviii) Kalra S, Verma M, Kapoor N. The Barocene Era. *J Pak Med Assoc.* 2024;74(2):402–403.
- (xxix) Abdulkader RS, Ponnaiah M, Bhatnagar T, Rozario AG, Mohan M, Saravanakumar D, Moorthy A, Tyagi AK, Kankaria A. Baseline findings of a multicentric ambispective cohort study (2021-2022) among hospitalized mucormycosis patients in India. *Mycology.* 2024;1-5.
- (xxx) Ahuja A, Duggal M, Liu JY, Sharma P, Hosapatna Basavarajappa D, Bagga R, El Ayadi AM, Kankaria A, Kumar V, Singh P, Diamond-Smith NG. A qualitative study to understand sociocultural beliefs around perinatal. *BMC Pregnancy Childbirth.* 2024;24(1):30.
- (xxxi) Mental health and their impact on seeking help among pregnant and postpartum women in India. *BMC Pregnancy Childbirth.* 2024;24(1):30.
- (xxxii) Worry among the world's youth. *Lancet Child Adolesc Health.* 2024;8(2):73.
- (xxxiii) Kalra S, Verma M, Shah B. Women's Health in the Perimenopausal Age: A New Perspective. *BMC Womens Health.* 2024;24(1):36.
- (xxxiv) Global burden of 369 diseases and injuries in children and adolescents from 1990 to 2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet Child Adolesc Health.* 2020;4(10):816-837.
- (xxxv) Khatri K, Kaur M, Dhir T, Kankaria A, Arora H. Role of calcium &/or vitamin D supplementation in preventing osteoporotic fracture in the elderly: A systematic review & meta-analysis. *Indian Journal of Medical Research.* 2023 Jul 1;158(1):5-16.
- (xxxvi) Gupta M, Kankaria A, Sahoo SS, Bhatnagar S, Kakkar R, Grewal A, Pruthi G, Goyal LD. Comprehensive, coordinated community-based palliative care (C3PaC) model for cancer patients in North India: a mixed-method implementation research study protocol. *BMC Palliative Care.* 2023 May 23;22(1):61. doi: 10.1186/s12904-023-01184-7. PMID: 37217912; PMCID: PMC10204344.
- (xxxvii) Kaur N, Kaur A, Singh P, Kaur H, Peer S, Sahoo SS. Pulmonary mucormycosis as a presentation of COVID 19: Case series. *Indian Journal of Tuberculosis.* 2024 Feb 20.
- (xxxviii) Kaur A, Dhoat PS, Kaur N, Sahoo SS. Knowledge, Awareness, and Determinants of Medication Adherence in Hypertensive Patients: A Hospital-Based Cross-sectional Study in North India. *Journal of Pharmacy and Bioallied Sciences.* 2024 Feb 1;16(Suppl 1):S118-21.
- (xxxix) Ananthesh L, Cutinha RM, Sahoo SS, Dsouza JD, Shetty S, Gururaj C, et al. Effect of healthcare expenditure on the health-related quality of life among diabetic patients of South India: A cross-sectional study. *Clinical Epidemiology and Global Health.* 2024 Jan 1;25: 101460.
- (xxxx) Ledesma JR, Ma J, Zhang M, Basting AV, Chu HT, Vongpradith A, et al. Global, regional, and national age-specific progress towards the 2020 milestones of the WHO End TB Strategy: a systematic analysis for the Global Burden of Disease Study 2021. *The Lancet Infectious Diseases.* 2024 Jan 1.
- (xxxxi) Panda UK, Ra D, Sahoo SS, Kakkar R, Singh J. Interplay between tuberculosis, mental illness, and treatment compliance: An integrative literature review. *Indian Journal of Tuberculosis.* 2023 Nov 2.
- (xxxxii) Verma M, Panwar S, Sahoo SS, Grover GS, Aggarwal S, Tripathy JP, Shah J, Kakkar R. Mapping the stability of febrile illness hotspots in



Punjab from 2012 to 2019-a spatial clustering and regression analysis. BMC Public Health. 2023 Oct 16;23(1):2014.

(xxxxiii) Parija PP, Tiwari P, Sahoo SS. How much do we follow birth preparedness? A community-based snapshot study from rural Delhi, India. Journal of Family Medicine and Primary Care. 2023 Sep 1;12(9):1901-7.

(xxxxiv) Panda UK, Sahoo SS, Samantaray S. Harm Reduction Approach for Tuberculosis and Substance Use Disorders: A Review of Approaches and Implications in the Indian Context. Indian Journal of Tuberculosis. 2023 Sep 29.

(xxxxv) Mensah GA, Fuster V, Murray CJ, Roth GA, Global Burden of Cardiovascular Diseases and Risks Collaborators. Global burden of cardiovascular diseases and risks, 1990-2022. Journal of the American College of Cardiology. 2023 Dec 19;82(25):2350-473.

(xxxxvi) Steinmetz JD, Seeher KM, Schiess N, Nichols E, Cao B, Servili C, Cavallera V, Cousin E, Hagins H, Moberg ME, Mehlman ML. Global, regional, and national burden of disorders affecting the nervous system, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021. The Lancet Neurology. 2024 Apr 1;23(4):344-81.

(xxxxvii) Panda UK, Sahoo SS, Parija PP. Climate Change: A Social Determinant of Mental Health. Indian Journal of Social Psychiatry. 2023 Jul 21.

(xxxxviii) Ong KL, Stafford LK, McLaughlin SA, Boyko EJ, Vollset SE, Smith AE, et al. Global, regional, and national burden of diabetes from 1990 to 2021, with projections of prevalence to 2050: a systematic analysis for the Global Burden of Disease Study 2021. The Lancet. 2023 Jul 15;402(10397):203-34.

(xxxxix) Chaudhary P, Arora KK, Simmi GA, Patra A, Sahoo SS. Parameters Affecting the Kidney Size in Individuals without Known Renal Pathology: an Ultrasonographic Study. Maedica. 2023 Jun;18(2):222.

(xxxxx) Lazarus JV, Han H, Mark HE, Alqahtani SA, Schattenberg JM, Soriano JB, GBD Fatty Liver Disease Sustainable Development Goal Collaborators. The global fatty liver disease Sustainable Development Goal country score for 195 countries and territories. Hepatology. 2023 Sep 1;78(3):911-28.

7. The department needs to provide the following numbers for individual faculty:-

<u>Sr.</u>	<u>Research papers</u>	<u>Book/Book chapter</u>	<u>i10 Index* :</u>	<u>h index*</u>
Dr. Rakesh Kakkar	12	5	24	14
Dr. Ramnika Aggarwal	-	-	6	7
Dr. Pravin Pisudde	-	-	6	6
Dr. Ankita Kankaria	5	-	12	12
Dr. Madhur Verma	20	3	52	25
Dr. Soumya Swaroop Sahoo	13	2	25	16

*According to the Google Scholar database

8. **Other important Highlights of the department.**

(a) **Workshop Organized***

(i) Organized “Good clinical practice” workshop on 17 February 2024 as Coordinator.

(ii) Organized workshop of 15 INIs for collaboration on environmental health surveillance in India at Chandigarh as Organizing Chairman.



- (iii) Organized 'AIIMS Preventive Oncology- ECHO Programme' ten-session module on 'Awareness and early detection of preventive cancers' community health officers.
- (iv) Organized 'Research Grant' workshop as Research Advisory Committee Member.
- (v) Organized as a member of the Research Methodology Workshop on Thesis Writing organized by the Research Advisory Committee AIIMS Bathinda from 13th-19th September 2023 and 17-22 March 2024.
- (vi) Organized - CME on Vaccine-preventable Diseases - WHO Surveillance program under MOHFW – 18th Jan 2024.
- (vii) Facilitated - 'AIIMS Preventive Oncology-ECHO Programme' for Community Health Officers.
- (viii) Organized National Level Workshop on Basic of Bibliometric Analysis at IAPSMCON KMC Mangalore Karnataka.
- (ix) Organized World Health Day Quiz as IAPSM Nodal Officer on the occasion of World Health Day (5th and 10th April 2023).
- (x) Organized International Yoga Day Celebration at AIIMS, Bathinda.

9. **Number of Thesis Supervised MD/MS***

- (a) Dr. Rakesh Kakkar: One.
- (b) Dr. Ramnika Aggarwal: -One.
- (c) Dr. Madhur Verma: - One.
- (d) Dr Soumya Swaroop Sahoo- Three (as Co guide).
- (e) Dr Ankita Kankaria- One (co-guide).

Sr.	Ph.D/MD/ MS/ ICMR STS	Guide/ Co-guide	Title of thesis /dissertation/Project
(i)	MD	Guide- Dr Ramnika Aggarwal Co-Guide- Dr Madhur Verma	Assessment of the public health system preparedness to provide geriatric friendly health care services in Punjab: A mixed method study
(ii)	MD	Co- guide (Dr Soumya)	Evaluation of financial burden in families of children with drug-resistant epilepsy - a prospective observational study
(iii)	MD	Co- guide (Dr Soumya)	Treatment outcomes in Pneumonia patients diagnosed with multiplex PCR panel vs Routine culture- A Comparative Trial
(iv)	MD	Co- Guide (Dr Soumya)	Characteristics of epilepsy in children with cerebral palsy: a cross-sectional study
(v)	MD	Guide -Dr Rakesh Kakkar Co- Guide - (Dr Ankita)	Identification of people with diabetes at risk of developing Latent Autoimmune Diabetes in Adults and study its determinants: a cross-sectional study from North India

10. **Any other achievements in number*.**

(a) **Dr Rakesh Kakkar.**

- (i) Established *Regional centre and Sentinel surveillance site* under Prevention and Control of Zoonotic Diseases, NCDC, New Delhi.
- (ii) Elected as President, IAPSM North Zone 2023-24.
- (iii) Editorial Board member of the Indian Journal of Community Health, an official national publication of IAPSM.
- (iv) Editor and Author of the 3rd edition of IAPSM's Textbook of Community Medicine. India: Jaypee; 2024.



- (v) Working as Chairman of the Central Library Committee, organized several training sessions, workshops for faculty, undergraduate and postgraduate students, and several initiatives to enhance ease of access and increase utilization of library resources.
- (vi) Working as OIC, Institutional Procurement Committee. Worked on enhancing the faster processing and procurement of goods and services.
- (vii) Chairman of Institutional Annual Report Committee 2023-24.
- (viii) Member of Research Advisory Committee 2022-24.
- (ix) Coordinator of a Tobacco Consumption Control Committee at AIIMS, Bathinda.
- (x) Member of Operational Research NTEP Punjab.
- (xi) Nodal Person (Public Health) NTEP AIIMS Bathinda.
- (b) **Dr. Ramnika Aggarwal.**
- (i) Elected Member Executive Committee – IAPSM-North Zone for the year 2023-24.
- (c) **Dr Soumya Swaroop Sahoo.**
- (i) Member of the Academic Committee of the college.
- (ii) Additional Member Secretary PG thesis committee and Member, Research Advisory Committee.
- (iii) Coordinator NTEP Core Committee, AIIMS Bathinda.
- (iv) Member Secretary, Reservation Roster Committee.
- (v) Conducted the World Health Day Quiz as IAPSM Nodal Officer on the occasion of World Health Day (5th and 10th April 2023).
- (vi) Assistant Hostel Superintendent, UG Boy's Hostel.
- (vii) Member, Institutional Annual Report Committee.
- (viii) Conducted HSS visit of DH, Bathinda in NACP Sentinel Surveillance rounds.
- (ix) Organizing team Member Workshop on "Writing a Research Paper" on 16th March 2024 at AIIMS Bathinda.
- (x) Co- Incharge, Transport Wing List of papers presented by you at the conference (Name the conference and attach a separate sheet).
- (d) **Dr. Madhur Verma.**
- (i) Presented an oral paper, "Can Google Trends® be used to forecast acute febrile illnesses reported under IDSP- a time series analysis from the Northern state of India," at IPHACON 2024, 15-17 March in Manali.
- (ii) No. of Ph.D/D.M./M.Ch. Students working under you as co-supervisors- 1.









Zira, Punjab, India
XX9R+RXF, Zira, Punjab 142047, India

Zira, Punjab, India
Shah Wali, Zira Rd, Zira, Punjab 142047, India





DEPARTMENT OF DENTISTRY

Name of the Department	Dentistry
OIC Department	Dr Shailendra Rana

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr. Shailendra Singh Rana	Associate Professor	13-11-2019
(b)	Dr. Lata Goyal	Associate Professor	08-11-2019
(c)	Dr. Tarun Kumar Singh	Associate Professor	02-11-2019

2. **Brief Introduction of the department.** Our mission is to promote sustainable development of dental and allied health education. We also encourage patient education and creating awareness regarding dental problems. We strive our best to provide excellent treatment to all sections of the society. We plan and continuously provide excellent infrastructure and learning resources required for quality education and innovations. We will foster specialty training and research in all disciplines of oral health sciences.

- (a) **Teaching.** Undergraduate Teaching MBBS students.
- (b) **Postgraduation Teaching.** MDS: Prosthodontics and Crown & Bridge.
 - (i) MDS: Orthodontics & Dentofacial Orthopedics.
 - (ii) MDS: Periodontics.
 - (iii) MDS: Conservative Dentistry & Endodontics.

3. Services Available in Department.

- (a) **General OPD.** Extractions, Restorations, Oral Prophylaxis, Scaling.
- (b) **Radiological.** Intraoral periapical X-Ray, OPG, Lateral Ceph, Paranasal sinus, CBCT.
- (c) **Prosthodontics.** Complete and Removable Denture, Fixed Prosthesis, Maxillofacial Prosthesis, Implants.
- (d) **Orthodontics.** Lingual orthodontics, Clear Aligner, Ceramic brackets, Cleft palate, Growth Modification Appliances, orthognathic Surgeries, Management of OSA and TMD.
- (e) **Periodontics.** Flap Surgeries, Root Coverage, Gingivectomy, PRP procedures, Implants, Laser, Microsurgeries.
- (f) **Endodontics.** Root Canal Treatment, Vital Pulp Therapy, Aesthetic Procedures, Veneers.
- (g) **Pedodontics.** Paediatric Restorations, pulpectomy, crowns.
- (h) **Oral and Maxillofacial Surgery.** Impaction, cyst enucleation, Maxillofacial Trauma, TMJ.

4. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

- (a) Number of Papers presented in National/International Conference: 10.

Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
<u>National Conferences.</u>				
(i)	Dr. Shailendra Singh Rana	"Digital Workflow in Orthodontics".	Digital Dentistry	AIIMS, New Delhi
		3D printing and Clear Aligners	4 th to 6 th June 2023	Rejove Aligners, New Delhi



(ii)	Dr. Lata Goyal	Accuracy of Computer-Assisted Dental Implant Placement: Role of clinical experience: A systematic review of preclinical and clinical studies	29 th National Conference of the Indian Society of Oral Implantologists 2023, Mumbai	Indian Society of Oral Implantologists
		Plasma cell gingivitis along with plasma cell cheilitis: A case series	47 th National Annual Conference of the Indian Society of Periodontology Dec 2023, Amritsar	Indian Society of Periodontology Dec 2023
(iii)	Dr. Tarun Kumar Singh	CBCT Guided Management of paramolar in Mandibular Molar	30 IES Conference 14-16 October 2023	3 rd National Conference ISDT
		Management of Intrusion in Permanent maxillary anterior teeth	1st ARCDT (Asian Region Congress Dental Traumatology) Conference 12-14 Nov, 2023	IACDE and IES
		Oral Myiasis in an Immunocompromised Adult Undergoing Chemotherapy: A Rare Case Report and Comprehensive Treatment Protocol	2nd National Seminar on Applied Research at Development Cell 21.12.2023	Research and Development Cell
International Conferences.				
(i)	Dr. Lata Goyal	Effectiveness of titanium-rich platelet fibrin in peri-implant mucosal augmentation	Academy of Osseointegration n 2024 Charlotte, North Carolina, USA	Academy of Osseointegration
(ii)	Dr Tarun Kumar Singh	Oral Myiasis in an immunocompromised Adult Undergoing Chemotherapy: A Rare Case Report and Comprehensive Treatment Protocol	9th International Conference on Advanced Dentistry and Oral Health 2023	Advanced Dentistry and Oral Health
Lectures Delivered.				
(i)	Dr. Shailendra Singh Rana	Age Estimation by Cervical Vertebrae on Lateral Cephalogram using Artificial Intelligence	Age assessment in Forensic Medicine CME & Workshop 2023.	All India Institute of Medical Sciences, Bathinda on 15 th June, 2023
		MRI and its applications in Orthodontics	22 nd to 26 th April 2023	NIT Rourkela
		Automatic landmark detection on MRI and CT imaging modalities	4 th May 2023.	NIT Rourkela
		Artificial Intelligence and its Applications in Orthodontics	9 th September 2023	NIT Rourkela
		Dental Appliances in the Management of OSA	Sleep Medicine CME & WORKSHOP 2024	All India Institute of Medical



				Sciences, Bathinda
		3D imaging in craniofacial region	23 rd December 2023	GRMC, Gwalior, Madhya Pradesh
<u>Training/Workshop Attended.</u>				
(i)	Dr. Shailendra Singh Rana	"Dental Appliances in the Management of OSA" in Sleep Medicine CME & WORKSHOP 2024 in All India Institute of Medical Sciences, Bathinda Rourkela on 15th March 2024		



5. **Faculty achievements –awards, honours, etc.**

Sr.	Name of faculty	Award/honour	Event	Organised by
(a)	Dr. Shailendra Singh Rana	S. S. Sidhu award	2023	National Academy of Medical Sciences
(b)	Dr. Lata Goyal	CDE Representative	2023	IDA
(c)	Dr. Tarun Kumar Singh	American Academy of Cosmetic Dentistry (AACD)	2023	AACD
		International Association for Dental Research		IADR
		International Association of Dental Traumatology (IADT)		IADT

6. **Research activities undertaken in the department.**

Sr.	Name & designation of PI	Title of the project	Support Intramural/ extramural	Status (ongoing/ completed)	Budget
Projects Sanctioned.					
(a)	Dr. Shailendra Singh Rana	Volumetric upper airway analysis using 2-D Dimension cephalogram.	ICMR- Extramural	Ongoing	22.5 lakhs
(b)	Dr. Lata Goyal	Treatment of gingival Recession using conventional vs minimally invasive coronally advanced flap with platelet-rich fibrin in thin gingival biotype: A randomized controlled clinical trial (Chief Investigator)	AIIMS Bathinda- Intramural	Ongoing	
		Patients' Illness perception based on Brief-IPQ in patients suffering from Chronic Periodontitis in the Indian Population		Submitted	
		Trigeminal neuralgia: Clinical characteristics among patients at a tertiary Care Centre - A retrospective analysis		Ongoing	
(c)	Dr. Tarun Kumar Singh	Retention of posts luted with a resin cement in canals obturated using a calcium hydroxide-based sealer – An Invitro study	Intramural	Completed	
		A comparative evaluation of the intensity of post endodontic pain following single visit root canal treatment with manual, rotary and reciprocating instruments with two different irrigation methods: an in vivo study”	Intramural	Ongoing	
(d)		To evaluate and compare Direct Pulp Capping using Biodentine and Bio Ceramic Material (BCM) in mature permanent teeth with the adjunct of Cone Beam Computed Tomography (CBCT): Randomized Clinical Trial	Intramural	Ongoing	



(e)	Determine the core microbiome for asymptomatic apical periodontitis using 16S rRNA Illumina sequencing, identify biomarkers for diagnosis, and formulate the optimum irrigation protocols depending on microbiological evaluation	Extramural	Submitted	
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7. Papers and Books/chapters published by the department.

(a) Research papers 17.

(b) Book Chapters 3.

(i) Kumar A, **Rana SS**, Gupta S, Patra A. Cephalometric analysis of maxillary sinus for gender determination using lateral cephalogram: A novel retrospective study in the north Indian population. Cureus [Internet]. 2024; Available from: <http://dx.doi.org/10.7759/cureus.66030>.

(ii) **Rana SS**, Nath B, Chaudhari PK, Vichare S. Cervical Vertebral Maturation Assessment using various Machine Learning techniques on Lateral cephalogram: A systematic literature review. J Oral Biol Craniofac Res. 2023 Sep-Oct;13(5):642-651.

(iii) Gupta, A., **Rana S.S.**, Eranhikkal, A. et al. Repeatability and reproducibility of landmark localization on panoramic images for PA (Posteroanterior) cephalometric analysis. Multimed Tools Appl (2023). <https://doi.org/10.1007/s11042-023-16961-y>.

(iv) Duggal I, Zere E, Kumar Chaudhari P, Duggal R, **Singh Rana S**, Chauhan A. The challenging management of Moebius syndrome using orthodontic camouflage: A case report. Spec Care Dentist. 2023 Jun 7. doi: 10.1111/scd.12888. Epub ahead of print. PMID: 37287118.

(v) **Goyal L**, Dewan M, Mahajan A, Prabhat KC. Applications of 4D Printing in Dentistry: A Narrative Review. Journal of Advanced Periodontology and Implant Dentistry (Accepted) (PUBMED).

(vi) Jain K, Goyal L, Agarwal P. Crown Fragment Reattachment by the Minimal Intervention Approach for Coronal Tooth Fractures: A Case Series. Cureus. 2023 Nov 12;15(11): e48710. PMID: 38094555.

(vii) Dewan M, Pandit AK, **Goyal L**. Association of periodontitis and gingivitis with stroke: A systematic review and meta-analysis. Dent Med Probl. Epub ahead of print. PMID: 36700798.

(viii) Mahajan A, **Goyal L**, Asi KS, Walhe MS. Clinical effectiveness of periosteal pedicle graft (PPG) for managing gingival recession defects- A Systematic Review and Meta-Analysis. Evid Based Dent. 2023;1-11. PMID: 37286696.

(ix) Goyal L, Gupta S, Perambudhuru Y. Association between periodontitis and cognitive impairment in adults. Evid Based Dent. 2023 Sep;24(3):123-124. PMID: 37433922.

(x) Chawla K, **Goyal L**. Root Coverage with Restoration of Non-carious cervical lesions: A Systematic Review and Meta-Analysis. Dent Med Probl 2024;61(1):99-119. PMID: 38445442 .

(xi) **Goyal L**, Sankar H, Dewan M, Perambudhuru. Dynamic Navigation in Dental Implantology. Discoveries 2023; 11(4), e 178. (PUBMED).

(xii) **Goyal L**, Gupta S, Dewan M, Singla M. Is periodontal therapy an effective treatment modality for preventing or managing cardiovascular disease in patients with periodontitis? Evid Based Dent. 2023; 24 (1):32-34 PMID: 36890248.



- (xiii) **Singh TK**, Arshad E, Sharma A, Kumar M, Choudhary E, Sharma S. Knowledge, attitude, and parents' awareness regarding their children's oral health in Bathinda, Punjab. Int J Health Sci. 2022;6(S5):11349–11356.
- (xiv) Prakash J, **Singh TK** et al. Intra-articular platelet-rich plasma injection versus hydrocortisone with local anesthetic injections for temporomandibular disorders. Bioinformation 18(10): 991-997 (2022).
- (xv) **Singh TK**, Sankar H, Arshad E, Gupta A, Kumar M, Ram H, Supta A. Oral Myiasis in an Immunocompromised Adult Undergoing Chemotherapy: A Rare Case and Comprehensive Treatment Protocol. Cureus. 2023 Jul 27;15(7).
- (xvi) Gupta A, **Singh TK**. Unraveling the sodium hypochlorite accident with comprehended treatment protocol: A Case Report. Medical Reports. 2024 Jun 7:100077.
- (xvii) Kukreja BJ, Talukder D, Kumar KH, Yadav A, **Singh TK**, Sahoo N, Makkad RS. Clinical Evaluation of Role of Laser in Soft Tissue Surgical Guide for Implant Placement. Journal of Pharmacy and Bioallied Sciences.:10-4103.

(c) **Books.**

- (i) **Rana SS**, Prabhat KC, Gupta A. “Applications of Three-dimensional Imaging for Craniofacial Region” currently under review for publication by Springer Nature Singapore Pte Ltd. (In Press).

(d) **Chapter in Books.**

- (i) **Goyal L**, Dhingra K, Pandey J. Artificial Intelligence in Periodontology: Current Application and Future Perspectives (Springer) (Accepted).
- (ii) Chaudhari PK, Zere E, **Goyal L**, Almerco KKA, Dhingra K. Advance applications of polymeric green composites in medical bioscience- Bone engineering. In: Innamudin Ed(s). Green Sustainable Process for Chemical and Environmental Engineering and Science. 1st edition. Elsevier 2023; 1:321-330.
- (iii) **Singh T**. Computed Tomography Imaging for craniofacial and dental applications published by Springer Nature Singapore.

8. The department needs to provide the following numbers for **individual faculty**:-

	Dr. Shailendra Rana	Dr. Lata Goyal	Dr. Tarun Kumar Singh
Citations	98	440	90
H index	6	13	6
I 10	4	14	4

9. Other important Highlights of the department:-

Sr.	Faculty	Name of CME/Workshop	Dates	Role of the Faculty
(a)	Dr. Shailendra Singh Rana	Dental Appliances in the Management of OSA	15-03-2024	Conducted the workshop
(b)	Dr. Lata Goyal	Basal Implants CDE	2023	Organising Secretary

10. **Number of Thesis Supervised MD/MS*-5.**

11. **Any other achievements in number.**

- (a) **Prof. Satish Kumar Gupta**. During the fiscal year spanning 2021-2023, I assumed the pivotal role of 'Dean,' which bore immense significance within our recently established institution.
- (b) The demands of this responsibility compelled me to meticulously craft the entire MBBS curriculum, spanning from the inaugural year to the concluding



phase, unaided and without the reliance on the support of AIIMS, New Delhi - a task that the Ministry of Health and Family Welfare had entrusted to our institution.

(c) Regrettably, this intensive undertaking left me with limited bandwidth to allocate towards my own sphere of Dentistry and my personal professional pursuits".

12. **Dr. Shailendra Singh Rana.**

- (a) Currently pursuing PhD from NIT Rourkela, Odisha in Artificial Intelligence.
- (b) Member of Faculty of Dental Sciences, MFDS RCPS (Glasg), Personal ID (PID): 151280.
- (c) Life Member of Indian Orthodontic Society (LM-3147).
- (d) Life Member Indian Society for Dental Research: India section of International Association of Dental Research (LM-952).
- (e) Life member of Indian Society of Cleft lip, palate and craniofacial anomalies. (L-R-34).
- (f) Member of American Cleft Palate-Craniofacial Association (ID#:103309).
- (g) Fellow Member of WFO. (ID number -14309246).
- (h) Life member of Indian Dental Association. (R.No.02203).
- (j) Member of National Academy of Medical Sciences, (India).
- (k) Member of International Association of Dental Research. (2330145).



DEPARTMENT OF DERMATOLOGY

Name of the Department	DERMATOLOGY
Head of the Department	Dr Shivani Bansal

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr Shivani Bansal	Assistant Professor	01.04.2022
(b)	Dr Kavita Poonia	Assistant Professor	30.05.2022
(c)	Dr Vishal Thakur	Assistant Professor	09.02.2024

2. Brief Introduction of the department.

(a) Department Vision.

(i) To provide high-standard, ethical, affordable, personalized, and compassionate health care to patients suffering from skin diseases. Also, to spread awareness about common skin disorders and to reduce stigma regarding various treatable skin and venereal disorders, for example, leprosy, vitiligo, HIV, syphilis, etc.

(ii) Clinical – Further expansion of IPD, side lab facility, special clinics, and dramaturgical services.

(iii) Equipment – Lasers: CO2 laser, Nd: YAG laser.

(b) Academics. Undergraduate clinical and theory classes are being conducted as per schedule. Postgraduate courses started in the department in January 2022. The teaching schedule of PG includes Seminars, journal club, clinical case discussions, and spotters once per week, Academic ward rounds once per week, conducting internal assessment exams every three months, and - pathological teaching activities in collaboration with the pathology department.

(c) Patients-related services provided in the department.

(i) Daily General OPD, IPD, and special clinics.

(ii) Procedures offered by the department include Intralesional injections, skin biopsies, electrocautery, radiofrequency ablation, chemical peeling and cautery, micro-needling, platelet-rich plasma therapy, mole excision, cyst excision, keloid surgeries, comedone-extraction, corn enucleation, paring, cryosurgery, dermoscopy, trichoscopy, patch testing, wood's lamp examination acne scar surgeries, nail surgeries, vitiligo surgeries, full body phototherapy.

3. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
<u>International Conferences.</u>				
(a)	Dr. Shivani Bansal	Free paper judge	Faculty at Regional Society of Pediatric Dermatology, 17-19 th Nov 2023, New Delhi	Regional Society of Pediatric Dermatology



(b)	Dr. Shivani Bansal	Neonatal Dermatoses	Faculty at Pediatric Dermatology Introductory Course from Asian Society of Pediatric Dermatology on Nov, 2023	Asian Society of Pediatric Dermatology
(c)	Dr. Kavita Poonia	Paederus dermatitis through the lens of dermoscope.	7 th international conference and hands on workshop.	Face Aesthetics Dermatologists Society (FADS),
(d)	Dr. Kavita Poonia	Chairperson at Face Aesthetics	7 th international conference and hands on workshop	Face Aesthetics Dermatologists Society (FADS),
National Conferences.				
(a)	Dr. Shivani Bansal	Biomarkers and Scores in vitiligo	Faculty at IADVL Vitiligo National E-symposium held on 25 th June, 2023	IADVL and SIG Pigmentary
(b)	Dr. Shivani Bansal	Panel discussion – Pros/cons (AI vs Doctor, Gamification, Empathetic abilities)	Faculty at 49 th Cuticon (State), 2023 held at GMC Faridkot	IADVL Punjab HP Chandigarh
(c)	Dr. Shivani Bansal	Undersatnding immune tolerance and its loss- From bench to clinical implications	Faculty at symposium at Central University, Punjab on 5 th September, 2023	Central University
(d)	Dr. Shivani Bansal	Tofacitinib in vitiligo	Faculty at SIG Pigmentary CME on 10 th December, 2023 at Amritsar	SIG Pigmentary
(e)	Dr. Shivani Bansal	Long term Covid complications in dermatology	Faculty at ECHO-COVID program in AIIMS Bathinda	ECHO-COVID
(f)	Dr. Kavita Poonia	Tattoo-Induced Skin Reaction Unveiling Systemic Sarcoidosis.	PEDDERMACON 5 th national conference of Pediatric Dermatology	PGIMER Chandigarh
(g)	Dr. Kavita Poonia	Sparing of tuberculin sensitivity test site in a psoriatic arthritis patient with a flare of psoriasis	PEDDERMACON 5 th national conference of Pediatric Dermatology	PGIMER Chandigarh

4. **Faculty achievements - awards, honours etc.**

Sr.	Name of faculty	Award/honour	Event	Organised by
(a)	Dr. Shivani Bansal	Completed the prestigious IADVL observership (2weeks) in May-June 2023	Centre for advanced dermatology and post graduate training, Vijaynagar, Bangalore)	IADVL (national society)



(b)	Dr. Shivani Bansal	IWDA Loreal Leadership grant in 2023		IWDA
(c)	Dr. Shivani Bansal	Member of SIG Pigmentary society for year 2023-25	SIG Pigmentary	IADVL
(d)	Dr. Kavita Poonia	Awarded Scholarships	MIDDERMACON	Indian Association of Dermatologist, Venereologists and Leprologist

5. **Research activities undertaken in the department.**

<u>Sr.</u>	<u>Name & designation of PI</u>	<u>Title of the project</u>	<u>Source of support Intramural/ extramural</u>	<u>Status (ongoing/ completed)</u>	<u>Budget</u>
Projects.					
(a)	Dr.Shivani Bansal	Assessing quality of life, depression, anxiety, stress and stigma among caregivers of children with atopic dermatitis and its correlation with severity of atopic dermatitis	Intramural	Ongoing	Non funded
(b)	Dr.Shivani Bansal	Corelation of dermoscopy and histopathology in patients presenting with inflammatory cutaneous lesions over legs at a tertiary institute of North India	Intramural	Ongoing	Non funded
(c)	Dr.Shivani Bansal	A clinico-epidemiological study among patients of primary cutaneous amyloidosis using dermoscopy and histopathology in a tertiary care institute of north india	Intramural	Ongoing	Non funded
(d)	Dr.Shivani Bansal	Comparison of therapeutic efficacy and safety of two concentrations of intra-lesional triamcinolone acetonide in patchy alopecia areata of the scalp: an open label randomized trial	Intramural	Completed	Non funded
(e)	Dr. Shivani Bansal	Understanding the role of candidate micro rna in psoriasis patients with an immunological perspective” pi is dr manju jain (assistant professor, biochemistry, central university of punjab, bathinda	Extramural	Completed	funded
(f)	Dr.Shivani Bansal	Evaluating the role of dermoscopy for the interpretation of patch test results in suspected cases of Allergic contact dermatitis: A Prospective Observational Study.	Intramural	Ongoing	Non funded



(g)	Dr Shivani Bansal	An ambispective study on vesicobullous disorders at a tertiary centre	Intramural	Submitted	Non funded
(h)	Dr Kavita Poonia	Exploring the role of salivary microRNAs in the detection of oral potentially malignant disorders: A collaborative multicentric study for non-invasive markers search".	ICMR Grant, Extramural	Submitted	67,00,000
(j)	Dr Kavita Poonia	Exploring the Interplay of Gut Microbiota-Adipokine Dynamics in Psoriasis Patients".	Extramural SERB-DST	Submitted	30,00,000

6. **Papers and Books/chapters published by the department: Publication details:-**

- (a) Bansal S, Sushama S, Poonia K. Spraying of Nipple and Areola During Keloid Growth. *Indian Dermatol Online J.* 2023 Nov 24;15(1):150-152.
- (b) Bansal S, Chojer P, Sushama S, Rana MK. Dermoscopy in Necrolytic Acral Erythema: A Case Report. *Dermatol Pract Concept.* 2024 Jan 1;14(1):e2024022.
- (c) Bansal S, Chojer P. Dermoscopy of Washboard Nails. *Indian J Dermatol.* 2023 Nov-Dec;68(6):726.
- (d) Bansal S, Singh S. The Rare Presence of Two Genetic Disorders (Neurofibromatosis 1 and X-Linked Recessive Ichthyosis) in a Single Patient. *Indian J Dermatol.* 2023 Nov-Dec;68(6):702-70.
- (e) Bansal S, Chojer P, Kaur H, Poonia K. Bilateral en coup de sabre morphea in a male child: A rare presentation. *Pediatr Dermatol.* 2023 Nov-Dec;40(6):1152-1154.
- (f) **Bansal S**, Singh S, Rana MK. Sweet Syndrome Localized to the Face. *Indian J Dermatol.* 2023 Mar-Apr;68(2):222-225.
- (g) Sushama, **Bansal S**. Improvement in Lesions of Co-Existing Lichen Amyloidosis and Vitiligo with Dexamethasone Oral Mini Pulse Therapy. *Indian Dermatology Online Journal* 14(4):p 561-563, Jul–Aug 2023. (**Corresponding Author**).
- (h) Bansal S; Sushama S; Brar AK; Rana MK. Use of monopolar and bipolar radiofrequency probes for treatment of cutaneous leiomyoma. *Journal of Cutaneous and Aesthetic Surgery* ():10.4103/JCAS.JCAS_78_23, November 30, 2023.
- (j) Sarkar R, Handog EB, Das A, Bansal A, Macarayo MJ, Keshavmurthy V, Narayan V, Jagadeesan S, Pipo E 3rd, Ibaviosa GM, Podder I, Bansal S. Topical and Systemic Therapies in Melasma: A Systematic Review. *Indian Dermatol Online J.* 2023 Oct 27;14(6):769-781.
- (k) Madaan P, Sharma U, Tyagi N, Brar BK, Bansal S, Kushwaha HR, Kapoor HS, Jain A, Jain M. A panel of blood-based circulatory miRNAs with diagnostic potential in patients with psoriasis. *Front Med (Lausanne).* 2023 Aug 28;10:1207993.
- (l) Chojer P, Poonia K, Bansal S. Pedrous dermatitis: bat wing appearance. Accepted *Skinmed* June 2023.
- (m) Singh S, Poonia K, Bansal S, Kapatia G. Bilateral chancre of the tongue: An unusual presentation of primary syphilis. *Int J STD AIDS.* 2023 Jun;34(7):488-490.
- (n) **K Poonia**, M Bhalla, K Dogar, Malothra A, Aggarwal K. Brachial artery flow-mediated dilation in patients with systemic sclerosis: an experience from tertiary care center from North India. *Clin Rheumatol.* 2023 Mar 10. (**corresponding author**).
- (o) Poonia K, Chojer P, Kapatia G. Giant angiokeratomas of scrotum. *Indian J Dermatol Venereol Leprol.* 2024 Mar 4:1. doi: 10.25259/IJDVL_1225_2023. Epub ahead of print.



- (p) Poonia K, Goyal P. Sparring of tuberculin sensitivity test site in a psoriatic arthritis patient with a flare of psoriasis. Rheumatology (Oxford). 2023 Dec 1;62(12):e361.
- (q) Singh S, Poonia K, Bansal S, Kapatia G. Bilateral chancre of the tongue: An unusual presentation of primary syphilis. Int J STD AIDS. 2023 Jun;34(7):488-490. **.(corresponding author).**
- (r) Bansal S, Chojer P, Kaur H, Poonia K. Bilateral en coup de sabre morphea in a male child: A rare presentation. Pediatr Dermatol. 2023 Nov-Dec;40(6):1152-1154.
- (s) Poonia K, Thami G, Dogar K, Jain S. Clinico-Laboratory Profile of Tuberculides: An Experience at a Tertiary Care Centre from Chandigarh, India. Indian Journal of Dermatology 69(2):p 201, Mar–Apr 2024.
- (t) Behera B, **Thakur V**, Sethy M, Ayyanar P, Garg S. COVID-19 Vaccine-Induced Erysipelas-Like Eruption. Indian Journal of Dermatology 69(2): 204.

7. **Number of Research papers/Books/Chapters/h-index/i10-index etc:-**

Sr.	Name of faculty	Research paper	Book/chapter	I10index	H index
(a)	Dr Shivani Bansal	33	12	9	9
(b)	Dr. Kavita Poonia	27	-	1	4
(c)	Dr. Vishal Thakur	81	7	13	11

8. **Number of Thesis Supervised MD/MS* 2:-**

- (a) A clinico-epidemiological study among patients of primary cutaneous amyloidosis using dermoscopy and histopathology in a tertiary care institute of north India **(Guide – Dr Shivani Bansal).**
- (b) Comparison of therapeutic efficacy and safety of two concentrations of intra-lesional triamcinolone acetonide in patchy alopecia areata of the scalp: an open label randomized trial **(Guide- Dr Shivani Bansal).**
- (c) Evaluating the role of dermoscopy for the interpretation of patch test results in suspected cases of Allergic contact dermatitis: A Prospective Observational Study. **(Guide- Dr Shivani Bansal).**
- (d) Correlating the atherogenic indices with cardiovascular risk in psoriasis patients : A cross-sectional study. **(Dr. Kavita Poonia as Guide).**
- (e) Evaluating the role of dermoscopy for the interpretation of patch test results in suspected cases of Allergic contact dermatitis: A Prospective Observational Study. **(Dr. Kavita Poonia as Co-guide).**

9. **Any other achievements in number*:-**







DEPARTMENT OF DIETETICS

Name of the Department	Dietetics
Head of the Department	Dr Kamna Bhati

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr Kamna Bhati	Dietician	15 th March 2024
(b)	Ms Ankita	Assistant Dietician	14 th March 2024
(c)	Ms Puja Kumari	Assistant Dietician	6 th March 2024

2. Brief Introduction of the department.

(a) **Vision.** To be the leading provider of evidence-based nutritional care, empowering patients to achieve optimal health and well-being through personalized dietary guidance and education.

(b) **Academics.** Our future academic plan focuses on advancing the field of dietetics and nutrition through a multifaceted approach. The department aims to conduct innovative research to improve patient outcomes and engage in collaborative studies with institutions and healthcare organizations to foster knowledge exchange, innovation and publication of research findings in scientific journals as well. Additionally, the department will implement educational programs to enhance public awareness of health and nutrition, and will organize and celebrate health days to boost community engagement and awareness of nutritional issues.

(c) **Patient Related Services.** The department operates a diet clinic in the IPD area, located in Public Health Room No. 5139 on the first floor. Patients referred from various OPDs of the Institute receive diet counseling daily from 9:00 a.m. to 5:00 p.m. additionally, parallel diet clinics are held in the Endocrinology OPD Room No. 4212 during the same hours. Recently, diet consultations have also been extended to indoor patients admitted to various wards. Department provides a range of specialized diet services tailored to meet the nutritional needs of both outpatient (OPD) and inpatient (IPD) populations. Various types of Normal and therapeutic diet and Ryle's tube feed schedules for general and private ward patients have been developed. Kitchen tender is in process to implement food services for indoor patients.



DEPARTMENT OF ENDOCRINOLOGY AND METABOLISM

Name of the Department	Endocrinology and Metabolism
Head of the Department	Dr. Shivani

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr. Shivani	Assistant Professor	02 August 2021

2. **Brief Introduction of the department.** The department of endocrinology and metabolism, AIIMS Bathinda is providing services to the patients on OPD basis. On daily basis patients are screened for complications of diabetes are educated regarding dietary plans, insulin techniques, diabetic foot care, risk factors for osteoporosis and life style modifications to prevent it. The department is dealing with patients having.

- (a) Diabetes mellitus.
- (b) Thyroid disorders.
- (c) Hormonal imbalances like.
- (d) Pubertal disorders.
- (e) Pituitary and adrenal disorders.
- (f) Obesity, short height.

3. The department also organized a comprehensive medical cum screening camp on World Diabetic Day providing various services as HbA1c testing, blood sugar testing, neuropathy screening (biothesiometer) and distributing insulin pens and wallets among the patients.

4. Department has started osteoporosis screening and diagnosis services by BMD estimation with DEXA machine.

5. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
National Conferences.				
(a)	Dr Shivani	Barriers to Insulin Therapy.	SPEEDCON. 3rd to 4th February, 2024.	SPEEDCON. New Delhi
(b)	Dr Shivani	A Case Report of Fibrodysplasia Ossificans Progressiva	ESICON 2023, Hyderabad	ESI

6. Faculty achievements - awards, honours etc.

- (a) Number of Awards Received (only from registered professional organization of national and international repute) *
- (b) Number of Recognition Received (only from registered professional organization of national and international repute) *

7. Guest Speaker.

- (a) Testosterone supplementation in aging male. Sensitizing consulting physicians about endocrinology practice (SCOPE). Endocrine society of India. Online 7th July 2023.



- (b) Management of diabetes during pregnancy. Physician form Bathinda. 10th sept 2023.
- (c) Gestational Diabetes Mellitus. Medtalks. Online. 18th September 2023.
- (d) Panel Discussion: Counselling Skills. RSSDI, 16th -19th November 2023.
- (e) FRAX vs T score based thresholds for osteoporosis: Pros and cons in south Asian context. SAFES. ESICON 14th-17th December 2023.
- (f) Quizmaster. Endocrine society of India. TYSA- Young scholar award. Online. 27th- 28th Jan 2024.
- (g) GLP-1 Agonists- caution and precautions. SPEEDCON. 3rd to 4th February, 2024.

8. **Research activities undertaken in the department.**

- (a) Number of **Project Submitted** with the name of Funding Agency*
- (b) Number of **Project undergoing** with the name of Funding Agency*

<u>Sr</u>	<u>Name & designation of PI</u>	<u>Title of the project</u>	<u>Source of support Intramural/ extramural</u>	<u>Status (ongoing/ completed)</u>	<u>Budget</u>
<u>Projects Sanctioned.</u>					
(a)	Shivani	To study the association of non-alcoholic fatty liver disease with neuropathy in pre diabetic patients (REFERENCE ID – 2023-07160)	STS Project ICMR	Completed	50,000
(b)	Dr.Shivani (PI)	Comparison of intermittent fasting versus low caloric diet in non-diabetic obese subjects	Intramural	Ongoing	-
(c)	Dr.Shivani (Co-PI)	Association between NAFLD/MAFLD and CKD across diverse stages via radiological and biochemical profiling: A pilot study	Intramural	Ongoing	
(d)	Dr.Shivani (Co-PI)	Artificial intelligence-based automated diagnosis of diabetic retinopathy with smartphone-based real-time mesopic fundus camera - An observational study.	Intramural	Ongoing	
(e)	Dr.Shivani (Co-PI)	Effect of overweight and obesity on cognitive functions	Intramural	Ongoing	
<u>Projects Submitted.</u>					
<u>Sr.</u>	<u>Title</u>	<u>Cost in Lakh</u>	<u>Month</u>	<u>Role as PI/Co-</u>	<u>Agency</u>
(a)	To Compare therapeutic role of Yoga and Intermittent fasting in glycaemia control among type-2 Diabetes patients via modulating genetic expression of inflammatory and metabolic parameters.	109	Nov 2023	PI	ICMR
(b)	To Study the effect of yoga-based exercise training and Curcuma longa (Turmeric) on healing of neuropathic diabetic foot ulcers: open labelled randomized controlled trial.	30	Nov 2023	PI	ICMR



(c)	To Study the effect of yoga-based exercise training on healing of neuropathic diabetic foot ulcers – an open labelled randomized controlled trial” submitted at the ICMR e-PMS portal.	30	Nov 2023	PI	ICMR
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9. **Papers and Books/chapters published by the department:-**

- (a) Ganie MA, Sidana S, Misgar RA, Sehar T, Sharma T. Prevalence and predictors of vitamin D deficiency among hospital staff in tertiary care center: a cross sectional study. *Int J Community Med Public Health* 2023;2010:4234-41.
- (b) Shivani Sidana*, Varun Aggarwal, Amit Narang. Skull Radiography of Patient with Acromegaly- Unusual Hair On End Appearance. *International Journal of Scientific Research*. Volume – 12, Issue – 10, October – 2023, DOI : 10.36106/ijsr.
- (c) Goel A, Kapatia G, Gupta S, Gupta V, Sidana S. Comments on "Diagnostic models for predicting malignancy in thyroid nodules classified as Bethesda category III in an endemic region". *Diagn Cytopathol*. 2024 May;52(5):288-289. doi: 10.1002/dc.25302. Epub 2024 Mar 14. PMID: 38486129.
- (d) Sanjay Kalra, Shivani Sidana, SGLT2i Reduce Risk of Recurrent Gout Flares in Gout Patients with Type 2 Diabetes. Editorial, newsletter, medenexus August 31, 2023. <https://www.emedinexus.com/post/38589/>.
- (e) Sanjay Kalra, Shivani Sidana, GLP 1 RA-based treatment Strategies: selecting the best option Editorial, newsletter, medenexus. September 16, 2023 <https://www.emedinexus.com/post/38769/>.
- (f) Shivani Sidana, Sanjay Kalra, NT-proBNP: A Marker of CV Risk in Persons with Prediabetes. Editorial, newsletter, medenexus October 13, 2023. <https://www.emedinexus.com/post/39100/>.
- (g) Shivani Sidana, Sanjay Kalra, Potential Benefits of Aspirin in MASLD. Editorial, newsletter, medenexus March 26th 2024. <https://www.emedinexus.com/post/41100/>.
- (h) Shivani Sidana, Sanjay Kalra, Hepatic Steatosis and CKD risk Editorial, newsletter, medenexus March 11 2024. <https://www.emedinexus.com/post/40910/>.
- (j) Shivani Sidana, Sanjay Kalra, Persistent Hypertriglyceridemia and Risk of Incident Type 2 Diabetes among Young Adults. Editorial, newsletter, medenexus 13 February 2024. <https://www.emedinexus.com/post/40570/>.
- (k) Shivani Sidana, Sanjay Kalra, The Case for Fludrocortisone + Hydrocortisone in Septic Shock. Editorial, newsletter, medenexus 10 February 2024. <https://www.emedinexus.com/post/40429/>.
- (l) Shivani Sidana, Sanjay Kalra Continuous Ketone Monitoring to Prevent DKA: The Future of Type 1 Diabetes Care?. Editorial, newsletter, medenexus 10 December 2023. <https://www.emedinexus.com/post/39800/>.
- (m) Shivani Sidana, Sanjay Kalra. Diabetes and Risk of Heart Disease in Young Women. Editorial, newsletter, medenexus 16 November 2023. <https://www.emedinexus.com/post/39489/>.
- (n) Shivani Sidana, Sanjay Kalra. Groundbreaking First in Human Gene-Editing Treatment of Hypercholesterolemia: Advent of a New Era in Therapeutic Medicine? Editorial, newsletter, medenexus 29 November 2023. <https://www.emedinexus.com/post/39650/>.
- (o) Shivani Sidana, Sanjay Kalra Subclinical Hypothyroidism: A Risk Factor for Sarcopenia? Editorial, newsletter, medenexus 31 October 2023. <https://www.emedinexus.com/post/39310/>.
- (p) Shivani Sidana, Sanjay Kalra. Groundbreaking First in Human Gene-Editing Treatment of Hypercholesterolemia: Advent of a New Era in Therapeutic Medicine? Editorial, newsletter, medenexus 29 November 2023. <https://www.emedinexus.com/post/39650/>.



10. **Other important Highlights of the department.**

- (a) Training activities conducted, surgeries, camps, etc.
 - (i) Organized free diabetes screening camp on World Diabetes Day (Nov. 14th ,2023) along with distribution of free Insulin pens and cooling wallets to the patients.
 - (ii) Fibro-scan Camp. 4th August 2023, 2nd May 2023, 3rd July 2023. 22nd January 2024 OPD, AIIMS Bathinda.
- (b) Number of Workshop Organized* .
 - (i) Organized “Candid Kids” education program for type 1 diabetes children on World diabetes day and children day 23rd November 2023. AIIMS Bathinda.
 - (ii) Organized Nursing Day program for Nursing education. AIIMS Bathinda.

11. **Number of Thesis Supervised MD/MS*:-**

- (a) Dr. Kanwarpreet. Pharmacology: Study on pattern and prevalence of eating disorders in type 1 diabetes mellitus and its response to cyanocobalamin supplementation”.
- (b) Dr. Kriti Kalra. Pharmacology: Efficacy and safety of Ipeglimin versus Sitagliptin as add-on therapy in type 2 diabetes mellitus patients not achieving glycaemic control on metformin: an open label single center randomized control trial.
- (c) Dr. E J Harish Vasanthan. Radiology: High Resolution Ultrasonography of tibial and sural nerves in adult prediabetes patients and its correlation with nerve conduction study.
- (d) Dr. Rohini choudhary. Radiology- Role of Dual Energy Computed tomography for pancreatic fat quantification in type 2 diabetes mellitus patients.
- (e) Dr. Bharath G. General Medicine- Prevalence of peripheral neuropathy in patients of type 2 diabetes mellitus and its correlation with 25-OH- vitamin D levels.
- (f) Dr. Ayushi Sharma. ENT: Impact of HbA1c levels on the progression and outcomes of mucormycosis in diabetic patients: Ambispective study.
- (g) Dr. Alekh Mandela. CFM. Identification of Diabetes Mellitus patients at risk of developing Latent Autoimmune Diabetes in Adults and study its determinants: a cross sectional study from North India.

12. **Any other achievements in number*:-**

- (a) Collaboration with NGO- People to People Health Foundation and started free distribution of insulin, glucose testing strips, insulin syringes and pens etc to the 50 poor needy patients.
- (b) 26th February 2024. Started DEXA- BMD measuring services at Endocrinology OPD.



NURSES DAY (12 MAY 2023)



DIABETES DAY (14 NOV 2023)

- (i) Planning to process the works of Examination Cell on LMS software such as submission of Professional Examination form and also result will be published through software.
- (ii) Planning to conduct DM/MCH/MD/MS Exam and preparation/finalization of format as DM/MCH/MD/MS is scheduled tentatively in December 2024.
- (iii) To enhance the checking/evaluation of answer booklet timely and keeping the secrecy intact, Table Marking will be started as soon as possible in the Examination Cell.



- (iv) MCQ papers will be checked through OMR machines.
- (v) For meticulous record keeping compactors will be purchased.
- (vi) OMR machine with the software will be purchased for quick and accurate checking of all the MCQ answer sheets for all professional Examinations.



SD- DEAN EXAMINATIONS



DEPARTMENT OF ENT HEAD AND NECK SURGERY

Name of the Department	ENT Head and Neck Surgery
Head of the Department	Dr. Vaibhav Saini

1. **Faculty Details.**

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr Vaibhav Saini	Additional Professor	21/12/2019
(b)	Dr Vikasdeep Gupta	Associate Professor	26.11.2019
(c)	Dr Nikhil Rajan	Assistant Professor	16/11/2021
(d)	Dr Ankur Mohan	Assistant Professor	07/11/2023

2. **Brief Introduction of the department.** We, at the Department of ENT, Head and Neck Surgery strive to provide state of the art clinical and surgical care to patients suffering from diseases of the ear, nose, throat, head and neck, including cancers. Our mission is to serve as the apex tertiary care facility for patients from all nearby areas and states, to provide them timely care with utmost precision, dedication, compassion, and empathy. The Department also aims to train both postgraduate and undergraduate students with strong clinical skills, scientific outlook, and research exposure to nurture them as future leaders of the healthcare ecosystem. It is our humble mission to conduct ethically sound research that translates into preventive care, innovative cures, and out of the box solutions to reduce ENT disease incidence in the community we serve. Currently we train one batch of undergraduate students and two postgraduate students per year.

3. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
National Conferences.				
(a)	Dr Vaibhav Saini	(i) "Otorhinolaryngology Surgical Conclav-2023" (ii) Faculty talk on "Orbital diseases: A Rhinologist perspective" (iii) Chairperson and Delegate (iv) Faculty talk on "anatomy of temporal bone" (v) Faculty talk on "Minimally invasive parathyroid adenoma"	National 29 th -30 th April 2023 conference RHINOCON December '23 15-17 Dec 2023 AOICON - 4 th -7 th JAN 2024 76 th PIMACON - 2023 IAOHNS 2023	Fortis hospital, Mohali S.P. Medical College Bikaner BANGALORE PATIALA JAMMU
(b)	Dr Vikasdeep Gupta	(i) Faculty Talk on 'Endoscopic stapedotomy tips and tricks' (ii) Faculty talk on 'Endoscopic stapedotomy: a paradigm shift' (iii) Faculty talk on "Orbital diseases: A Rhinologist perspective"	Uttarakhand state Conference in April 2023 National conference (IAOHNS) National conference RHINOCON December '23	AIIMS Rishikesh Jammu S.P. Medical College Bikaner
(c)	Dr Nikhil Rajan	Approaches to parapharyngeal space tumors	AOICON Punjab held at Amritsar	AOI Punjab
(d)	Dr Ankur Mohan	(i) Delegate (ii) Delegate	IAOHNS 2023 AOICON Punjab held at Amritsar	JAMMU AOI Punjab



4. **Faculty achievements - awards, honours etc.**

Sr.	Name of faculty	Award/honour	Event	Organised by
(a)	Dr Vaibhav Saini			
(b)	Dr Vikasdeep Gupta	Nil		
(c)	Dr Nikhil Rajan	1.Best innovative idea	IDEATHON 3.0	Central University of Punjab
(d)	Dr Ankur Mohan			

5. **Research activities undertaken in the department:-**

Sr.	Name & designation of PI	Title of the project	Source of support Intramural/ extramural	Status (ongoing/ completed)	Budget
(a)	Dr Nikhil Rajan (Assistant Professor)	Comparison of the effectiveness of video-otoscopic to conventional otoscopic training in the otoscopic proficiency of undergraduate medical students: A Randomized controlled trial	Unfunded	Ongoing	Nil
(b)	Dr Nikhil Rajan (Assistant Professor)	Ultrasonography vs airway endoscopy for the assessment of vocal fold function and subglottic airway patency prior to tracheostomy decannulation in tracheostomized children. A prospective observational study.	Intramural	Ongoing	6000 rupees
(c)	Dr. Vikasdeep Gupta (As PI)	(i) Assessment of Eustachian tube function by Saccharin Clearance test and its effect on surgical outcome of type-1 endoscopic tympanoplasty. A prospective study. (ii) "Clinical and cephalometric relationship of the upper airway in adenotonsillar hypertrophy patients" (iii) "Age Related Hearing Impairment: Demography and Quality of life	NON FUNDED		
(d)	Dr Nikhil Rajan (Co-PI)	Comprehensive evaluation of the factors leading to an incomplete response to therapy in Invasive Aspergillus Rhinosinusitis.	Extramural (ICMR)	Awaiting approval	
(e)	Dr. Ankur Mohan	To investigate neuropsychiatric side effects of Montelukast	Extramural (ICMR)	Awaiting approval	

6. **Papers and Books/chapters published by the department.** Hariram Sankar, Ankur Mohan, Shailendra Singh Rana, Nikhil Rajan. Atypical Presentation of Invasive Aspergillosis in the Infralabial Region of the Face in an Immunocompetent Young Adult: A Case Report | Journal of Maxillofacial and Oral Surgery [Internet]. [cited 2024 Jul 31]. Available from: <https://link.springer.com/article/10.1007/s12663-023-02078-0>



<u>Name of faculty</u>	<u>Research Papers (23-24)</u>	<u>Book chapters</u>	<u>I10 Index</u>	<u>H index</u>
Dr Vaibhav Saini	03	0	0	03
Dr Vikasdeep Gupta	02	0	0	03
Dr Nikhil Rajan	01	0	0	03
Dr Ankur Mohan	01	0	0	01

7. **Other important Highlights of the department:-**

(a) **New services started in 2023-2024.**

- (i) Navigation guided anterior and lateral skull base surgeries have been started in the department.
- (ii) Training activities conducted.
- (iii) World hearing day celebration 2024 with poster making competition.

8. **Number of Thesis Supervised MD/MS* - 5.**





DEPARTMENT OF FORENSIC MEDICINE AND TOXICOLOGY

Name of the Department	Forensic Medicine and Toxicology
Head of the Department	Dr. Akhilesh Pathak

1. Faculty Details.

<u>Sr.</u>	<u>Name of faculty</u>	<u>Designation</u>	<u>Date of Joining</u>
(a)	Dr Akhilesh Pathak	Professor	13/11/2019
(b)	Dr Ajay Kumar	Additional Professor	06/12/2019
(c)	Dr Jyoti Barwa	Additional Professor	02/12/2019
(d)	Dr Rattan Singh	Associate Professor	02/12/2019

2. Brief Introduction of the department.

(a) **Mission.** The Department of Forensic Medicine and Toxicology, AIIMS Bathinda, is progressing with its future mission of establishing a world-class mortuary with in-house facilities of radiographic imaging equipped with performing virtual autopsy. Department is also striving to establish state-of-the-art laboratories such as Toxicology, Crime-scene, Anthropology, Histo-pathology, and DNA within the department.

(b) **Teaching.** The department provides undergraduate teaching in forensic medicine and toxicology to the students of 2nd Professional MBBS (semesters III, IV, and V) as well as MD in F.M.T (Post Graduate). The purpose of teaching is to provide a medical professional who is well-informed about his medico-legal responsibilities in medical practice. He/ she would be able to make observations as well as inferences by logical deductions efficiently in order to facilitate inquiries on the right track in criminal matters and connected medicolegal issues.

(c) **Training.** Train the MSc Forensic Nursing and Forensic Dentistry Students during the training session about the various aspects of Forensic Medicine and Toxicology, including postmortem changes, Crime scene investigation, Trace Evidence, Forensic Anthropology, Osteology, and Forensic Photography in AIIMS Bathinda.

3. Patient-related service.

(a) Conduction of routine medico-legal post-mortem examination of cases belonging to the jurisdiction of AIIMS Bathinda.

(b) Clinical forensic medicine work, such as the preparation of medicolegal reports in various types of medicolegal cases, is done around the clock.

(c) Medical Board for providing the subsequent opinion about the medicolegal cases.

(d) Medical Board for providing Opinion on the age of Ossification.

(e) Medical Board for conducting post-mortem examination in referred cases.

(f) **Patient Care.**

<u>Sr.</u>	<u>Category</u>	<u>Number</u>
(i)	Any special clinic/activity	Medico-Legal Reports Preparation for clinical Forensic cases.

4. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

(a) **Dr. Akhilesh Pathak.**

(i) Invited to preside as Jury Member for an event MEDHA-2023- Organized by IIT Mumbai on 6th -7th May 2023 and hosted by Lovely Professional University, Punjab.



- (ii) Invited as a guest speaker for a lecture on “Challenges in Getting Manpower in Mortuary” at the 12th International Conference of the Indian Academy of Medico-legal Experts (IAMLE) on 31 May-4th Jun 2023 at NEIGRIHMS, Shillong, Meghalaya.
- (iii) Delivered a talk at the International Conference of 14th Scientific Conference of Balkan Academy of Forensic Science in Istanbul, Turkey, on 5-8 October 2023.
- (iv) Invited as a guest speaker for a lecture on “Challenges in Getting Manpower in Mortuary” at the National Conference of the Rajasthan Forensic Medicon 2023 on 4-5 November 2023 at SP Government Medical College, Bikaner, Rajasthan.
- (v) Invited as a guest speaker for a lecture in National Forensic Science University (NFSU) Delhi on “Role of Forensic Nursing in Emergency Settings: An Indian Perspective” on 13-14 December 2023.
- (vi) I was invited as a guest speaker at the National Conference of Indian Academy of Forensic Medicine “Forensic Medicon-2024” at AIIMS Nagpur from 17-20 January 2024 for a talk on “Addressing Challenges in Recruitment of Manpower in Mortuary.”

(b) **Dr Ajay Kumar.**

- (i) Resource person/ Faculty (writing a research paper) in Research Methodology Workshop on Thesis Writing held from 17th to 22nd March 2024 IN AIIMS Bathinda.
- (ii) Participated as a delegate and Judge in Mid-year CME PAFMAT 2023 & 7th Annual Conference of SPIC, organized by Dept of FMT, Government Medical College & Hospital, Chandigarh on 12-08-2023.
- (iii) Guest Lecture on “Validation and standardization of data collection tools” in Workshop on Writing a Proposal for Research Grant on 22-23rd April 2023.
- (iv) Participated as a delegate in Indian Academy of Forensic Medicine Conference in Lucknow 2023.
- (v) Participated as a delegate and Chairperson in Clinical Forensic Medicine: Practice & Challenges Organized by DEPARTMENT OF FORENSIC MEDICINE & TOXICOLOGY SARDAR PATEL MEDICAL COLLEGE, BIKANER, RAJASTHAN on 4th & 5th November 2023.
- (vi) Guest Lecture on Ethics in Clinical Practice” at ACP India case Files in the American College of Physicians- India Chapter on 31st August 2023.
- (vii) Participated as a delegate and Chairperson in Mid-Year CME cum Conference of Punjab Academy of Forensic Medicine and Toxicology on Recent Developments in Medicolegal Practice on 11th June 2022 at Kalpana Chawla Govt Medical College, Karnal Panipat, HR.
- (viii) Participated as a panelist, Judge and delegate in Forensic Eye 2024 Conference of Forensic Medicine and Toxicology organised by Himalayan Institute of Medical Sciences HIMS, Jolly Grant, Dehradun Uttarakhand on 29-30th March 2024.

(c) **Dr. Jyoti Barwa.**

- (i) Participated as a delegate and Judge in Mid-year CME PAFMAT 2023 & 7th Annual Conference of SPIC, organized by Dept of FMT, Government Medical College & Hospital, Chandigarh on 12-08-2023.
- (ii) Resource person/ Faculty (writing a research paper) in Research Methodology Workshop on Thesis Writing held from 17th to 22nd March 2024 IN AIIMS Bathinda.
- (iii) Successfully completed the “Online Good Clinical Practice Program” on 17 February 2024.



(iv) Participated as online delegate in “Enhancing Horizons in Forensics” (International CME) organized by GLAFIMS INDIA and Colegio Federal de Peritos, Mexico on 14-03-2024.

(v) Participated as a delegate in the research Grant Workshop Organized by Research Advisory Committee of AIIMS Bathinda on 22 to 23rd April 2023.

(d) **Dr Rattan Singh.**

(i) Resource person/ Faculty in Research Methodology Workshop on Thesis Writing held from 17th to 22nd March 2024 IN AIIMS Bathinda.

(ii) Participated as a Chairperson and delegate in Forensic Eye 2024 Conference of Forensic Medicine and Toxicology organised by Himalayan Institute of Medical Sciences HIMS, Jolly Grant, Dehradun Uttarakhand on 29-30th March 2024.

(iii) Participated as online delegate in “Enhancing Horizons in Forensics” (International CME) organized by GLAFIMS INDIA and Colegio Federal de Peritos, Mexico on 14-03-2024.

Sr	Name & designation of faculty	Title/Topic	Details of the Event	Organised by
International Conferences.				
(a)	Dr. Akhilesh Pathak Professor & Head	Challenges in Getting Manpower in Mortuary	International Conference of the Indian Academy of Medico-legal Experts (IAMLE)	12th on 31 May-4th Jun 2023 at NEIGRIHMS, Shillong, Meghalaya.
(b)	Dr. Akhilesh Pathak Professor & Head	Challenges in Identification of the Unknown Deceased	International Conference of 14th Scientific Conference.	Balkan Academy of Forensic Science in Istanbul, Turkey, on 5-8 October 2023
National Conferences.				
(a)	Dr. Akhilesh Pathak Professor & Head	Invited to preside as Jury Member for an event MEDHA-2023.	MEDHA-2023	Organized by IIT Mumbai on 6th -7th May 2023 and hosted by Lovely Professional University, Punjab.
(b)	Dr. Akhilesh Pathak Professor & Head	Guest speaker for a lecture on “Challenges in Getting Manpower in Mortuary”	National Conference of the Rajasthan Forensic Medicon-2023 on 4-5 November 2023	Rajasthan Academy of Forensic Medicine and Toxicology at Government Medical College, Bikaner, Rajasthan.
(c)	Dr. Akhilesh Pathak Professor & Head	Guest speaker in on “Role of Forensic Nursing in Emergency Settings: An Indian Perspective”	Advanced in Forensic Science and Impediments NFSU Delhi	National Forensic Science University (NFSU) Delhi 12-13 Dec 2023



(d)	Dr. Akhilesh Pathak Professor & Head	Guest speaker on “Addressing Challenges in Recruitment of Manpower in Mortuary.”	National Conference of Indian Academy of Forensic Medicine “Forensic Medicon-2024”	AIIMS Nagpur from 17-20 January 2024
(e)	Dr Ajay Kumar	To study advanced Medical Directives of the serious COVID-19 patients admitted in AIIMS Bathinda: A retrospective study	Indian Academy of Forensic Medicine Conference	IAFM

5. **Faculty achievements - awards, honours etc.**

Sr.	Name & designation of faculty	Award/honour	Event	Organised by
(a)	Dr. Akhilesh Pathak Professor & Head	Noble Indian Eminent Professor Award 2024	National Conference	International Multidisciplinary Research Foundation.
(b)	Dr. Akhilesh Pathak Professor & Head	Patent Published	A Dynamic slant board device for improved calf stretching	In Association with LPU
(c)	Professor & Head Professor & Head	Patent Published	Distal humerus extra-articular pre-contoured Y plate	In Association with LPU
(d)	Dr. Akhilesh Pathak Professor & Head	Patent Published	Tibial Anterior Cruciate Ligament Avulsion Fixation Guide.	In Association with LPU
(e)	Dr Ajay Kumar, Additional Professor	Fellowship of International Medical Sciences Academy 2024	-	IMSA
(f)	Dr Ajay Kumar, Additional Professor	Certificate of Achievement for best-selling book Entitled OSCE and OSPE in Forensic Medicine ISBN 9789391208370 in year 2023	-	IP publication
(g)	Dr Ajay Kumar, Additional Professor	Masters in Public Administration	-	IGNOU
(h)	Dr Ajay Kumar, Additional Professor	PGDHRM from IGNOU	-	IGNOU

6. **Research activities undertaken in the department.**

Sr	Name & designation of PI	Title of the project	Source of support Intramural/ extramural etc	Status (ongoing/ completed)	Budget
Projects Sanctioned.					
(a)	Dr. Akhilesh Pathak	Surveillance of Homicide	Intramural	ongoing	



(b)	Dr. Akhilesh Pathak	Assessing the effectiveness of workshop on intellectual property rights, design and patent filing	Intramural	ongoing	
(c)	Dr Ajay Kumar	Estimation of quality of Medicolegal work in Bathinda (Panjab)	Intramural	ongoing	
(d)	Dr Ajay Kumar	Comparison of Virtual Autopsies (VA) to Traditional Autopsies (TA) Findings and psychological impact on Relatives in Unnatural Deaths- 2 years hospital-based prospective study	Extramural (ICMR)	Result awaited	
(e)	Dr Ajay Kumar	To evaluate mental Status and financial burden for dignified management of the dead, from death to cremation, in relatives of patients expired in tertiary care hospital -a 2 year study	Extramural (ICMR)	Result awaited	
(f)	Dr Ajay Kumar	To study Protein Breakdown in Human Cadaver Muscles: A Key to unlocking Post-mortem Interval	Extramural (ICMR)	Result awaited	
(g)	Dr Jyoti Barwa	Study of pattern of tattoos among adult population with substance abuse in Bathinda district.	Intramural	Ongoing	NA
(h)	Dr Rattan Singh	Applicability of non- toxic substances for visualization of latent fingerp	Intramural	Ongoing	NA
(j)	Dr Rattan Singh	Strategic evaluation of Clinical Forensic cases in AIIMS Bathinda	Intramural	Ongoing	NA
Projects submitted. - NIL.					
(a)	Dr Ajay Kumar	Sex determination by maxillary sinus area on lateral cephalogram: A novel retrospective study in North Indian Population	Intramural-ICMR (STS)	completed	

7. **Papers and Books/chapters published by the faculty.**

(a) **Book.** Book Titled '*OSCE and OSPE in Forensic Toxicology*' by editor **Dr Ajay Kumar**, 1st Ed. Innovative Publications New Delhi 2024.

(b) **Book Chapters.**

(i) **Dr Ajay Kumar:** Chapters "General Toxicology", "Corrosive Poisoning", "Metallic Poisoning", "Organic Irritant Poisoning", "Cardiac Poisons and "Miscellaneous Poisoning in Book Titled: *OSCE and OSPE in Forensic Toxicology* by editor Dr Ajay Kumar, 1st Ed. Innovative publications New Delhi 2024.



(ii) **Dr Ajay Kumar, Dr Jyoti Barwa & Dr Rattan Singh:** Book Chapter titled: Medical Records, in a book to be published by Editor Dr Putul Mahanta. Modern Textbook of Forensic Medicine and Toxicology ISBN: 978-93-5152-211-9 Accepted for Publication.

(iii) **Dr Jyoti Barwa:** Book Chapter titled: CNS Depressants in 'OSCE & OCPE in Forensic Toxicology' edited by Dr Ajay Kumar, I.P Publication 2024.

(iv) **Dr Rattan Singh:** Book Chapter titled: CNS Deliriant in 'OSCE & OCPE in Forensic Toxicology' edited by Dr Ajay Kumar, I.P Publication 2024.

(c) **Published Papers.**

(i) **Kumar A,** Rana S, Gupta S, Patra A. *Cephalometric Analysis of Maxillary Sinus for Gender Determination Using Lateral Cephalogram: A Novel Retrospective Study in North Indian Population.* Cureus.

(ii) Singh P I, **Kumar A,** Singh A, Harish D. *Morphological Analysis Of Thyroid Gland In Cases Of Alleged Suicidal Deaths: A Prospective Analysis.* International Journal of Medical Science and Current Research January-February 2023 Vol 6(1):152-8.

(iii) **Kumar A,** Mandar R Sane, Singh A, Harish D. *Audit Of Histopathological Examination In Medico-Legal Autopsies In A Tertiary Care Hospital - A 3-Year Retrospective Study.* International Journal of Medical Science and Current Research Mar-April 2023 Vol 6(2):688-95.

(iv) **Kumar A, Barwa J, Pathak A, Singh R.** (2023) *Ethical and Medicolegal Issues In Retention Of Organs After Autopsy, For Teaching Purposes.* Ijmscr 6 (2):683-687.

(v) Gupta K, Thalaur S, **Singh R, Barwa J,** Das S.(2023) *Stature Estimation from Finger Length by Regression Equation.* IJCSRR 6(2): 1537-1541.

(vi) **Kumar A, Singh R.** *India's latest NHRC Advisory on the Problem of Floating Corpses in the River Ganges: Forensic Dental Recommendation.* J Indian Acad Forensic Med. 2023 Oct-Dec 45(4):438.

(vii) **Kumar A, Barwa J, Pathak A, Singh R.** *Concept of Advance medical directives in the Indian Scenario.* Int J Health Res Medico Leg Prae 2023 Jan-Jun;9(1):8-9. Doi: 10.31741/ijhrmlp.v9.il.2023.2.

8. **Other important Highlights of the department.**

(a) **Organized Conferences/CMEs/Workshop/Training.**

(i) Organized a Crime Scene Workshop in AIIMS Bathinda on 14th Apr 2023 in capacity of Professor & Head.

(ii) Organized a debate on Euthanasia-An Indian Perspective on 12th May 2023 in AIIMS Bathinda in capacity of Professor & Head.

(iii) Organised 5-day "Orientation Program" for the MD-MS-MDS students of Batch-2024 from 1st January 2024 to 4th January 2024 in AIIMS Bathinda in capacity of Dean Academics.

(iv) Organised a 5-day "Orientation Program" for the Internship students of Batch-2019 from 1st January 2024 to 4th January 2024 in AIIMS Bathinda in capacity of Dean Academics.

(v) Organized 2 days hands-on training workshop on "Intellectual Property Rights, Patent and Design Filing" on 24-25 January 2024 in AIIMS Bathinda in capacity of Dean Academics.

(vi) Annual symposium on occupational health and agricultural and skill development on 10th August 2023 in AIIMS Bathinda.

(vii) Teaching and training of students of MSc Forensic Nursing and Forensic odontology during their tenure in AIIMS Bathinda.

9. **Chairperson in Conferences.**

(a) Dr. Akhilesh Pathak chaired a session in the CME of Punjab Academy of Forensic Medicine and Toxicology on 12 Aug at Government Medical College Chandigarh.

(b) Dr. Akhilesh Pathak was a Jury Member for a session in the National Conference of the Rajasthan Forensic Medicine 2023 on 4-5 November 2023 at SP Government Medical College, Bikaner, Rajasthan.

(c) Dr. Akhilesh Pathak chaired a session at the conference of Punjab Academy of Forensic Medicine and Toxicology on 23 December 2023 at Baba Faridkot Government Medical College Faridkot, Punjab.

9. **Number of Thesis Supervised MD/MS*.**

(a) 01 (completed): *Estimation of Facial Soft Tissue Thickness by 3D-CT in Punjabi Population for Craniofacial Reconstruction*

(b) 01 (ongoing): *A Study to Determine Postmortem Interval by Analyzing Cellular Changes in Bone Marrow in Autopsy Cases.*

10. **Other achievements in number*.**



FMT/03



DEPARTMENT OF GENERAL MEDICINE

Name of the Department	General Medicine
Head of the Department	Dr Preeti Singh Dhoat

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr. Preeti Singh Dhoat	Professor	07-12-2019
(b)	Dr. Amandeep Kaur	Associate Professor	02-12-2019
(c)	Dr. Niket Verma	Assistant Professor	31-08-2021
(d)	Dr. Maninder Kansal	Assistant Professor	08-04-2022
(e)	Dr. Deepak Chaudhary	Assistant Professor	11-04-2022
(f)	Dr. Rohit Raina	Assistant Professor	22-01-2024

2. Brief Introduction of the department.

(a) **Outpatient Service.** Medicine OPD had been one of the busiest OPDs of our institute catering to all sorts of patients from in and around Bathinda. Thoroughly examined the patients, elicited medical history data, devised the treatment plans, and implemented therapeutic regimens to administer high level of care to these patients.

(b) **In Patient Service.** With the beginning of IPD services, patients have been admitted to Emergency, MICU and medicine wards and have been administered high level of tertiary care.

(c) **Pre-Anaesthetic Check Up (PAC).** Patients posted for operative procedures were sent for various comorbidities management as well as risk stratification. These patients were managed for underlying comorbidities and were given final fitness for operative procedures as per there the associated risks.

(d) **Calls for Inpatients.** IPD patients who were admitted for operative procedures were managed for their associated comorbidities as well as for complications during admission as well as during operative and post-operative procedures.

(d) **Special Clinics.**

- (i) Fibro scan and liver clinic.
- (ii) Diabetes clinic.
- (iii) Hypertension clinic.
- (iv) Rheumatology clinic.

(e) Undergraduate Theory teaching classes of the second year, third year and final year MBBS students were taken since the beginning of their session as per the roster.

(f) Classes during the clinical posting of the second year, 3rd year and final year undergraduate students in the department of Medicine were taken as per the roster.

(g) PG teaching in the form of case presentations, seminars and journal clubs were conducted during the academic session as per the roster.



3. Future plan of the department.

- (a) The department of General Medicine plans to start fellowship courses in Infectious diseases, Tropical diseases and Critical Care medicine.
- (b) The department of General Medicine plans to upgrade the ICU services.
- (c) The department of General Medicine plans to introduce newer innovative small group teaching learning methods for MBBS students as per latest NMC CBME guidelines. These methods are faculty intensive and require more teaching hours.

4. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

<u>Sr.</u>	<u>Name of faculty</u>	<u>Title/Topic</u>	<u>Details of the Event</u>	<u>Organised by</u>
(a)	Dr. Preeti Singh Dhoat	(i) Sensitization Meeting for sentinel surveillance Sites of Zoonosis. Topic Clinical Diagnosis and Challenges of zoonotic diseases in medicine. (ii) Case report on long COVID syndrome under. (iii) Association Of The Physicians of India Malwa branch; On the topic Approach to Transaminitis. (iv) Annual Symposium on Occupational Health and Safety in Agriculture and Skill Development.in association with UPL Limited. And deptt of Forensic Medicine. (v) ON the topic of therapeutic drug monitoring- is it essential or dispensable? (vi) "Preventing Antimicrobial Resistance together" on topic CRE-CRAB-CRPsA: Nightmare in ICU setting on 22 nd Nov 2023. (vii) Case presentation under the prestigious John Tooker Evergreen award-winning series ACP India Chapter Hashimoto encephalopathy vs catatonia a diagnostic dilemma.	(i) Speaker (ii) Speaker (iii) Speaker (iv) Guest Speaker (v) Speaker (vi) Speaker (vii) Speaker	(i) AIIMS Bathinda (ii) Project ECHO (iii) MAPICON 2023,10 th Annual Conference (iv) 10 th August 2023 (v) ASPICON 2023 29 th SEPTEMBER TO 1 ST OCTOBER AIIMS JODHPUR (vi) World AMR Awareness Week 2023 (vii) 28-10-32023.ACP Case Files
(b)	Dr. Amandeep Kaur	(i) Endocrine complications of long covid (ii) Rheumatological complications in patients with Diabetes mellitus as a part of session	(i) Guest lecture (ii) Guest lecture	(i) ECHO session India on 28 th April 2023. (ii) MEDTALKS by Dr KK Aggarwal



(c)	Dr. Niket Verma	<p>(i) 1st Faculty Workshop on Medical Education Technologies</p> <p>(ii) 'Mental Health & Diabetes'</p> <p>(iii) 'Formulating Research Question, Hypothesis and Objectives' at the Research Methodology Workshop on Thesis Writing at</p> <p>(iv) 'Self-Directed Learning'</p> <p>(v) 'Approach to Seizure Disorders' at the 10th Annual Conference</p> <p>(vi) 'The next revolution in Medicine – Are we ready? Artificial Intelligence'</p> <p>(vii) 'Formulating Research Question, Hypothesis and Objectives' and 'Summarizing Results, Tables and Figures'</p>	<p>(i) Invited as Resource Faculty</p> <p>(ii) Invited as Faculty</p> <p>(iii) Invited as Faculty to conduct a Hands-on Training session</p> <p>(iv) Invited as Faculty</p> <p>(v) Invited as Faculty</p> <p>(vi) Invited as Faculty</p> <p>(vii) Invited as Faculty</p>	<p>(i) AIIMS Bilaspur, Himachal Pradesh on 15-16 March 2023</p> <p>(ii) 31st Annual Conference on Diabetes DIABCON 2023 on 29 July 2023</p> <p>(iii) AIIMS Bathinda on 13 September 2023</p> <p>(iv) Orientation Programme for MBBS Batch 2023 on 18 September 2023</p> <p>(v) Association of Physicians of India (Malwa Branch) MAPICON 2023 on 22 September 2023</p> <p>(vi) Dr. KKs MEDTalks Episode 939 on 04 December 2023</p> <p>(vii) Research Methodology Workshop on Thesis Writing at AIIMS Bathinda from 17-22 March 2024</p>
(d)	Dr. Rohit Raina	"School Health and Awareness Program" to young school going students on 2nd March 2024	Delivered an Expert talk	AIIMS Bathinda

5. **Faculty achievements - awards, honours etc.**

<u>Sr.</u>	<u>Name of faculty</u>	<u>Award/honour</u>	<u>Event</u>	<u>Organised by</u>
(a)	Dr. Preeti Singh Dhoat	Women Physician of Year Award 2023	IM-ACP Bhuvneshwar	23 September 2023

6. **Research activities undertaken in the department.**

<u>Sr.</u>	<u>Name & designation of PI</u>	<u>Title of the project</u>	<u>Source of support Intramural / extramural</u>	<u>Status (ongoing/ completed)</u>	<u>Budget</u>
Projects Sanctioned.					
(a)	Dr. Preeti Singh Dhoat	<p>(i) To assess the beneficial effect of growth hormone therapy in elderly individuals with chronic congestive heart failure</p> <p>(ii) To study the prevalence, pattern, clinical spectrum, and demographic profile of</p>	<p>Extramural ICMR PI- Dr. Preeti S Dhoat AIIMS Bathinda</p> <p>Dr. Minakshi Dhar</p>	Ongoing	Approved Rs 6473000



		<p>congenital birth defects in a Tertiary care hospital in north India.</p> <p>(iii) To study the correlation between Non-Alcoholic Fatty Liver Disease and Dyslipidemia at a tertiary care center in north India</p> <p>(iv) Assessment of cognitive functions in obesity psycho-biochemical evidences.</p>	<p>AIIMS Rishikesh Dr. Sourabh Srivastava GIMS Greater Noida</p>			
Extramural Projects.						
(a)	Dr. Amandeep Kaur	<p>(i) Prevalence and outcome of comorbidities in patients with connective tissue disorders.</p> <p>(ii) Study of clinical features associated with paraquet poisoning with a special focus on pulmonary and cardiovascular system disorders and associated outcome.</p> <p>(iii) Association of symptoms with clinical and food preferences in gastritis patients- A cross sectional study</p> <p>(iv) Genetic, epigenetic, environmental, and biochemical investigations to understand the etiology and pathology of celiac disease.</p>	<p>Intramural</p> <p>Intramural</p>			
(b)	Dr. Niket Verma	<p>(i) Perceptions and knowledge among CMCL-FAIMER fellows after attending a one-month online discussion on Simulation Based Teaching</p> <p>(ii) Needs assessment of a formal online mentoring programme for MBBS students: a multicentric study</p> <p>(iii) Participant perception of faculty development workshops conducted as part of the Training the Trainers series at AIIMS Bathinda</p>		On going	NA	



(c)	Dr. Deepak Chaudhary	(i) Awareness & Acceptance of artificial sweetener in cases of Uncontrolled Diabetes Mellitus (ii) A Phase 4, 52 week, single arm, multicentre post marketing surveillance to evaluate the safety of Desidustat for the treatment of anemia in subjects with chronic kidney disease (CKD) (iii) Yoga Care HF Trial Bathinda site (iv) TOPSPIN trial (Treatment Optimisation for Blood Pressure with Single-Pill Combinations in India (TOPSPIN))		On going	NA
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7. **Papers and Books/chapters published by the department.**

(a) **Dr. Preeti Singh Dhoat.**

- (i) Sadikot International Textbook Of Medicine Jaypee Brothers Medical Publishers Authored By Dr Kamlakar Tripathi And Dr Banshi Saboo First Author Diabetes Self Management.
- (ii) Second Author; National List Of Essential Medicines And Accessibility To Antidiabetic Drugs In India.

(b) **Dr. Amandeep Kaur.** Summary of National and International Guidelines - cardiovascular disease and Diabetes published by RSSDI.

(c) **Dr. Niket Verma.**

- (i) Obesity, Competency Based Textbook of Biochemistry with Clinical Approach and Case Studies for MBBS Students, CBS Publishers, 2023; 978-93-5466-464-9.
- (ii) Evolutions and Revolutions in Medical Education, Progress in Medicine 2023' – An Official Publication of Indian College of Physicians, the Academic Wing of the Association of Physicians of India, Volume 33, Jaypee Brothers Medical Publishers, 2023, 978-935465681-1.

<u>Sr</u>	<u>List of Papers in Vancouverstyle</u>	<u>Type of paper (Original article / review / case report / editorial)</u>	<u>Impact Factor</u>
(i)	Verma N, Singla K, Toora B, Dixit R. Implementation of an Interactive Teaching Session using 'Snowball Technique' for Introducing 1st Professional MBBS Students to Clinical Correlation in Biochemistry. Journal of the Indian Medical Association. 2023 Aug;121(8):32–6.	Original article	0.031



(ii)	Dhoat PS, Kaur A, Verma N, Jain D. Hashimoto's encephalopathy versus catatonia: A diagnostic dilemma. J Family Med Prim Care 2023;12:400-2.	Case report	1.1
(iii)	Pathak A, Singh GP, Verma N. Advanced Compassionate Care for the Geriatric Population in India. The Primary Care Companion For CNS Disorders. 2023 Jun 13;25(3).	Editorial	1.6
(iv)	Delayed diagnosis of vasopressor-induced symmetrical peripheral gangrene in septic shock patients. JASPI vol2 issue 1 31 March 2024. Rohila R, Chaudhary D, Agarwal A, Dhoat PS	Original article	
(v)	Kaur A, Madhukar M, Dhoat P, Kaur N. Anthropometric indices and its association with hypertension in Indian population: A study from tertiary care centre of North India. J Pharm Bioall Sci 2023;15:S312-4.	Original article	0.143

(vi)	Kaur A, Poonia S, Singh K, Kaur D, Madhukar M, Godara R. Cytomorphological spectrum of head and neck lesions by fine needle aspiration cytology in a tertiary care center. J Pharm Bioall Sci 2023;15:S315-7.	Original article	0.143
(vii)	Kaur A, Kaur N, Madhukar M. Assessment of corrected QT interval and QT dispersion in patients with uncomplicated Metabolic syndrome. J Pharm Bioall Sci 2023; 15:S1097-100.	Original article	0.143
(viii)	Kaur A, Dhoat PS, Kaur N, Sahoo SS. Knowledge, Awareness, and Determinants of Medication Adherence in Hypertensive Patients: A Hospital-Based Cross-sectional Study in North India. J Pharm Bioallied Sci. 2024;16:S118-S121.	Original article	0.143
(ix)	Kaur N, Kaur A, Singh P, Kaur H, Sameer P, Sahoo S. Pulmonary mucormycosis as a presentation of COVID 19: Case series. Indian Journal of Tuberculosis. 10.1016/j.ijtb.2024.02.002.	Case series	1.483
(x)	Verma M, Kaur A, Upneja A, Dhoat P, et al. Is physical activity related to depression and anxiety among adults? Observations from a non-communicable disease Screening clinic in north India. Indian J Community Med 2023	Original article	0.9
(xi)	The Role of the Gut Microbiome and the hepatic axis in the pathogenesis of Metabolic Syndrome and Therapeutics. Divya KP, Hari P, Kanwar N, Aggarwal N, Dhoat PS, et al. Advanced Gut and Microbiome Research	Original article	
(xii)	Dhoat PS, Dhoat NS, Kaur A. Post COVID complication in patients admitted to a Tertiary Care Hospital in Northern India: A Prospective Study. An International Journal Indian Journal of Applied Research.2023;02(13): 25-26.	Original article	4.894
(xiii)	Use safety and adverse effects of thiazolidinediones- A Review. Accepted On 10th July 2023. World Journal Of Pharmaceutical Research volume 12, issue 12, 2023. SJIF IF 8. 084. Maheshwari A. Dhoat PS.	Review article	8.453



Sr.	Faculty Name	Research papers	Book/Book chapter	i10 Index	H index
(i)	Dr. Preeti Singh Dhoat	8	2	1	3
(ii)	Dr. Amandeep Kaur	7	1	0	3
(iii)	Dr. Niket Verma	3	2	6	6
(iv)	Dr. Maninder Kansal	0	0	0	1
(v)	Dr. Deepak Chaudhary	1	0	1	3
(vi)	Dr. Rohit Raina	0	0	0	2

8. **Other important Highlights of the department.**

(a) 'Anemia Awareness and Free Hb Screening Camp' conducted at AIIMS Bathinda on 10 April 2023, 20 September 2023, 26 October 2023.

(b) 'IBS Awareness and Free IBS Screening Camp' conducted at AIIMS Bathinda on 19 April 2023, 26 February 2024.

(c) 'Fatty Liver Awareness and Free Fibro scan Camp Week' conducted at AIIMS Bathinda from 23-27 January 2024.

(d) 'Expert Talk on Rheumatoid Arthritis' conducted at AIIMS Bathinda on 16 February 2024.

(e) 'Dyslipidemia Awareness and Free Lipid Profile Camp' conducted at AIIMS Bathinda on 11 March 2024.

(f) 'Fatty Liver Awareness and Free Fibro scan Camp' conducted at AIIMS Bathinda on 18 September 2023, 16 October 2023, 06 November 2023, 28 February 2024, 06 March 2024, 20 March 2024, 27 March 2024.

(g) 'Diabetes Awareness and Free RBS Camp' conducted at AIIMS Bathinda on 05 February 2024, 04 March 2024, 18 March 2024.

9. **Number of Thesis Supervised MD/MS.**

(a) Prevalence of glucose intolerance in study population of liver cirrhosis and correlation with risk factors of diabetes mellitus- A hospital based cross sectional study.

(b) Plasma D dimer levels as a biomarker for assessing liver dysfunction in patients with liver cirrhosis: A cross sectional study.

(c) Correlation of D dimer levels with severity of liver dysfunction in liver cirrhosis and its comparison with Child Pugh and MELD score.

(d) Prevalence of glucose intolerance in patients with liver cirrhosis and correlation with risk factors with diabetes mellitus.

(e) Prolactin levels in obese type 2 Diabetes mellitus and its association with carotid intima media thickness.

(f) Prevalence of peripheral neuropathy in patients with Type 2 Diabetes mellitus and its correlation with 25 hydroxy Vitamin D levels.

(g) Prognostic evaluation of frailty index in hospitalized elderly patients.

(h) Assessment of visual evoked potentials and its association with microvascular complications and higher mental functions in newly diagnosed hypertensive patients- Prospective observational study.

(j) To evaluate the effectiveness of oxygen releasing gel as an adjunct to non-surgical periodontal therapy on salivary and serum chemerin and interleukin 6 levels in patients with Type 2 diabetes mellitus-A randomized controlled clinical trial.

(k) Co guide of thesis of student from central univ of Punjab: Nonnutritive Sweeteners and alternative sugars usage pattern among patients living with Diabetes.

10. **Any other achievements in number***





DEPARTMENT OF GENERAL SURGERY

Name of the Department	General Surgery
Head of the Department	Dr. Mahendra Pratap Singh

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr. Mahendra Pratap Singh	Additional Professor	11/04/2022
(b)	Dr. Jaspreet Singh Shergill	Associate Professor	20/12/2019
(c)	Dr. Harmandeep Singh Jabbal	Assistant Professor	23/08/2021
(d)	Dr. Amrit Pal Singh Rana	Assistant Professor	21/08/2021
(e)	Dr. Harshitha Rani HM	Assistant Professor	27/12/2023
(f)	Dr. Vikram Saini	Assistant Professor	14/06/2024

2. Brief Introduction of the department.

(a) **Vision.** Department of General Surgery helps the medical field by educating the medical students to understand the clinical aspects of the disease. Surgical clinics helps in diagnosis, and management of the ailment. The medics will be able to perform in all the rare and difficult circumstances.

(b) **Mission Statement.** The objectives of the department are to provide quality medical education and to refine undergraduate/postgraduate medical students to meet the country's need for highly qualified doctors and medical teachers.

(c) The aim is to serve patient needs by setting up the surgical department with the advanced technologies to improve the results.

(d) The mission is to establish a centre of excellence in faculty and technician training, diagnosis and research.

3. Services Available in the department:-

- (a) GI & HPB ailment.
- (b) Laparoscopic surgery.
- (c) Breast & Thyroid diseases.
- (d) Varicose vein problems.
- (e) Lymphadenopathy/ surface swellings.
- (f) Haemorrhoids/ Fissure.
- (g) Trauma surgery/ Surgical Critical Care.
- (h) Colorectal surgery.
- (j) Vascular surgery.
- (k) Endocrine surgery.
- (l) Specialty Clinics/ services.
- (m) Bariatric & Metabolic surgery.
- (n) Diabetic Foot Clinic.
- (o) Breast Clinic.
- (p) AVF / CAPD Clinic.

4. Academics and teaching.

- (a) Ongoing Post-Graduate (M.S. General Surgery) & Graduate (MBBS) teaching.
- (b) STS Projects.
- (c) Regular CME & Conference engagements.



5. **Expansion planned for the future.**

- (a) To start Multi-Organ Transplant Program at AIIMS, Bathinda.
- (b) To start Fellowship and certificate courses for the training of Surgeons and technicians in various subspecialties of General Surgery.
- (c) To create research activities for medical students, residents and faculty.
- (d) To contribute actively in translational and clinical research.

6. **Patient Care.**

Sr.	Category	Number
(a)	Patients seen in OPD	30,106
(b)	Patients admitted in IPD	2492
(c)	Teleconsultations	
(d)	Procedures performed A. Major B. Minor	A. Major=1021 B. Minor – 3992
(e)	Any other special clinic/activity	(i) Bariatric Surgery Clinic. (ii) Diabetic Foot Clinic. (iii) AV Fistula and CAPD Clinic for ESRD

7. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
<u>National Conferences.</u>				
(a)	Dr. Mahendra Pratap Singh (Additional Professor)	Faculty (Chairperson) Pancreatic Transplantation	The Golden Anniversary Summit on Kidney & Pancreas Transplantation (24-26 Nov. 2023)	Department of Transplantation PGIMER, Chandigarh
(b)	Dr. Mahendra Pratap Singh	Multi Organ Retrieval Workshop Training	The Golden Anniversary Summit on Kidney & Pancreas Transplantation (24-26 Nov. 2023)	Department of Transplantation PGIMER, Chandigarh
(c)	Dr. Mahendra Pratap Singh	Renal Allograft Tuberculosis Masquerading as acute graft dysfunction	Oral Presentation (Annual Conference) 05- 08 Oct. 2023 ISOT – 2023, Kolkata	ISOT – 2023, Kolkata
(d)	Dr. Mahendra Pratap Singh	Early Surgical Stabilization of Chest Wall in the management of life threatening blunt chest Trauma : Our experience	Oral Presentation ISTSCON – 2023 (17 – 19 Nov. 2023)	ISTSCON – 2023, Bangalore
(e)	Dr. Mahendra Pratap Singh	Video Assisted Thoracic Surgery (VATS)	ISTSCON – 2023 (19 th Nov)	ISTSCON – 2023, Bangalore
(f)	Dr. Mahendra Pratap Singh	Faculty : Medical association for Simulation, Training, Education & Research (Master)	SIM – MEET (18 – 19 Aug. 2023)	SIM – MEET 2023, AIIMS, Delhi



(g)	Dr. Jaspreet Shergill (Associate Professor)	Faculty	LEADCON 2024	Coloplast Academy, India
(h)	Dr. Jaspreet Shergill	Chairperson	CME Plastic Surgery Day	AIIMS, Bathinda
(j)	Dr. Harmandeep Singh Jabbal	Setting Up a Bariatric Surgery Program	Bariatric & Metabolic Surgery – Live Operative Workshop	Dept. of Surgical Disciplines, AIIMS, Bathinda
(k)	Dr. Harmandeep Singh Jabbal	Advances in Pressure Injury Care	SPNCON 2024	INER, AIIMS, Bathinda
(l)	Dr. Harmandeep Singh Jabbal	Faculty	LEADCON 2024	Coloplast Academy, India
(m)	Dr. Harmandeep Singh Jabbal	Faculty	Punjab ASICON, 2023	ASI, India
(n)	Dr. Harmandeep Singh Jabbal	Faculty	National Burns Training Program (AIIMS, Delhi)	MOHFW
(o)	Dr. Harshitha Rani HM	Heterologous sarcomatous differentiation of phyllodes tumor: Case series and literature review	ASICON – 2023 (Vishakhapatnam)	ASI

8. **Faculty achievements - awards, honours etc.**

Sr.	Name of faculty	Award/honour	Event	Organised by
(a)	Dr. Harshitha Rani HM (Assistant Professor)	EFIAGES	EFIAGES – 2023	IAGES

9. **Research activities undertaken in the department.**

Sr.	Name & designation of PI	Title of the project	Source of support Intramural/ extramural	Status (ongoing/ completed)	Budget
Projects Sanctioned.					
(a)	Dr. Mahendra Pratap Singh PI	Proposal to develop of Minimal Access Surgery training and a randomized controlled trial to evaluate the effect to structured training with surface EMG to improve the ergonomic stress in laparoscopic procedures in Surgical residents. Centre in AIIMS Bathinda	intramural	On going	
(b)	Dr. Mahendra Pratap Singh PI	To Compare Inflammatory Markers in low pressure pneumoperitoneum RCT.	Intramural	In – Process	



(c)	Dr. Mahendra Pratap Singh PI	GECKO Trial	Extramural	Ongoing	
(d)	Dr. Mahendra Pratap Singh Co-PI	Impact of multipronged Interventions.... Implementation research	Extramural ICMR	Ongoing	
(e)	Dr. Mahendra Pratap Singh	Evaluation of Trauma Patients Experiences...	Extramural ICMR – STS	Completed	RS. 50,000
(f)	Dr. Jaspreet Shergill, Associate Professor, Co-PI	Factors associated with sudden deaths among adults aged 18-45 years, India: Multicentric matched case control study	Extramural	Completed	Rs.500 00
(g)	Amrit Pal Singh Rana (Co PI)	To evaluate association of Human papillomavirus infection in Breast Cancer in Malwa Region of Punjab	Intramural Project	Ongoing	Self funded
(h)	Amrit Pal Singh Rana (Co PI)	National Health Research Priority on Breast Cancer Survival Studies	ICMR	Ongoing	Appr 1 cr (Sanctioned 1 st year Budget 43,00,000)

Projects Submitted.

(a)	Dr MP Singh Additional Prof.	A prospective controlled clinical trial of surgical stabilization of rib fracture among patients with non-flail chest injury at tertiary care hospital in northern India	ICMR-extramural	In-process	
(b)	Dr MP Singh	Inflammatory markers in low pressure pneumoperitoneum with deep neuromuscular block versus standard pressure among patients undergoing laparoscopic cholecystectomy for gall stone disease: A randomized controlled trial	ICMR-extramural	In-process	
(c)	Amrit Pal Singh Rana (Co PI)	Patient Reported outcomes through a Mobile Application; Does it improve the clinical care of breast cancer patients?- A mixed method study	ICMR (In collaboration with Malabar Cancer Institute & JIPMER, Puducherry)	Submitted	Funded



10. **Papers and Books/chapters published by the department.**

Sr.	Name of faculty	Title/Topic	Publication	Index	
(a)	Dr. Mahendra Pratap Singh	Lymphocytic Emperipolesis in Breast Carcinoma on Cytology Smears – A curious Finding!	Cytopathology	PMID 37334920	
(b)	Dr. Jaspreet Singh Shergill	Factors associated with unexplained sudden deaths among adults aged 18-45 years in India – A multicentric matched case-control study.	Indian J Med Res 158, October 2023, pp 1-12	Index	DOI:10.4103/ijmr.ijmr_2105_23
(c)	Dr. Amrit Pal Singh Rana (Assistant Professor)	Mohanta, A., Kumar, R. R., Singh, R. K., Mandal, S., Yadav, R., Khatkar, R. MK Rana, APS Rana , Jain, A. (2023). Emerging Role of miR-320a in Lung Cancer: A Comprehensive Review.	Biomarkers in Medicine, 17(18), 767–781.	PubMed	https://doi.org/10.2217/bmm-2023-0215

11. **Dr. Mahendra Pratap Singh.**

- (a) Research papers – 1.
- (b) Book/Book chapter – 0.
- (c) i10 Index* - 3.
- (d) H index*- 5.

12. **Dr. Jaspreet Shergill.**

- (a) Research papers – 1.
- (b) Book/Book chapter – 1.
- (c) i10 Index* - 2.
- (d) H index*- 1 .

13. **Dr. Harmandeep Singh Jabbal.**

- (a) Research papers – 0.
- (b) Book/Book chapter – 0.
- (c) i10 Index* - 1.
- (d) H index*- 1.

14. **Dr. Amrit Pal Singh Rana.**

- (a) Research papers: 1.
- (b) Book/Book chapter: Nil.
- (c) i10 Index*: 7.
- (d) H index* : 7.
- (e) No. of citations : 260.

*According to Google Scholar database.

15. **Other important Highlights of the department: Training activities conducted, Surgical Skill Course** : scalpel symphony: - November 2023.

16. **Medical Camp.** Cancer screening camp for Veterans and Veer naris, at Talwandi Sabo Bathinda on 31 March 2024.

17. **Number of Workshop Organized.**

- (a) Basic surgical skill workshop- 25-26 November 2023.
- (b) Scalpel Symphony – Surgical Skill Workshop.

18. **Number of Conference Organized.**

- (a) Bariatric & Metabolic Surgery – Live Operative Workshop & Conference, Dept. of Surgical Disciplines, AIIMS, Bathinda.
 (b) CME on Surgical Residency at AIIMS, New Delhi – Prof. Dr. Sunil Chumber - Head, Surgical Disciplines, AIIMS, New Delhi.

19. **Number of Thesis Supervised MD/MS*.**

Sr	Faculty Name	Guide	Co – Guide
(a)	Dr. Mahendra Pratap Singh	03	06
(b)	Dr. Jaspreet Singh Shergill	02	04
(c)	Dr. Harmandeep Singh Jabbal (Assistant Professor)	02	02
(d)	Dr. Amrit Pal Singh Rana (Assistant Professor)	02	01
(e)	Dr. Harshitha Rani HM (Assistant Professor)	-	03



A VIEW OF THE CME ON BARIOTRIC AND METABOLIC SURGERY HELD ON 10.04.24



DEPARTMENT OF HOSPITAL ADMINISTRATION

Name of the Department	Hospital Administration
Head of the Department	Dr. Moonis Mirza

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr. Moonis Mirza	Associate Professor & Head	01 st Nov, 2019
(b)	Dr. Purshottam K	Assistant Professor	25 th April, 2022

2. Brief Introduction of the department.

(a) The Department of Hospital Administration manages the implementation of health services in the Hospital. Our team actively participates in the hospital's daily operations, policy planning, procurement, manpower planning and recruitment, service expansion, and the initiation of new services. Our commitment to transparency, honesty, and a strong work ethic has built trust among clinicians and patients, fostering collaboration essential for guiding the hospital towards excellence. We are dedicated to maintaining high standards to ensure optimal patient care and uphold a collaborative ethos.

(b) The Department of Hospital Administration offers a two-year MBA in Hospital Administration in collaboration with Maharaja Ranjit Singh Punjab Technical University. Seven students have successfully completed the course and are now working as Hospital Administrators in various hospitals across the country.

(c) We also operate a 24/7 control room near the emergency department, serving as an extension of the medical superintendent's office and functioning around the clock. Besides our administrative duties, we are actively involved in research, keeping us updated with the latest innovations and models of care.

Patient Care

Role of Hospital Administration in Hospital Operations

3. In Charge Outpatient Services.

(a) **Single Window Registration and Billing (SWRB).** 10 OPD registration counters, along with 02 billing counters, are made functional to cater to the increased footfall of patients daily. It was observed that after an OPD consultation with a doctor, the footfall of patients for billing increased, and two billing counters were not enough to cater for the patient load. To smoothen the process, the registration counters were converted into **Single Window Registration and Billing** counters. This has led to a drastic decrease in the waiting time and full utilization of the manpower recruited. SWRB concept should be introduced in all hospitals, thus reducing patients' waiting time.

(b) **Smooth revisit services.** To further enhance the Outpatient services, follow-up (revisits) patients are directly managed in the concerned OPD, thus preventing the patient from standing in registration queues.

(c) **ABDM Ayushman Bharat Digital Mission.** AIIMS Bathinda has been nominated for the Pilot Project of End-to-End ABDM Adoption to promote the digitalisation of Health services.



- (i) **Scan & Share.** To enhance the smooth services and hassle-free inter-organization transfer of medical records, the AIIMS Bathinda has adopted scan and share services in the OPD Registration. This has led to the promotion of the country's Digitalization Mission and reduced waiting time for patients.
- (ii) **ABHA IDs.** All the patients visiting AIIMS for treatment are made to create the ABHA IDs to enhance the smooth services and hassle-free inter-organization transfer of medical records.
- (d) **Online Payment Gateways have been started in AIIMS Bathinda.** The patients are able to use any of the digital payment platforms available as of this date. All the registration counters, including OPD, IPD and Emergency, are equipped with the POS Machine. The patients are actively using the online payment modules, and AIIMS Bathinda is shifting to a cashless payment mode.
- (e) **Control Room Services at AIIMS Bathinda.** The Department of Hospital Administration, AIIMS Bathinda, has established a Public Grievances Control Room that remains functional 24X7 and is manned by Duty Officers. The Control Room acts as an extension of the Medical Superintendent's Office during odd hours. Any patient or staff can directly visit the control room and submit his feedback, grievances, or ideas, which are recorded and submitted to the competent authority. The phone number of the control room is displayed on the AIIMS Bathinda website and is publicly available.
- (f) **Patient Safety and Quality Control.** Patient safety officers for AIIMS Bathinda (Faculty Hospital Administration) are actively involved.
- (i) To frame and implement standard operating procedures and processes at all levels of AIIMS Bathinda.
- (ii) Hospital Quality & Patient Safety Cell was constituted on 10.02.2024. Master Document prepared as per National Patient Safety guidelines with timelines for various activities along with the vision and mission statement has been created and acted upon. Self-assessment in accordance with the Patient Safety Assessment Tool developed (SAQUSHAL) by the Ministry of Health and Family Welfare, which evaluates Safe Patient Care, is adopted by AIIMS Bathinda. Culture-building activities have been planned, including patient safety culture surveys, training programmes and awareness campaigns.
- (iii) Patient Feedback is recorded as mandatory for each patient, and regular review meetings are held to discuss feedback and plan subsequent actions.
- (iv) Training Programs have been conducted for Lab members through QCI.
- (g) **Grievance Redressal Cell.** It is managed by the Department of Hospital Administration along with the Medical Social Workers.
- (h) **Ayushman Bharat scheme (AB-PMJAY).** AIIMS Bathinda has enrolled on the AB-PMJAY - Government insurance scheme at AIIMS Bathinda. We successfully implemented the scheme on a round-the-clock basis, and as of date, we have managed cashless treatment to over 24,000 patients in the last three years.



- (j) **Central Government Health Scheme (CGHS)**. AIIMS Bathinda is providing cashless treatment to the g. Central Government Health Scheme pension beneficiaries. MOU has been signed with the regional office of CGHS Chandigarh.
- (k) **Ex-Servicemen Contributory Health Scheme (ECHS)**. AIIMS Bathinda has signed an MOU with the ECHS regional centre Hisar to provide cashless treatment to the Ex-Servicemen under the Ex-Servicemen Contributory Health Scheme.
- (l) **FARISHTEY Scheme**. Cashless treatment of victims if AIIMS Bathinda adopts roadside accident.
- (m) Hospital Bed reallocation: It was observed that the disease profile of the catchment area differed from that of the on-ground bed allocation to various departments. As team leaders in planning the reallocation, we were able to orchestrate a smooth bed reallocation among clinical and super-speciality departments. Multiple brainstorming sessions with heads of the clinical departments to convince them and make them understand the need for large-scale bed reallocation. After large-scale bed reallocation, we were able to increase 20% in bed occupancy from 54% to 84%.
- (n) Coordination between District Administration and Hospital Administration.
4. **Additional Charges to the Department of Hospital Administration.**
- (a) Deputy Medical Superintendent, for OPD and IPD services.
- (b) Nodal Officer, Ayushman Bharat Scheme.
- (c) Faculty, Officer In-charge Out Patient Services.
- (d) Faculty, Officer In-charge Medical Records section.
- (e) Faculty, Officer In-charge Manifold services.
- (f) Faculty, Officer in charge of Hospital Registration and Billing Counters.
- (g) Faculty, Officer In-charge Employee Health Scheme (EHS).
- (h) Faculty, Officer In-charge Central Government Health Scheme (CGHS).
- (j) Faculty, Officer In-charge Stationary Store.
- (k) Faculty, Officer in charge of Housekeeping and Biomedical Waste management.
- (l) Nodal Officer Patient safety.
- (m) Nodal officer for Quality Control.
- (n) NABL and NABH coordinator for AIIMS Bathinda.
5. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

<u>Sr.</u>	<u>Name & designation of faculty</u>	<u>Title/Topic</u>	<u>Details of the Event</u>	<u>Organized by</u>
<u>International Conferences.</u>				
(a)	Dr Moonis Mirza	"Indian Model of Integrated Healthcare (IMIHC): A Conceptual Framework to design a Coordinated Referral System in resource-constrained settings	3rd Asia Pacific Conference on Integrated Care will be held at the Wesley Centre, Sydney, AUSTRALIA	International Foundation of Integrated care



National Conferences.				
(b)	Dr. Purshottam K	CME – Role of Hospital Administration in Combating Antimicrobial Resistance	World Antimicrobial Resistance Week, AIIMS Bathinda Nov, 2023	AIIMS Bathinda
(c)	Dr. Moonis Mirza	Scientific Research Poster Presentation	Safe and Sustainable Hospitals (SASH, 2023)	Safe and Sustainable Hospitals (SASH, 2023)

6. **Faculty achievements - awards, honours etc.**

Sr.	Name & designation of faculty	Award/ honour	Event	Organised by
(a)	Dr. Moonis Mirza	Second prize	in the scientific Research Poster competition in Safe and Sustainable Hospitals (SASH, 2023)	Safe and Sustainable Hospitals (SASH, 2023)

7. **Papers and Books/chapters published by the faculty.**

Sr.	Title	Year
Dr. Moonis Mirza, Associate Professor Publication.		
(a)	Indian Model of Integrated Healthcare (IMIHC): a conceptual framework for a coordinated referral system in resource-constrained settings Moonis Mirza, M Verma, A Aggarwal, S Satpathy, SS Sahoo, R Kakkar BMC Health Services Research 24 (1), 42	2023
(b)	India’s Multi-Sectoral Response to Oxygen Surge Demand during COVID-19 Pandemic: A Scoping Review M Mirza, M Verma, SS Sahoo, S Roy, R Kakkar, DK Singh Indian Journal of Community Medicine 48 (1), 31-40	2023
(c)	Global fertility in 204 countries and territories, 1950–2021, with forecasts to 2100: a comprehensive demographic analysis for the Global Burden of Disease Study 2021 Q1+ GBD Collaborator NV Bhattacharjee, AE Schumacher, A Aali, YH Abate, R Abbasgholizadeh, The Lancet 403 (10440), 2057-2099	2024
(d)	Global, regional, and national burden of spinal cord injury, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019 GBD Collaborator M Safdarian, E Trinkka, V Rahimi-Movaghar, A Thomschewski, A Aali, ... The Lancet Neurology 22 (11), 1026-1047	2023
(e)	Global burden of cardiovascular diseases and risks, 1990-2022 GBD Collaborator GA Mensah, V Fuster, CJL Murray, GA Roth, ... Journal of the American College of Cardiology 82 (25), 2350-2473	2023
(f)	Factors associated with unexplained sudden deaths among adults aged 18-45 years in India–A multicentric matched case–control study GBD Collaborator M Ponnaiah, T Bhatnagar, RS Abdulkader, R Elumalai, J Surya, ... Indian journal of medical research 158 (4), 351-362	2023
(g)	Prevalence, years lived with disability, and trends in anaemia burden by severity and cause, 1990–2021: findings from the Global Burden of Disease Study 2021Q1 GBD 2021 Anaemia Collaborators The Lancet Haematology 10 (9), e713-e734	2023
(h)	Prevalence, years lived with disability, and trends in anaemia burden by severity and cause, 1990–2021: findings from the Global Burden of Disease Study 2021 GBD 2021 Anaemia Collaborators The Lancet Haematology 10 (9), e713-e734	2023



(j)	Comparison of hand hygiene compliance among healthcare workers in Intensive care units and wards of COVID-19: A large scale multicentric study in India	2023
	Collaborator Group S Dhandapani, D Rajshekar, K Priyadarshi, S Krishnamoorthi, ... American Journal of Infection Control 51 (3), 304-312	
(k)	Impact of conducting hand hygiene audit in COVID-19 care locations of India—A large-scale national multicentric study—HHAC study	2023
	Collaborator Group Indian Journal of Medical Microbiology 43, 39-48	
(l)	Global investments in pandemic preparedness and COVID-19: development assistance and domestic spending on health between 1990 and 2026	2023
	GBD Collaborator The Lancet Global Health 11 (3), e385-e413	
Dr. Moonis Mirza, Associate Professor Chapters		
(a)	A Guide to Hospital Administration and Planning	2023
	D Bhatia, PK Chaudhari, B Chaudhary, S Sharma, K Dhingra Springer Nature	
(b)	Barrier-Free Healthcare Design for Patients with Disabilities	2023
	M Mirza, T Goyal, L Goyal A Guide to Hospital Administration and Planning, 251-266	

8. **Dr. Moonis Mirza, Associate Professor Citation.**

- (a) Citations - 616.
- (b) h-index - 9.
- (c) i10-index - 9.

<u>Dr. Purshottam K, Assistant Professor.</u>		
(a)	The music playing intervention in a tertiary care institution in India: Health care workers experiences, International Journal of Social Psychiatry	2023
	Gurvinder Pal, Purshottam Hoovayya et al Volume 70, Issue 1, February 2024, Pages 231-232	

9. **Other important Highlights of the department.** Swachhata Hi Seva 2023 - Cleanliness Drive AIIMS Bathinda.

(a) **Details.**

- (i) Site: Lal Singh Basti, Bathinda.
- (ii) Details of Site: Lal Singh Basti, Bathinda, around 100 square yards. Number of participants/ volunteers/ shramsevaks: 232 members.
- (iii) Involvement of the Director, faculty, staff, and students of AIIMS Bathinda along with the municipal councilor and the local population of Lal Singh Basti, Bathinda.

10. **Output.**

- (a) Cleanliness of Ward No 21, area near Railway gate, Hari Nagar, Lal Singh Basti.
- (b) Awareness program about the importance of cleanliness through nukkad natak and awareness rally.
- (c) Plantation near railway gate and urban health training centre, Lal Singh Basti.
- (d) Awareness talk about Menstrual cup usage and distribution of menstrual cups among community health workers.



A VIEW OF THE CLEANLINESS DRIVE PROGRAMME



A VIEW OF THE AWARENESS

11. **Summary.** As a Professional Hospital Administrator, I have led key positions as Head Department of Hospital Administration and Deputy Medical Superintendent (DMS), actively contributing to the hospital's day-to-day operations, policy planning, procurement, manpower planning and recruitment, expanding of services, starting new services and all related works. In addition to my administrative responsibilities, I have a keen interest in research, which keeps me updated with the latest innovations and models of care. My values of transparency, honesty, and work ethic have succeeded in building trust among clinicians and patients to foster collaboration, which is crucial for steering the hospital to excellence. Committed to maintaining high standards, I aim to ensure optimal patient care and uphold the collaborative ethos.

Sr.	Name of the Post held	Date of Joining	Date of Leaving	Duration	Name of the Organization
Career History.					
(a)	Associate Professor and Head, Department of Hospital Administration (current position)	1 st July 2023	To Date		All India Institute of Medical Sciences (AIIMS)*, Bathinda - INDIA (750 Bedded Hospital)
(b)	Assistant Professor	1 st Nov 2019	30 th June 2023	>Four years	All India Institute of Medical Sciences (AIIMS)*, Bathinda - INDIA (750 Bedded Hospital)
(c)	Deputy Medical Superintendent	April 2019	Oct 2019	>Six months	Jaipur Golden Hospital, Rohini Delhi (300 bedded, Private Hospital)
(d)	Project Coordinator	Aug 2018	March 2019	Eight months	New OPD Block, All India Institute of Medical Sciences (AIIMS), New Delhi – INDIA (2200 Bedded Hospital)
(e)	Senior Resident	Aug 2015	July 2018	Three years	All India Institute of Medical Sciences, New Delhi (2200 Bedded Hospital)
(f)	Senior Resident	June 2015	July 2015		Sheri- Kashmir Institute of Medical Sciences (SKIMS) (750 Bedded Hospital)



Education Qualification.					
(a)	Doctor of Medicine (MD) (Hospital Administration)	May 2012	May 2015	Three Years	Sheri- Kashmir Institute of Medical Sciences (SKIMS) Deemed University
(b)	Bachelor of Medicine, Bachelor of Surgery (MBBS)	2003	2005	Five Years	University of Jammu, INDIA

Note: AIIMS Bathinda is among the 22 AIIMS established by the Government of India as the apex healthcare organization of National importance. AIIMS, Bathinda started delivering patient care services in December 2019.

Work Experience

12. **My administrative role in Hospital Operations at AIIMS Bathinda.**

(a) **Officer In charge of Outpatient Services.** As an administrative in charge and team leader, I was responsible for starting outpatient service. We established a core team to plan and prioritise services to be started first. We trained the staff and coordinated with vendors for the timely delivery of equipment. Our team was able to achieve the target and started outpatient services in two months. We have delivered services to more than 1,500,000 patients in the last three years, ensuring and scaling up services to meet the increased patient load.

(b) **Role in COVID Pandemic.** The COVID pandemic started when the Inpatient building of AIIMS Bathinda was still under construction. As a team leader, we were able to create a 75-bed makeshift Level 2 and Level 3 facility in the existing outpatient department to meet the influx of COVID-19 patients. With our prompt administrative support, our clinicians were able to treat more than 300 seriously ill COVID patients and became the second-largest facility in the state to operate mucormycosis cases.

(c) **Starting the inpatient and emergency services.** As a team member, I was actively involved in starting the inpatient and emergency services at AIIMS Bathinda. My job as an administrator includes planning, staffing, decision-making, procurement, and recruitment. It extends to any work required to ensure the work is executed per the plan. Our team was able to start a 750-bed state-of-the-art superspecialist facility hospital successfully.

(d) **Additional charge of Deputy Medical Superintendent.** Additional charge of Deputy Medical Superintendent for AIIMS Bathinda, in which my responsibility is overall in charge of Hospital Operations, strategic planning, increasing revenue with sustainable growth, inspiring & effective leadership with vision and making decisions on short-term and long-term basis.

(e) **Patient Safety and Quality Control.** To frame and implement Standard Operating Procedures at all levels and manage grievance redressal cell by supervising the Medical Social Workers.

(f) **Nodal Officer Ayushman Bharat scheme (AB-PMJAY).** I was designated the Nodal Officer for enrolling in the AB-PMJAY - Government insurance scheme at AIIMS Bathinda. As a team leader, I was involved in selecting and training the staff, establishing liaison between state and central agencies, and planning, executing, and monitoring its implementation on the ground. We successfully implemented the scheme on a round-the-clock basis, and as of date, we have managed cashless treatment to over 15,000 patients in the last two years.



- (g) **Hospital Bed reallocation.** It was observed that the disease profile of the catchment area differed from that of the on-ground bed allocation to various departments. As team leaders in planning the reallocation, we were able to orchestrate a smooth bed reallocation among clinical and super-speciality departments. I planned multiple brainstorming sessions with heads of the clinical departments to convince them and make them understand the need for large-scale bed reallocation. After large-scale bed reallocation, we were able to increase 20% in bed occupancy from 54% to 84%.
- (h) **Hospital Administration Control Room.** Established a 24/7 hospital administration control room for enhanced administrative support to patients and staff during off hours. The control room acts as an extension of the Medical Superintendent Office and is managed by the MBA (Hospital Administration) Residents. Control Room acts as one point of contact for all day-to-day hospital operations-related issues.
- (j) **Coordination between District Administration and Hospital Administration.** Fostered liaison between the District Administration and Hospital Administration by arranging formal and informal meetings to facilitate the implementation of government schemes for the patients.
- (k) Ensured good vendor relationships through transparency, honesty, and work ethics, thus ensuring continuity of supplies and materials to the hospital.
13. **Additional Charges in AIIMS Bathinda.**
- Deputy Medical Superintendent, since Nov 2019 – To date.
 - Officiating Medical Superintendent, Feb 2022 to Feb 2023.
 - Nodal Officer, Ayushman Bharat Scheme.
 - Faculty, Officer In-charge Out Patient Services.
 - Faculty, Officer In-charge Medical Records section.
 - Faculty, Officer In-charge Manifold services.
 - Faculty, Officer In-charge of Hospital Registration and Billing Counters.
 - Faculty, Officer In-charge Employee Health Scheme (EHS).
 - Faculty, Officer In-charge Central Government Health Scheme (CGHS).
 - Faculty, Officer In-charge Stationary Store.
 - Faculty, Officer In-charge Housekeeping and Biomedical Waste management.
14. **Role during Senior Resident at AIIMS New Delhi.** Senior Resident, Department of Hospital Administration at All India Institute of Medical Sciences (AIIMS), New Delhi - INDIA (2200 Bedded Hospital) (Rank 1st hospital in India for academics, research, and patient care) **Job Duration:** August 2015 – July 2018.
15. **Key Role at AIIMS New Delhi.**
- Core team member in the implementation of the OPD Transformation project by restructuring the entire patient pathway. This resulted in a reduction in patient waiting time from 6 hours to 2 hours.
 - Organizing training program for Nurses and other paramedical staff for fire safety and evacuation plans in Jai Prakash Narayan Apex Trauma Centre AIIMS.
 - Planning, tendering and execution of large-scale renovation of the Central Sterile Supply Department (CSSD) at **AIIMS New Delhi** on a turnkey basis as a brownfield project.



- (d) Project Consultant for Construction of New OPD Block (Ground + 9 floors, multispecialty OPD Block), AIIMS, New Delhi.
- 16. **Role as Deputy Medical Superintendent Jaipur Golden Hospital, Rohini Delhi.**
 - (a) Hospital Infection Control Officer.
 - (b) Quality and Patient Safety Officer Head of the Hospital.
- 17. **Additional qualifications, such as Membership in a scientific society.**
 - (a) Life Member of the Academy of Hospital Administration.
 - (b) Life Member of the Kashmir Chapter of the Academy of Hospital Administration.
- 18. **Research and Publications.**
 - (a) Total Number of research papers published in reputed journals: 17.
 - (b) Citations - 458.
 - (c) h-index : 8.
 - (d) i10 Index : 7.

Sr.	Title	Year
(a)	Indian Model of Integrated Healthcare (IMIHC): a conceptual framework for a coordinated referral system in resource-constrained settings	2023
	Moonis Mirza1*† , Madhur Verma2*†, Arun Aggarwal3, Sidhartha Satpathy1, Soumya Swaroop Sahoo2 and Rakesh Kakkar2	
	BMC Health Services Research (accepted)	
(b)	India’s Multi-Sectoral Response to Oxygen Surge Demand during COVID-19 Pandemic: A Scoping Review	2023
	M Mirza, M Verma, SS Sahoo, S Roy, R Kakkar, DK Singh	
	Indian Journal of Community Medicine: Official Publication of Indian ...	
(c)	Outcome of care in an apex tertiary care referral institute of North India—A study of 90,000 patients	2020
	M Mirza, V Siddharth, N Garg, DK Sharma	
	Journal of Family Medicine and Primary Care 9 (8), 4079	
(d)	Global, regional, and national burden of spinal cord injury, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019	2023
	GBD Collaborator	
	The Lancet Neurology 22 (11), 1026-1047	
(e)	Prevalence, years lived with disability, and trends in anaemia burden by severity and cause, 1990–2021: findings from the Global Burden of Disease Study 2021	2023
	GBD 2021 Anaemia Collaborators	
	The Lancet Haematology 10 (9), e713-e734	
(f)	Comparison of hand hygiene compliance among healthcare workers in Intensive care units and wards of COVID-19: A large scale multicentric study in India	2023
(g)	Impact of conducting hand hygiene audit in COVID-19 care locations of India—A large scale national multicentric study—HHAC study	2023
	Collaborator	
	Indian Journal of Medical Microbiology 43, 39-48	
(h)	Global investments in pandemic preparedness and COVID-19: development assistance and domestic spending on health between 1990 and 2026	2023
	GBD Collaborator	
	The Lancet Global Health 11 (3), e385-e413	



(j)	A Guide to Hospital Administration and Planning	2023
	D Bhatia, PK Chaudhari, B Chaudhary, S Sharma, K Dhingra	
	Springer Nature	
(k)	Barrier-Free Healthcare Design for Patients with Disabilities	2023
	M Mirza, T Goyal, L Goyal	
	A Guide to Hospital Administration and Planning, 251-266	

19. **Chapters published.**

	<u>Chapters</u>	<u>Book Title</u>	<u>Author Type</u>	<u>Status</u>	<u>Publishers</u>
(a)	“Administrative Challenges in Managing COVID Care Health Facility”	“Clinics in COVID-19”.	First Author	Published	Century Publications
(b)	“Barrier-free healthcare design for patients with disabilities”	“A Guide to Hospital Administration and Planning”	First Author	Published	Springer Nature

20. **Patient (Intellectual Property of India).**

- (a) “Modular Injection Trolley with Biomedical Waste Management Bins”.
- (i) Serial No. 166110.
(ii) Design No. - 406972-001.
(iii) Date – 08/02/2024.

21. **Paper presented at International Conference.** As principal author of “Indian Model of Integrated Healthcare (IMIH): A Conceptual Framework to design a Coordinated Referral System in resource-constrained settings,” the 3rd Asia Pacific Conference on Integrated Care will be held at the Wesley Centre, Sydney, Australia, November 2023.

22. **Awards.**

- (a) Second prize in the scientific Research Poster competition in Safe and Sustainable Hospitals (SASH, 2023).
(b) Second prize in the Research Poster competition at AAPI Global Healthcare Summit, AIIMS, New Delhi, 2016.
(c) Felicitated by the World Health Organization in South East Asian Region in promulgation of Emergency Nursing in SEAR, 2018.
(d) Received letter of appreciation from the Director of AIIMS New Delhi for executing leadership and teamwork skills in operational affairs in AIIMS Delhi, 2017.

23. **Key Skills.**

- (a) Able to execute a balance between administrative responsibilities and research activities.
(b) Strong Leadership ability emphasising team-building.
(c) Understanding Organizational behaviours and delivering Hospital Operations.
(d) Situational sensitivity.
(e) Good organizing and coordinating capabilities.
(f) Values transparency, honesty, and work ethics.
(g) Patient and staff safety.
(h) Target oriented, meets deadlines.
(j) Framing and implementing Policy and Planning.
(k) Framing and implementing Integrated healthcare models.

**24. References.**

- (a) Prof (Dr) D.K Sharma, Medical Superintendent, AIIMS, New Delhi.
[Email: 123dks@gmail.com , Phone: +91-986 839 7010].
- (b) Dr Nirupam Maddan, Additional Prof., Department of Hospital Administration, AIIMS, New Delhi.
[Email: nirupam6@gmail.com , Phone: +91-986 804 2732, +91 798 241 2305].
- (c) Prof (Dr) Farooq A Jan, Medical Superintendent, Sheri- Kashmir Institute of Medical Sciences (SKIMS).
[Email: janfaro@gmail.com, Phone: +91 9622457636].
- (d) Prof (Dr) D.K. Singh, Executive Director, AIIMS (Bathinda), INDIA.
[Email: director@aiimsbathinda.in , Phone: +91-164 286 7480].



DEPARTMENT OF MICROBIOLOGY

Name of the Department	Microbiology
Head of the Department	Dr Kamla Kant

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr Kamla Kant	Associate Professor	12-12-2019
(b)	Dr Sivanantham K	Associate Professor	08-11-2019
(c)	Dr Jai Ranjan	Assistant Professor	23-07-2022
(d)	Dr Bhawna	Assistant Professor	04-10-2022

2. Brief Introduction of the department.

(a) The Department of Microbiology of AIIMS Bathinda is providing diagnostic facilities for various infectious diseases. The Department was functioning with COVID-19 RT-PCR lab and new facility for bacterial culture and rapid diagnosis of viral markers was started in July, 2022. Since then, the department has grown leaps and bounds and currently all bacteriological culture and sensitivity testing (Blood culture, Urine culture, Stool culture, Pus/Tissue culture, Sterile body fluids culture, Respiratory culture) and special stains for Leprosy and Tuberculosis are being undertaken in our department.

(b) With the Medical college level Viral Research and Diagnostic Laboratory being sanctioned by the Department of Health Research, the Department is striving to get the ground work for the VRDL ready which will provide necessary viral diagnostic facilities to the people of Bathinda and surrounding areas.

(c) In addition, the department undertakes teaching activities for MBBS (100 students) , MD and Nursing courses (60 Students). The department successfully conducted the MBBS Phase-II examination for 2021 Batch students.

3. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
International Conferences.				
(a)	Dr Sivanantham K	“A Case of Rickettsia conorii Infection with Prevalence of Vectors in and around Bathinda, India”	ASIA-PACIFIC RICKETTSIA CONFERENCE (APRC3) held on September 23rd & 24th at Mahabalipuram, Chennai, India.	APRC3, Department of Infectious Diseases, Christian Medical College, Vellore, 632004, India
National Conferences.				
(b)	Dr. Kamla Kant.	Invited as a speaker on EQAS initiation phase and as chairperson in TROPACON 2023 national conference	TROPACON 2023 National Conference on October 2023.	AIIMS Jodhpur.
		Invited for the stakeholders' consultation meeting and workshop for emerging viral infections response and research priorities	workshop for emerging viral infections response and research priorities	NIV Jammu.



(c)	Dr. Bhawna MICROCON-2023	Role of MALDI-TOF mass spectrometry and molecular typing methods in an outbreak investigation of a <i>Pseudomonas stutzeri</i> acute endophthalmitis post phacoemulsification	KGMC Lucknow	IAMM
(d)	Scientific session-WAAW 2023	Interventions for containment of AMR: Diagnostic Stewardship	AIIMS Bathinda	Department of pharmacology, AIIMS Bathinda

4. **Faculty achievements - awards, honours etc.**

(a) Number of Awards Received (only from registered professional organization of national and international repute) *.

(b) Number of Recognition Received (only from registered professional organization of national and international repute)*: 3.

Sr.	Name of faculty	Award/honour	Event	Organised by
(i)	Dr Sivanantham K	Invited as chairperson to chair session	ASPICON 2023	SASPI-AIIMS Jodhpur
		Section Associate Editor (Infection Prevention Stewardship)	Journal - JASPI	SASPI - JASPI
(ii)	Dr. Jai Ranjan	Certified Infection Control Professional (CICP)	CAHOCON 2023, Hyderabad in April, 2023	Consortium of Accredited Healthcare Organisations
		Board certified in Infection Prevention and Control (CIC®)	CBIC, USA	Certification Board of Infection Control and Epidemiology, Inc. (Arlington, VA, USA)
		Guest lecture on "Viral outbreaks in recent years: Potential for pandemics?" and broadcast live on NMCN website	Shaheed Nirmal Mahato Medical College and Hospital, Dhanbad, Jharkhand in October 2023	Shaheed Nirmal Mahato Medical College and Hospital, Dhanbad, Jharkhand

5. **Research activities undertaken in the department.**

Sr.	Name & designation of PI	Title of the project	Source of support Intramural/ extramural	Status (ongoing/ completed)	Budget
Projects Sanctioned.					
(a)	Dr Kamla Kant	Medical College Level VRDL, AIIMS Bathinda	Extramural	Ongoing	Rs. 1,97,10,000/-



(b)	Dr Kamla Kant, Dr. Jai Ranjan, Dr. Bhawna Sharma.	A phase-3, multicentre, randomized, open-label, Assessor-blind study to evaluate the efficacy and safety of mino-lok therapy (MLT) in combination with systemic antibiotics in the treatment of catheter- related or central line associated blood stream infections			
(c)	Dr. Sivanantham K	Causation and prevalence of Coxiella burnetti in human abortion and its genetic relatedness in ticks – a collaborative project	Extramural - DHR-ICMR (Multicentre) ICMR (project ID 2021-10660) ad-hoc Scheme (Zon/60/2022-ECD-II)	(Ongoing)	Rs. 14,09,430/- (For AIIMS, Bathinda) (Fund received for the first year Rs. 4,95,024/-)
(d)	Dr. Sivanantham K	Sentinel Surveillance for Zoonotic Disease under NOHPPCZ	Extramural - NCDC	(Ongoing)	Rs. 18,80,000/-
(e)	Sh. Priyank MBBS Student (Dr. Bhawna) Dr Bhawna Assistant Professor	COVID-19 vaccination and Neurological complications: A Retrospective observational study In-vitro drug susceptibility pattern and clinical outcome of Carbapenem-resistant Acinetobacter baumannii (CRAB) causing Ventilator Associated Pneumonia (VAP) in ICU settings: A prospective observational study	ICMR Intramural		
Projects Submitted.					
(a)	Dr Kamlakant	Surveillance of Multidrug-resistant, extensively drug-resistant, and Pan drug-resistant organisms for healthcare facilities using automated AST system-A large scale national multicentric study	JIPMER	Ongoing	



(b)	Dr Sivanantham K	“Comprehensive evaluation of the factors leading to an incomplete response to therapy in Invasive Aspergillus Rhinosinusitis.”	Investigator-Initiated Research Proposals for Small Extramural Grants - 2024 (IIRPSG-2024-01-06368)	Submitted	Rs. 8205100.8
(c)	Dr. Jai Ranjan (as collaborator)	Molecular epidemiology, virulence and anti-fungal profiles of non- <i>Candida albicans</i> species namely <i>Candida tropicalis</i> and <i>Candida glabrata</i> (<i>Nakaseomyces glabratus</i>) causing invasive and non-invasive candidiasis- A multicenter study, as a collaborative proposal with Christian Medical College, Vellore	ICMR- Extramural	NA	NA
(d)	Dr Bhawna Assistant Professor	Strengthening laboratory capacities for anaerobic infections and antimicrobial resistance detection in tertiary care hospitals from North India.	ICMR	Submitted	
(e)	Ms Gurleen	Assessment of Knowledge and Awareness on Antibiotic Use and Antimicrobial Resistance among Different Population Groups of North India: A Survey-based Cross-Sectional Study	ICMR		

6. **Papers and Books/chapters published by the department.**

(a) Kumar A, Asghar A, Singh HN, Faiq MA, Kumar S, Narayan RK, Kumar G, Dwivedi P, Sahni C, Jha RK, Kulandhasamy M, Prasoon P, Sesham K, **Kant K**, Pandey SN. SARS-CoV-2 Omicron Variant Genomic Sequences and Their Epidemiological Correlates Regarding the End of the Pandemic: In Silico Analysis. JMIR Bioinform Biotechnol. 2023 Jan 10;4:e42700. doi: 10.2196/42700. PMID: 36688013; PMCID: PMC9843602.

(b) **Krishnamoorthi S**, Goel S, Kaur J, Bisht K, Biswal M. A Review of Rickettsial Diseases Other Than Scrub Typhus in India. Trop Med Infect Dis. 2023;8(5):280. Published 2023 May 16. doi:10.3390/tropicalmed8050280.



- (c) Mewara, A., Khunger, S., Sharma, C., **Krishnamoorthi, S.**, Singh, S., Yadav, R., Khurana, S., & Sehgal, R. (2023). A rapid multiplex loop-mediated isothermal amplification (mLAMP) assay for detection of *Entamoeba histolytica* and *Giardia duodenalis*. *Letters in applied microbiology*, 76(10), ovad114. <https://doi.org/10.1093/lambio/ovad114>
- (d) **Ranjan J**, Ahmad A, Subudhi M, Kumar A. Assessment of Artificial Intelligence Platforms With Regard to Medical Microbiology Knowledge: An Analysis of ChatGPT and Gemini. *Cureus*. 2024;16(5):e60675. PMID: 38770053.
- (e) **Ranjan J**, Wander A, Kaur N, Sharma B, Kant K, Aggarwal A. Atypical Presentation Resembling Acute Leukoencephalopathy With Restricted Diffusion in *Staphylococcus aureus* Meningoencephalitis. *Cureus*. 16(3):e55517. PMID: 38449914.
- (f) **Sharma B**, Sreenivasan P, Singh A, Mondal PS, Ray P, Angrup A. Otogenic Cerebellar Abscess with Polymicrobial Anaerobic Infection in a Young Female- A Rare Presentation. *Indian J Otolaryngol Head Neck Surg*. 2024;76(1):1195-1198.
- (g) Angrup A, **Sharma B**, Joshi H, et al. Role of MALDI-TOF mass spectrometry and molecular typing methods in an outbreak investigation of *Pseudomonas stutzeri* acute endophthalmitis post-phacoemulsification. *J Hosp Infect*. 2024;144:146-149.
- (h) Ranjan J, Wander A, Kaur N, **Sharma B**, Kant K, Aggarwal A. Atypical Presentation Resembling Acute Leukoencephalopathy With Restricted Diffusion in *Staphylococcus aureus* Meningoencephalitis. *Cureus*. 2024;16(3):e55517.
- (j) Lakhanpal V, Peer S, Singh R, **Sharma B**. Mitochondrial membrane protein-associated neurodegeneration presenting with pure motor neuropathy: A rare case report and review of the literature. *Annals of Movement Disorders*.2024:10.4103.
- (k) **Sharma B**, Mohan B, Sharma R, Lakhanpal V, Shankar P, Singh SK, Taneja N. Evaluation of an automated rapid urine culture method for urinary tract infection: Comparison with gold standard conventional culture method. *Indian J Med Microbiol*. 2023; 42:19-24.
- (l) **Sharma B**, Lakhanpal V, Goyal A, Shree R, Raj S, Sreenivasan P, Biswal M, Ray P, Angrup A. Extensive Multifocal Emphysematous Osteomyelitis of Spine: A Rare Case and a Review of Literature. *Infect Disord Drug Target*.2023; 23(1):e140622205976.
- (m) **Sharma B**, Modgil V, Mahindroo J, Kumar A, Kaur V, Narayan C, Verma R, Mohan B, Taneja N. Are Non-lactose fermenting *Escherichia coli* important diarrhoeal pathogens in children and adults?.(2023)Access Microbiology.
- (n) **Sharma B**, Sreenivasan P, Angrup A, Kaur S, Rana S, Kundu J, Biswal M, Ray P. In-vitro susceptibility testing methods for ceftazidime-avibactam against carbapenem-resistant Enterobacterales: Comparison with reference broth microdilution method. *Current Drug Safety*. 2023;18(4):563-70.
- (o) Lakhanpal V, Peer S, **Sharma B**. Oro-facial-digital syndrome type 1 and neuronal migration disorders. *BMJ Case Rep*. 2024 Jun 5;17(6):e260264.
- (p) Lakhanpal V, Ray S, Chakravarty K, **Sharma B**, et al. Establishing continuum in Transcranial Doppler characteristics of IIH, migraine and healthy controls- An exploratory study. *Clin Neurol Neurosurg*. 2024;240:108240.
7. The department needs to provide the following numbers for **individual faculty**:-
- (a) **Dr. Kamla Kant.**
- (i) Research papers: 25.
- (ii) Book/Book chapter:1.
- (iii) i10 Index*:11.
- (iv) H index*: 512.

(b) **Dr. Sivanantham K.**

- (i) Research papers: 2.
- (ii) Book/Book chapter:1.
- (iii) i10 Index*:4.
- (iv) H index*: 6.

(c) **Dr. Jai Ranjan.**

- (i) Research papers: 15.
- (ii) Book/Book chapter:1.
- (iii) i10 Index*:5.
- (iv) H index*: 5.
- (v) Citations: 133.

(d) **Dr. Bhawna Sharma.**

- (i) Research papers: 10.
- (ii) Book/Book chapter:1.
- (iii) i10 Index*:4.
- (iv) H index*:6.

*According to the Google Scholar database

8. **Other important Highlights of the department.**(a) **Infection Prevention and Control, Microbiology.**

- (i) Training towards various HCW groups (SA, NOs) – 13 sessions.
- (ii) Training towards wards (Neurology, Oncology) – 2 sessions.
- (iii) Training towards academic students (MBBS, Nursing) – 6 sessions.
- (iv) Hand Hygiene Week celebration – 1 week (May 1 to 5).
- (v) WAAW week – Hand hygiene training – 1 session.
- (vi) Environmental sampling (ICUs / OTs) – 10 times.
- (vii) HCW screening for MDRO carriage in Hands (ICUs /OTs) – 5 times.

(b) **Number of Workshop Organized***.

(a) The Department of Microbiology organized a workshop, "Immunological Tools and Techniques to Detect the Innate Immune Responses," between 5-11 Dec 2023 in collaboration with the Dept. of Microbiology & Zoology CU Punjab.

(b) The Department of Community & Family Medicine and Microbiology successfully hosted a national workshop on surveillance of the environment for health with support from Block Chain for Health and Swasti. The event successfully deliberated on different components of environmental surveillance with exciting input from 13 other AIIMS, PGIMER Chandigarh, JIPMER, and the Indian Meteorological Department today in Chandigarh.

9. **Number of Thesis Supervised MD/MS***.

(a) **Dr Kamla Kant & Dr Sivanantham K.** Comparison of treatment outcome in Pneumonia Patients Diagnosed with Multiplex PCR Panel vs. Routine Culture -A Comparative Trial by Dr. Akashdeep Bhatia, Department of Microbiology (2023-2026).



- (b) **Dr Sivanantham K.**
- (i) Outcome of single dose prophylactic antibiotic on surgical site infection in elective laparoscopic cholecystectomy with accidental bile spillage – a prospective observational study by Dr Ujjwal Bansal, Department of General Surgery (2021-24).
- (ii) Treatment outcomes of the extent of surgical debridement and voriconazole therapy in immunocompetent patients with sinonasal invasive aspergillosis: A Prospective Observational Pilot study by Dr. Anurag Kajrati, Department of ENT (2023-26).
- (iii) Impact of HbA1c Levels on the Progression and Outcomes of Mucormycosis in Diabetic Patients: Ambispective Cohort Study by Dr. Ayushi Sharma, Department of ENT (2023-26).
10. **Any other achievements in number***
- (a) **Dr Kamla Kant** and **Dr Sivanantham K** were involved and acknowledged in investigating the surge in mucormycosis cases in Bathinda by NCDC, India. The project report – Epidemiological Investigation Report on Mucormycosis Cases in Punjab (January – November 2023) by NCDC.
- (b) **Dr. Jai Ranjan.**
- (a) “Certified Professional in Healthcare Quality Management (CPHQM)” by Shankar Netralaya Academy and Consortium of Accredited Healthcare Organisations.
- (b) Selected for the Antimicrobial Stewardship Course of the Infectious Diseases Society of America and Clinical Infectious Diseases Society.



MICROBIOLOGY/01: DEPARTMENT OF MICROBIOLOGY ORGANISED A WORKSHOP, “IMMUNOLOGICAL TOOLS AND TECHNIQUES TO DETECT THE INNATE IMMUNE RESPONSES” BETWEEN 5-11 DEC 2023 IN COLLABORATION WITH THE DEPT. OF MICROBIOLOGY & ZOOLOGY CU PUNJAB



MICROBIOLOGY/02: INDUCTION TRAINING FOR MBBS BATCH 2023 AT AUDITORIUM (BMW MANAGEMENT, PPE, HAND HYGIENE)



MICROBIOLOGY/03: WORLD HAND HYGIENE WEEK : SENSITIZATION WAS DONE IN OPD AND IPD TO HCWS & PATIENT ATTENDANTS



MICROBIOLOGY/04: SA TRAINING SESSION ON BMW MANAGEMENT, CLEANING AND SANITATION, HAND HYGIENE, SPILL MANAGEMENT WAS TAKEN



MICROBIOLOGY/06: DEPARTMENT OF COMMUNITY & FAMILY MEDICINE AND MICROBIOLOGY SUCCESSFULLY HOSTED A NATIONAL WORKSHOP ON SURVEILLANCE OF THE ENVIRONMENT FOR HEALTH WITH SUPPORT FROM BLOCK CHAIN FOR HEALTH, AND SWASTI. THE EVENT SUCCESSFULLY DELIBERATED UPON DIFFERENT COMPONENTS OF ENVIRONMENTAL SURVEILLANCE WITH EXCITING INPUTS FROM 13 OTHER AIIMS, PGIMER CHANDIGARH, JIPMER, AND THE INDIAN METEOROLOGICAL DEPARTMENT TODAY IN CHANDIGARH



DEPARTMENT OF NEPHROLOGY

Name of the Department	Nephrology
Head of the Department	Dr Saurabh Nayak

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr Saurabh Nayak	Associate Professor	03/11/2023
(b)	Dr Nabadwip Pathak	Assistant Professor	20/01/2024

2. **Brief Introduction of the department.** We have started Haemodialysis services since 8th of October 2022. So far more than 2000 Haemodialysis sessions have been undertaken. Continuous renal replacement therapy (CRRT) is also functional in the unit and so far 12 patients have undergone successful CRRT in critically ill state in various ICUs. We are also providing bedside Slow Low Efficiency Dialysis in all the four ICUs AIIMS, Bathinda have. Plasmapheresis is being conducted in Dialysis unit for Guillain Barre Syndrome, CIDP, AMSAN, Myasthenia gravis, and severe acute hepatitis. SO far more than 200 sessions of Plasmapheresis sessions have been conducted successfully. Our Interventional Nephrology program is on full swing. We have conducted Hands-on Workshop of CAPD catheter insertion where in DM students from various neighbouring medical colleges have participated. We also provide Dialysis access creation to CKD end stage patients viz. Tunnelled cuffed catheter placement, CAPD catheter placement, AVF creation, Femoral Catheter placement and Access correction surgeries. We have performed 350 Kidney Biopsies since the initiation of nephrology services (Sept 2021). We have provided technical inputs to initiate Pradhan mantri National Dialysis Programme-CAPD to DMRE, State of Punjab.

3. Research activities undertaken in the department.

(a) Number of **Project Sanctioned** with the name of Funding Agency: **1 (GIGH, Australia).**

(b) Project Sanctioned with amount (Pl. mention the amount only): **up to 25 Lacs** Number of **Project Submitted** with the name of Funding Agency: **1 (PGIMER, & Welcome Trust UK)**

Number of Project undergoing with the name of Funding Agency: **up to 5 Lacs.**

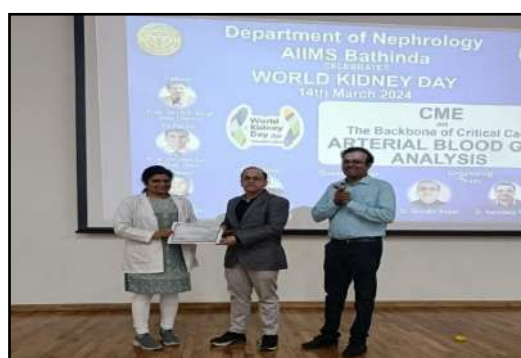
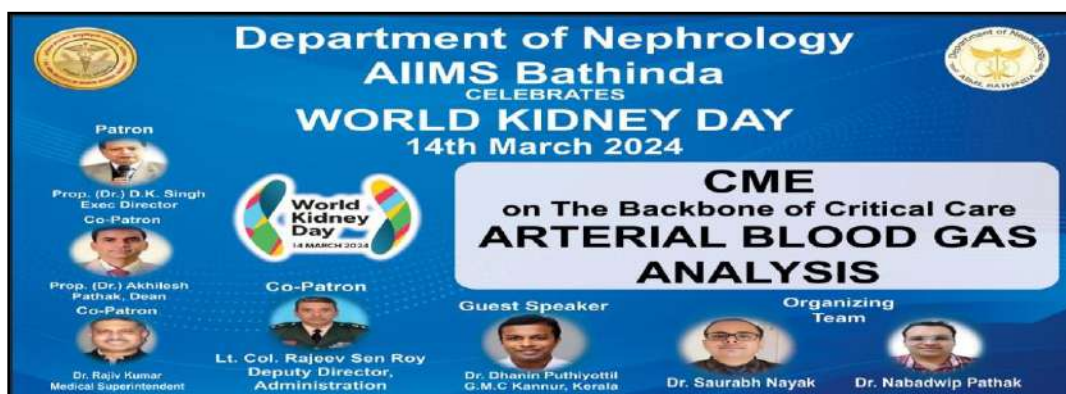
Sr.	Name & designation of PI	Title of the project	Source of support Intramural/extramural etc	Status (ongoing/completed)	Budget
<u>Projects Sanctioned.</u>					
(i)	Saurabh Nayak	TRACK study	Extramural (George Institute of Global health, Australia)	Ongoing	25 Lacs
<u>Projects Submitted.</u>					
(i)	Saurabh Nayak	AVOID Study	Extramural (PGIMER, & Welcome Trust UK)	Ongoing	5 Lacs
(ii)	Saurabh Nayak	Minolock Study	Extramural ()	Ongoing	16 Lacs
(iii)	Saurabh Nayak	DESi Study	Extramural (Zydus)	Ongoing	20 lacs

4. **Papers and Books/chapters published by the faculty.** Detail of Paper published with indexing database*3 (Dr Saurabh Nayak).

- (a) *Clinical Characteristics and Outcomes of NELL1-Associated Membranous Nephropathy.* January 2024 *Kidney International Reports* 9(1); DOI: 10.1016/j.ekir.2024.02.1405.
- (b) *Intermittent Online Postdilution Hemodiafiltration versus High-Flux Hemodialysis in Non-critical Acute Kidney Injury: A Pilot Randomized Controlled Trial.* November 2023 *Saudi Journal of Kidney Diseases and Transplantation* 33(5):674-687; DOI: 10.4103/1319-2442.389427.
- (c) *Clinico-Epidemiological Profile of Patients with Chronic Kidney Diseases of Unknown Etiology: A Hospital-Based, Cross-Sectional Study from Central India.* October 2023 *Indian Journal of Nephrology* 34(7 Suppl 1); DOI: 10.4103/ijn.ijn_68_23.

5. **Other important Highlights of the department.**

- (a) Number of Conferences Organized*: 1.
- (b) Number of Workshops Organized*: 1.
- (c) **CME on the Backbone of Critical Care.**
- (d) **Arterial Blood Gas Analysis.** On the occasion of world kidney day a CME was conducted on 14th March 2024 on the topic “the backbone of critical care-arterial blood gas analysis”.





1ST CAPD CATHETER INSERTION WORKSHOP WAS CONDUCT ON 14 MAY 2023





DEPARTMENT OF NEUROLOGY

Name of the Department	Neurology
Head of the Department	Dr. Vikas Lakhanpal

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr. Vikas lakhanpal	Assistant professor	23.09.2022

2. Brief Introduction of the department.

- (a) **Vision.** Transforming neurology through innovation and collaboration.
- (i) **Patient Care.** Provide the highest quality clinical service that is the first choice for patients and referring physicians.
- (ii) **Research.** Be the leading engine of scientific discovery to advance neurological health and attract the world's best investigators.
- (iii) **Education.** Be recognized as the highest quality and innovators in education, attracting and developing the next generation of leaders in neurology.
- (b) We take pride in achieving worldwide renown for these equally valued and interrelated missions. We take pride in conducting ourselves and our business as professionals and with respect for our patients and colleagues, and we value the importance of diversity in our department.

3. Outpatients Services.

- (a) **General OPD.** General Neurology OPD caters to patients suffering from various neurological disorders, including headache, seizures, stroke, movement disorders, demyelinating disorders, and neuromuscular disorders.
- (i) Specialty clinics/ services (diagnostic and/or therapeutic).
- (ii) neurophysiology diagnostic services.
- (b) We have a state-of-the-art facility for electroencephalography (EEG), nerve conduction studies (NCS), and electromyography (EMG). We have a Video EEG machine (Nihon Kohden Neuropack) and one NCS/EMG machine, 8 8-channel machines to record evoked potentials (Natus). The lab is run by experienced technical staff under the supervision of the faculty. Routine and special neurophysiological studies are undertaken in the department. The appointments for EEG/ NCS/ EMG studies are obtained from the Neurology staff.

4. **In-Patients Department.** The department caters to the need of serious patients by admitting them. We also admit patients with diagnostic dilemma.

5. **Procedures (Diagnostic and/or Therapeutic) offered by the Department.** The department offers following special procedures on OPD/IPD basis:-

- (a) Intravenous thrombolysis for acute ischemic stroke presenting in the window period i.e., within 4.5 hours of onset of symptoms.
- (b) Botulinum toxin injection for patients with focal dystonia and spasticity.



- (c) Neurophysiology procedures – Electrophysiology procedures including Nerve conduction studies (NCS), sympathetic skin response (SSR), electromyogram (EMG), electroencephalogram (EEG), Evoked potentials including visual evoked potentials (VEP), brainstem auditory evoked potentials (BAEP), Somatosensory evoked potentials (SSEP). Repetitive nerve stimulation (RNS).
- (d) Nerve and muscle biopsy.
- (e) Diagnostic and therapeutic lumbar puncture.
6. **Expansion planned for the future.**
- (a) Plan to start Deep brain stimulation surgery for Parkinson's disease and other movement disorders.
- (b) Epilepsy monitoring unit (video EEG) and Epilepsy surgery program.
- (c) Transcranial Doppler studies, setting up of Neuro-sonology lab.
7. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
<u>International Conferences.</u>				
(a)	International Neurology summit	Transcranial Doppler Study in IHH and Normal Population	At Kochi, Kerala, July 2023	Kerala Association of Neurologists
<u>National Conferences.</u>				
(a)	Neuro-sonology conferences in India	On Transcranial Doppler study	At Chandigarh	Indian academy of neurology
(b)	SERB sponsored karyashala High-End workshop	On the genetics of PD & AD	At Bathinda	Central University of Punjab
(c)	National Symposium Cum Workshop on Critical Care in Obstetrics	Stroke in Pregnancy	At Bathinda	AIIMS Bathinda

8. **Faculty achievements - awards, honours etc.** Number of Recognitions Received (only from the registered professional organization of national and international repute - Recognition from IAN as Dr. Vikas Lakhanpal became a life member of Indian Academy of Neurology.

Sr.	Name of Faculty	Award/honour	Event	Organised by
(a)	Dr. Vikas Lakhanpal	2 nd Prize	International Neurology summit	Kerala Association of Neurologists
(b)	Dr. Vikas Lakhanpal	1 st prize	Neurosonology conferences of India, ACSN	Indian academy of neurology



9. **Research activities undertaken in the department.**

Sr.	Name & designation of PI	Title of the project	Source of support Intramural/ extramural	Status (ongoing/ completed)	Budget
Projects Sanctioned.					
(a)	Dr. Vikas Lakhanpal	Screening of neurochemical, amyloid precursor protein (APP) and mitochondrial Calcium Uniporter (MCU) in Down's Syndrome associated with Alzheimer's disease -A potential therapeutic strategy.	Extramural	Ongoing	-
(b)	Dr. Vikas Lakhanpal	Screening of histone modifications and Mitochondrial DNA copy number variation in Parkinson's disease (PD) from Punjab population	Extramural	Ongoing	-
(c)	Dr. Vikas Lakhanpal	Unraveling platelet functional parameters alterations in idiopathic Parkinson disease patients: A comprehensive Exploration	Extramural	ongoing	-
Projects Submitted.					
(a)	Dr. Vikas Lakhanpal	RNA seq analysis of blood samples of Alzheimer's disease (AD) patients	Extramural	Ongoing	-

10. **Papers and Books/chapters published by the department.** Detail of Paper published with indexing database*:-

- (a) Elangovan A, Kumari N, **Lakhanpal V**, Vellingiri B et al. Does the brain axis have an impact on Parkinson's disease (PD)? Ageing Res Rev. 2023 Dec 21;94:102171.
- (b) Dhoot S, **Lakhanpal V**, (2024) Clinical Spectrum of Ophthalmic Manifestations in Myelin Oligodendrocyte Glycoprotein-Associated Disease (MOGAD): A Comprehensive Case Report, Ocular Immunology and Inflammation.
- (c) **Lakhanpal V**, Ray S, et al., Establishing continuum in Transcranial doppler characteristics of IIH, migraine, and healthy controls- an exploratory study, Clinical NeurologyandNeurosurgery2024https://doi.org/10.1016/j.clineuro.2024.108240.
- (d) Sharma B, **Lakhanpal V**, Taneja N. Evaluation of an automated rapid urine culture method for urinary tract infection: Comparison with gold standard conventional culture method. Indian J Med Microbiol. 2023 Mar-Apr;42:19-24.
- (e) Research papers - Vikas Lakhanpal - 4.
- (f) Book/Book chapter - None.
- (g) i10 Index - 2.
- (h) H index - 3.

11. **Other important Highlights of the department.** Training activity for NIHSS certification of resident doctors and nursing officers conducted by the Department of Neurology.

12. Number of Thesis Supervised MD/MS- At present, Dr. Vikas Lakhanpal is the Co-guide of two Postgraduate students.



DEPARTMENT OF NEURO SURGERY

Name of the Department	Neurosurgery
Head of the Department	Dr. Sarvpreet Singh Grewal

1. **Faculty Details.**

<u>Sr.</u>	<u>Name of faculty</u>	<u>Designation</u>	<u>Date of Joining</u>
(a)	Dr. Sarvpreet Singh Grewal	Professor	16-12-2022
(b)	Dr. Harkaran Singh Sahni	Assistant Professor	16-03-2024

2. **Papers and Books/chapters published by the department.**

(a) **Book Chapter.**

(i) Traumatic pneumocephalus, Surgical Nuances of Head Injury: Thieme publications, Oct. 2023. (<https://www.scribd.com>) (<https://books.goggle.com>).

(ii) Sahni HS. Carotid Cavernous Fistula. 3rd ed Ramamurthy and Tandon’s textbook of Neurosurgery: Jaypee;2024.

3. **Other important Highlights of the department.**

(a) The department successfully conducted a case of awake craniotomy for intracranial Glioma located in close proximity to the motor area. In the near future, we aim to increase such cases for better patient outcomes.

(b) The department intends to start epilepsy surgeries for cases of drug-resistant epilepsy and Deep brain stimulation [DBS] for cases of movement disorders resistant to drugs, such as Parkinsonism, etc.

(c) The department has requested procuring a C arm with DSA and Roadmap function/ allotment working days in the Cath lab for conducting aneurysmal coiling, AVM embolization, and tumor Embolization.

4. **Number of Thesis Supervised MD/MS*.**

(a) **Dr. Sarvpreet Singh Grewal.** Co guide-To Evaluate role of indocyanine green fluorescence endoscopy in skull base surgery: A Prospective Observational Study.

(b) **Dr. Harkaran Singh Sahni.** Co-guide Evaluate role of indocyanine green fluorescence endoscopy in skull base surgery: A Prospective Observational Study.

5. **Any other achievements in number*.**





DEPARTMENT OF NUCLEAR MEDICINE

Name of the Department	Nuclear Medicine
Head of the Department	Dr. Bhavay Sonik

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr. Bhavay Sonik	Associate Professor	23.10.2023

2. Brief Introduction of the department.

(a) **Nuclear Medicine** is a super-specialty branch of Medicine that is based on Imaging physiological/metabolic changes of the various disease processes and thus characterizes them at a much earlier stage as compared to Conventional imaging Modalities such as USG, X-ray, IVP, CT scan, MRI, etc.

(b) The branch deals with the use of unsealed radio-active tracers to provide information about the functions of specific organs at the molecular level (Diagnostic Nuclear Medicine) and the treatment of various diseases (Targeted Radio-nuclide therapy) like Hyperthyroidism and thyroid cancers using Radio-iodine (I-131), Metastatic Neuroendocrine tumors using Lu-177 DOTATATE (Peptide Receptor Radionuclide Therapy - PRRT), metastatic castration-resistant prostatic cancers using Lu-177/Ac-225 PSMA, neural crest tumors like neuroblastoma using I-131 MIBG, HCC with Y-90 microspheres, Targeted Alfa therapies with Ac-225, Metastatic bone pain palliation (P-32, Sm-153 EDTMP etc.), radiation synovectomy etc.

(c) Different sections of the Department include a dedicated Radio-pharmacy lab, post-administration waiting areas, and Isolation & Daycare wards for the administration of RNT. Medical Cyclotron, which produces various isotopes for PET/CT scans, also comes under the purview of the Nuclear Medicine Department.

(d) The Nuclear Medicine Department provides diagnostic services with the use of PET/CT, SPECT/CT, and Thyroid Uptake Probe & Well Counter System machines. The department also runs Special Clinics such as the Thyroid Clinic (for treating patients with Hyperthyroidism, Hypothyroidism, and Carcinoma Thyroid), a Prostate clinic (metastatic castration Resistant Prostatic cancer can get opinions regarding THERNOSTICS (Scanning with Ga-68 PSMA PET-CT/F-18 The PSMA The PET-CT The and the radio-ligand The therapy The) The; The etc.

(e) Department of Nuclear Medicine at AIIMS, Bathinda, started after the joining of 1st Faculty (Dr. Bhavay Sonik, Associate Professor) on 23.10.2023.

3. Infrastructure. The Department is located in the Basement 2 of IPD block. As per the AERB-approved Site Layout Map, space is available for the installation of state-of-the-art PET/CT, SPECT/CT, and Thyroid Uptake Probe Systems, along with the provision for administering Low-Dose Iodine Therapy.

4. Services.

(a) Special clinic (Thyroid Clinic) started in Feb 2024: For patients having thyroid disorders.

(b) Management of Hypothyroidism with Thyroid hormone Replacement Therapy.

(c) Management of Hyperthyroidism - Opinion for Radio-iodine Treatment as an OPD basis for - Graves' disease, Toxic Multi-nodular Goitre, AFTN.

(d) For post thyroidectomy cases of Differentiated thyroid cancers - Opinion for Radio-iodine ablation & treatment.

(e) Management/Follow-up with Thyroid hormone suppression therapy.

(f) PET/CT scans are expected to start soon.

5. Vision.

(a) Start of SPECT/CT scan services in near future.

(b) Expansion of Department to Provide IPD services.



DEPARTMENT OF OBSTETRICS & GYNAECOLOGY

Name of the Department	Obstetrics & Gynaecology
Head of the Department	Dr. Lajya Devi Goyal

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining	Remarks
(a)	Dr. Lajya Devi Goyal	Professor & HOD	09.11.2019	
(b)	Dr. Priyanka Garg	Associate Professor	22.02.2020	
(c)	Dr. Supriti	Assistant Professor	06.11.2019	Resigned 20/11/2023
(d)	Dr. Deepika	Assistant Professor	09.12.2019	Resigned 17/06/2024
(e)	Dr. Balpreet Kaur	Assistant Professor	21.12.2019	
(f)	Dr. Nishu	Assistant Professor	20.11.2023	
(g)	Dr. Neena Singh	Assistant Professor	19.02.2024	

2. **Brief Introduction of the department.** The department has started with full-fledged Gynae OPD, IPD and operative services, 24X7 labour room facility, gynae endoscopic surgeries. The department has started special clinics for PCOS/Cancer, Infertility and high-risk patients. The Department is in lieu of starting Obstetrics ICU and ART Clinic. The department is teaching MBBS batches of 4th semester, 7th semester and 9th semester as per NMC guidelines. The department has started with the Postgraduate course and since then department is actively involved in PG teaching.

3. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

(a) Number of Papers presented in National Conference *270.

Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
<u>National Conferences/ Lectures Delivered.</u>				
(i)	Dr Lajya Devi Goyal	<i>Nuances in endometrial carcinoma – Is molecular diagnosis a must?</i>	Quarterly conference of Obstetrics & Gynaecology Society of Northern India on Updates in Obstetrics & Gynaecology 08 October 2023	Department of Obstetrics & Gynaecology GMCH Chandigarh in association with Chandigarh region menopause Society
(ii)	Dr Lajya Devi Goyal	<i>Near Miss in Obstetrics</i>	National Symposium workshop on Critical care in Obstetrics on 21 st May 2023	AIIMS Bathinda with BOGS and Association of Obstetrics Anaesthesiologists India
(iii)	Dr Lajya Devi Goyal	<i>Female sexual disorders</i>	webinar organized by FOGSI welfare and sexual disorder Committee. 29.07.2023.	FOGSI
(iv)	Dr Lajya Devi Goyal	<i>Urinary incontinence in females</i>	CME on urogenital disorders. 02/08/2023	AIIMS Gorakhpur.
(v)	Dr Lajya Devi Goyal	<i>Pharmacogenomics in cancer patient</i>	CME and workshop on Fertility preservation in cancer patients. 07/10/2023	AIIMS Bathinda



(vi)	Dr Lajya Devi Goyal	<i>Lecture on Obstetrics Emergencies at Nurses midwifery training institute Patiala</i>	Strengthening Midwifery Services in NMTIs, AWP 2022. 01/06/2023	UNFPA.
(vii)	Dr Lajya Devi Goyal	<i>Lecture on ``Role of antishock garments in management of PPH&#39</i>	16/07/2023. Holiday inn New Delhi	JIV Daya International Foundation.
(viii)	Dr Lajya Devi Goyal	<i>Ethics in medical research"</i>	Research methodology workshop 13/09/2023-19/09/23	Research Advisory Committee AIIMS Bathinda.
(ix)	Dr Lajya Devi Goyal	<i>Introduction on tech interventions: uterine balloon and nonpneumatic antishock garments in district Bathinda and Faridkot</i>	State level workshop on tech interventions for maternal mortality reduction 26.09.2023	Chandigarh
(x)	Dr Lajya Devi Goyal	<i>Fertility preservation in Gynecological malignancies</i>	CME and workshop on Fertility preservation in cancer patients 7/10/2023	AIIMS Bathinda.
(xi)	Dr Lajya Devi Goyal	<i>Introduction to cervical cancer</i>	Workshop on cervical cancer awareness. 9/02/2024	Dept. of Obstetrics and Gynecology AIIMS Bathinda.
(xii)	Dr Lajya Devi Goyal	<i>Video presentation on vaginoplasty at SOVSI.</i>	First annual conference of Harobgyn OBGyne dept of PGIMS Rohtak on vaginal surgeries. 3/03/2024	PGIMS Rohtak.
(xiii)	Dr Lajya Devi Goyal	<i>MTP act and amendment, what Gynecologist should know</i>	Reverse penal. 12/03/2024.	happy learning master class webinar series.
(xiv)	Dr Lajya Devi Goyal	<i>Why to publish and how to choose a journal</i>	Workshop on paper writing 16/03/2024	Research Advisory Committee AIIMS Bathinda.
(xv)	Dr Lajya Devi Goyal	<i>Ethics in medical research"</i>	Research methodology workshop on thesis writing. 17/03/2024 to 22/03/2024.	Research Advisory Committee AIIMS Bathinda.
(xvi)	Dr Lajya Devi Goyal	<i>Hands on training on reference writing and Vancouver style.</i>	Research methodology workshop on thesis writing 17/03/2024 to 22/03/2024.	Research Advisory Committee AIIMS Bathinda.



(xvii)	Dr Priyanka	<i>Augmenting cervical cancer screening services through cost-effective screen and treat approach implementation research protocol from the rural area of Punjab</i>	63rd Annual Conference of National Academy of Medical Sciences NAMSCON 23-Convocation	NAMS at M.S. Ramaiah Medical College, Bengaluru
(xviii)	Dr Priyanka	<i>Evidence-based intrapartum practices</i>	RNT Medical College, Udaipur	UNFPA Project 'Strengthening Midwifery Services in National Midwifery Training Institute
(xix)	Dr Priyanka	<i>Drill with skill station on "How to manage a critically ill parturient woman including CPR"</i>	National symposium Cum workshop on Critical Care in obstetrics	AIIMS Bathinda
(xx)	Dr Priyanka	<i>"Gender Sensitisation" in the MBBS Orientation Program at AIIMS Bathinda</i>	MBBS Orientation Program	Academic Cell, AIIMS Bathinda
(xxi)	Dr Balpreet Kaur	<i>Faculty – judge in poster presentation</i>	MTPMBCON on 23/04/2023	BFUHS Faridkot
(xxii)	Dr Balpreet Kaur	<i>Eclampsia Drill</i>	National Symposium workshop on Critical care in Obstetrics on 21 st May 2023	AIIMS Bathinda with BOGS and Association of Obstetrics Anaesthesiologists India
(xxiii)	Dr Balpreet Kaur	<i>Placenta accreta spectrum</i>	BOGS CME on 04/06/2023	Bathinda Obs & Gynae Society
(xxiv)	Dr Balpreet Kaur	<i>Convener</i>	Webinar on contraception and sexual disorders 29/07/2023	FOGSI family welfare committee.
(xxv)	Dr Balpreet Kaur	<i>Faculty Lecture adolescent reproductive health and contraception</i>	Awareness Program for School Children 15/09/2023	St. Joseph's Convent School Dabwali
(xxvi)	Dr Balpreet Kaur	<i>Hands on Training on UBT and NASG</i>	State level Workshop on 26/09/2023	
(xxvii)	Dr. Nishu	<i>Prevention of Cervical Cancer: Screening & HPV vaccination</i>	Workshop on cervical cancer awareness. 9/02/2024	Dept. of Obstetrics and Gynecology AIIMS Bathinda.

4. **Faculty achievements - awards, honours etc.**

(a) Number of Awards Received (only from registered professional organization of national and international repute) * 06.



(b) Number of Recognitions Received (only from registered professional organization of national and international repute) * 04.

Sr.	Name of faculty	Award/honour	Event	Organised by
(i)	Dr. Lajya Devi Goyal	Certificate in Online Good Clinical Practice Program	An overview of GCP Guidelines safety management and reporting guidelines	AIIMS Bathinda, SHOHD Clinical solutions and Head Medical affairs Dr Reddy's Laboratories
(ii)	Dr Lajya Devi Goyal	Chairperson	Female sexual disorders webinar organized by FOGSI welfare and sexual disorder Committee. 29.07.2023.	FOGSI
(iii)	Dr Lajya Devi Goyal	Chairperson	Urinary incontinence in females CME on urogenital disorders. 02/08/2023	AIIMS Gorakhpur.
(iv)	Dr Lajya Devi Goyal	Chairperson	Pharmacogenomic in cancer patient CME and workshop on Fertility preservation in cancer patients. 07/10/2023	AIIMS Bathinda
(v)	Dr Priyanka	"Member of the National Academy of Medical Sciences (MNAMS)	63rd Annual Conference of National Academy of Medical Sciences NAMSCON 23- Convocation	NAMS at M.S. Ramaiah Medical College, Bengaluru

5. **Research activities undertaken in the department.**

(a) Number of **Projects Sanctioned** with the name of Funding Agency with amount* 01.

(b) Number of **Projects Submitted** with the name of Funding Agency* 01.

(c) Number of **Projects undergoing** with the name of Funding Agency* 01.

Sr.	Name & designation of PI	Title of the project	Source of support Intramural/ extramural	Status (ongoing/ completed)	Budget
<u>Projects Sanctioned.</u>					
(i)	Dr Lajya Devi Goyal	<i>Strengthening Midwifery Services in NMTI India.</i>	Extramural	Ongoing	NIL
(ii)	Dr Lajya Devi Goyal	<i>Reduction in Maternal Mortality due to postpartum haemorrhage through a Multicentric holistic approach in ten district of Punjab</i>	Extramural Funded by mission Tandrust Punjab PSCST	Ongoing	88,50,000/-
(iii)	Dr Lajya Devi Goyal	<i>Study to validate smart scope as a screening tool to detect pre-cancerous lesions of cervix- a pilot study.</i>	Extramural	completed and under publication	2,55,000/-



(iv)	Dr Priyanka	“Augmenting cervical cancer screening services through the cost-effective screen and treat approach - implementation research from the rural area of Punjab”	Intramural	Ongoing	Nil
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6. Papers and Books/chapters published by the department.

- (a) Singh GP, **Goyal LD**, Hoovayya P, Udey B, Singh J, Choudhary A. *The music playing intervention in a tertiary care institution in India: Health care workers experiences*. Int J Soc Psychiatry. 2023 Apr 24:207640231169658. doi: 10.1177/00207640231169658. Epub ahead of print. PMID: 37092769.
- (b) Gupta, M., Kankaria, A., Sahoo, S.S. et al. *Comprehensive coordinated community based palliative care (C3PaC) model for cancer patients in North India: a mixed-method implementation research study protocol*. BMC Palliat Care **22**, 61 (2023). <https://doi.org/10.1186/s12904-023-01184-7>.
- (c) **Goyal LD**, **Kaur B**, Bhalla S, Garg P. *Carcinoma vulva: Ten years experience in a teaching institution of North India*. J Family Med Prim Care **2023**;12:654-9.
- (d) Jindal A, Kapatia G, Rana MK, Goyal LD. *Granulomas on cervical Pap smear “Forget me not.”* CytoJournal **2023**;20:24.
- (e) Priya Sharma, Abhilash Kumar Singh, Sabyasachi Senapati, Harmanpreet Singh Kapoor, **Lajya Devi Goyal**, Balpreet Kaur, Pooja Kamra, and Khetarpal P. *Genetic Variants of Steroidogenesis and Gonadotropin Pathways and Polycystic Ovary Syndrome Susceptibility: A Systematic Review and Meta-analysis*. *Metabolic syndrome and related Disorders*. 2023 : 22(2).
- (f) Sharma P, Senapati S, **Goyal LD**, **Kaur B**, Kamra P, Khetarpal P. *Genome-wide association study (Gwas) identified Pcos susceptibility variants and replicates reported risk variants*. Arch Gynecol Obstet. (2024) 309:2009–19.
- (g) Garg, P., **Goyal, L.D.**, Goyal, S. et al. *Utility of opportunistic screening to assess the impact of urinary incontinence on quality of life and barriers to seeking treatment among women attending a tertiary healthcare centre in North India*. BMC Urol **24**, 50 (2024). <https://doi.org/10.1186/s12894-024-01434-7>.
- (h) Sharma P, Kapoor H, **Kaur B**, Kamra P, Khetarpal P. *Investigations of the association of serum trace elements concentrations and serum biochemical parameters with the risk of polycystic ovary syndrome: a case control study*. Biol Trace Elem Res. 2023 Apr 17. <https://doi.org/10.1007/s12011-023-03664-6>.
- (j) GroverS, DhirSK, GargN, **Kaur B**, BadyalD. *Introduction of clinical audit in obstetrics for undergraduate medical students*. Int J Reprod Contracept Obstet Gynecol **2023**;12:1650-4.
- (k) Sharma P, Bhatia K, Kapoor H, **Kaur B**, Khetarpal P. *Genetic variants of metabolism and inflammatory pathways, and PCOS risk –Systematic review, meta-analysis, and in-silico analysis*. Gene **888** (2023);147796.
- (l) **Book chapter – LARC (long-acting reversible contraception) FOGSI FOCUS** – May 2023.

7. Individual faculty wise details.

- (a) **Dr Lajya Devi Goyal.**
- (i) Research papers: 07.
- (ii) Book/Book chapter:
- (iii) i10 Index*: 23.
- (iv) H index*: 15.



- (b) **Dr Priyanka.**
 - (i) Research papers: 3.
 - (ii) Book/Book chapter.
 - (iii) i10 Index*: 8.
 - (iv) H index*: 8.

8. **Other important Highlights of the department.**

- (a) **Training activities are conducted, including surgeries, camps, etc.**
 - (i) Workshop on Writing a proposal for a research grant. AIIMS Bathinda. 22nd -23 April 2023.
 - (ii) National Symposium Cum Workshop In critical care Obstetrics. AIIMS Bathinda 21.05.2023.
 - (iii) CME and workshop on Fertility preservation in cancer. patients. AIIMS Bathinda .7/10/2023.
 - (iv) Workshop on cervical cancer awareness. Organized by Dept. of Obstetrics and Gynaecology AIIMS Bathinda.9/02/2024.
 - (v) Workshop on paper writing. Organized by the Research Advisory Committee AIIMS Bathinda. 16/03/2024.
 - (vi) Research methodology workshop on thesis writing. Organized by the research advisory committee AIIMS Bathinda. 17/03/2024 to 22/03/2024.
 - (vii) State-level workshop on tech interventions for maternal mortality reduction. Chandigarh. 26.09.2023.
- (b) **Number of Conferences Organized* 02.**
- (c) **Number of Workshop Organized* 05.**
- (d) **Camp 01.**

9. **Number of Thesis Supervised MD/MS* 08.**



WORKSHOP ON CERVICAL CANCER AWARENESS OBSTETRICS & GYNAECOLOGY/01



CERVICAL CANCER SCREENING CAMP GONIANA



WORKSHOP ON CERVICAL CANCER AWARENESS



STATE-LEVEL WORKSHOP ON TECH INTERVENTIONS FOR MATERNAL MORTALITY REDUCTION



NATIONAL SYMPOSIUM CUM WORKSHOP IN CRITICAL CARE OBSTETRICS



AWARDED PRESTIGIOUS MEMBERSHIP OF NATIONAL ACADEMY OF MEDICAL SCIENCES



NATIONAL SYMPOSIUM CUM WORKSHOP IN CRITICAL CARE OBSTETRICS



DEPARTMENT OF OPHTHALMOLOGY

Name of the Department	Ophthalmology
Head of the Department	Prof. Dr Anuradha Raj, Professor & Head

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Prof. Dr Anuradha Raj	Professor & HOD	26-11-2021
(b)	Dr Sanjeev Kumar	Associate Professor	14-11-2019
(c)	Dr Vandana	Assistant Professor	18-04-2022
(d)	Dr Sabia Handa	Assistant Professor	16-11-2023

2. **Brief Introduction of the department.** The Department of Ophthalmology is well-equipped with the diagnostic and therapeutic modalities for world-class patient care. We have started specialty clinics as Glaucoma, Cornea, Retina, Squint, Oculoplasty and Retinopathy of prematurity. The footfall of the patients in outpatient and Indoor patient departments has increased tremendously. The department is dedicated to provide the best ocular care to the patients visiting AIIMS. We started operation theatre in June 2022 and till date, we have operated 3064 cases. A variety of ocular surgeries elective and emergency including Phacoemulsification, Small Incision cataract surgery, Trabeculectomy, Lacrimal surgeries, Squint surgery, Oculoplasty surgeries, Orbital surgeries, Ocular surface reconstruction surgeries, traumatic ocular repairs, Retinal detachment surgeries and pars plana vitrectomies etc are being performed. The Eye Bank has been established and the inspection was done in NOV 23 and final inspection for eye bank registration is due in a month or so. The Vision of the Ophthalmology department is to start Eye Banking and corneal transplantations at the earliest after getting its registration. We are bound to provide the best care to patients under one roof.

3. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

4. **Papers and Books/chapters published by the department.** Prof. Dr Anuradha Raj:-

- (a) Research papers - 8.
- (b) Book/Book chapter - 3.
- (c) i10 Index*- 9.
- (d) H index*- 9.
- (e) Citations - 372.

Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
<u>International Conferences.</u>				
(i)	Prof. Dr Anuradha Raj	Msics combined with trabeculectomy	5th Biennial World Conference of IMSICS, CCC 2023, 17-19 Nov 2023	International Manual Small Incision Cataract Surgery Society at LEONIA CONVENTION CENTRE, HYDERABAD
<u>National Conferences.</u>				
(i)	Prof. Dr Anuradha Raj	Tips for therapeutic penetrating keratoplasty	21st OCT 2023	CMC Ludhiana



(ii)	Prof. Dr Anuradha Raj	Morphological analysis of filtering blebs with Anterior Segment Optical Coherence Tomography	Netrakon POS Conference 17-19 Dec 2023	Punjab Ophthalmological Society at Hotel Park Plaza, Ludhiana
(iii)	Prof. Dr Anuradha Raj	Disc edema: An overview	EYECON Conference 22-24 Dec 2023	North Zone Ophthalmological Society, Noor Mahal, Karnal, Haryana
(iv)	Prof. Dr Anuradha Raj	Small incision cataract surgery in white cataract	International MSICS conference, 21st May 2023 Amritsar	International Manual Small Incision Cataract Surgery Society
(v)	Prof. Dr Anuradha Raj	Ocular surface and intraorbital hemangioma with phacomorphic glaucoma: A challenging combination	International MSICS conference, 21st May 2023 Amritsar	International Manual Small Incision Cataract Surgery Society
(vi)	Prof. Dr Anuradha Raj	Bilateral nasal ectopia lentis and depression in Marfan syndrome” at international	International MSICS conference, 21st May 2023 Amritsar	International Manual Small Incision Cataract Surgery Society
(vii)	Prof. Dr Anuradha Raj	Morphological analysis of filtering blebs with Anterior Segment Optical Coherence Tomography: Predictor for success	Midterm conference 2023, 2-3 Sept 2023	Delhi Ophthalmological Society at Hotel Ashok, New Delhi
(viii)	Prof. Dr Anuradha Raj	NA-AION PREDICTION OF A SILENT STROKE	Midterm conference 2023, 2-3 Sept 2023	Delhi Ophthalmological Society at Hotel Ashok, New Delhi
(ix)	Dr Vandana, Asst. Professor	Necrotizing fasciitis of the lids: management protocols	Held at Kochi in May 2023	All India Ophthalmological Society
(x)	Dr Vandana, Asst. Professor	Navigating the lacrimal obstructions: punctum to NLD	Held at Karnal Haryana in December 2023	North Zone Society of Ophthalmology



Sr.	Title of papers/Books/Book Chapters/Edited Books	Indexing database with Impact factor
Prof. Dr Anuradha Raj.		
(i)	Raj A et al. "Bilateral Nasal Ectopia Lentis and Major Depressive Disorder in Marfan Syndrome: A Case Report". EC Ophthalmology 14.12 (2023): 01-05. (IF 1.84)48.	PUBMED. Google Scholar. ICMJE1.84
(ii)	Raj A, Kaur H, Mangla L, et al Coexisting bilateral ciliochoroidal effusion syndrome and an isolated cytotoxic corpus callosum lesion in dengue fever BMJ Case Reports CP 2023;16:e253147.	PUBMED. SCOPUS, EMBASE, DOAJ,2.9
(iii)	Sahu P, Raj A. Pediatric ocular tumors: A overview. International Journal of Ocular Oncology and Oculoplasty 2023;9(4):157–165.	Index Copernicus, Google Scholar, J-gate, 1.34
(iv)	Abdulkader RS. Ponnai,h M, Tarun Bhatnagar T, et al Baseline findings of a multicentric ambispective cohort study (2021-2022) among hospitalised mucormycosis patients in India, Mycology,DOI: 10.1080/21501203.2023.2271928	PUBMED. SCOPUS, DOAJ, CABI8.7
(v)	Raj A, Kaur J. "Artificial Intelligence and Machine Learning in Ophthalmology: Novel Frontiers". EC Ophthalmology 14.11 (2023): 01-04.	PUBMED. oogle Scholar. ICMJE1.84
(vi)	Raj A, Sahu P, Sharma V. Ocular Trauma Induced Malignant Glaucoma: A Case Report EC Ophthalmology 15.3 (2024): 01-05.	PUBMED. Google Scholar. ICMJE 1.84
(vii)	Raj A, Papilloedema: Etiology and its Management. EC Ophthalmology 15.4 (2024): 01-13.	PUBMED. Google Scholar. ICMJE 1.84 Index Copernicus, Google Scholar, J-gate, 1.34
(viii)	Raj A, Raj R. Intraoperative partial thickness compression suturing for descemet’s membrane detachment: A Novel technique. IP Int J Ocul Oncol Oculoplasty 2024;10(1):30-35	
Prof Dr Anuradha Raj.		
(i)	Raj A, Raj R, Jain B. Effect of aging on physiological and pathological ocular conditions in Advance Research Trends in Medical and Clinical Sciences 2023; Volume-2 MKSES Publisher (India). 28-39	
(ii)	Raj R, Raj A, Saini B. Terrorism: Impact on Mental Health and its combating strategies. in Advance Research Trends in Medical and Clinical Sciences 2023; Volume-2 MKSES Publisher (India). 14-27	
(iii)	Raj A, Raj R. Psychiatric morbidities in glaucoma patients: An Insight. Recent Applied Research in Biological & Medical and Life Sciences. 2024 MKSES Publisher	
Prof. Dr Anuradha Raj.		
(i)	Book written Titled: Indications, complications, and management of keratoplasty by Cambridge Scholars Publishing House, United Kingdom (Under process)	
(ii)	Books edited 1. Book Edited as EDITOR: Interdisciplinary Research in Biological and Medical Sciences Volume 2 2024 MKSES Publisher, Lukhnow. UP	


Dr Sanjeev Kumar, Associate Professor, Dept. of Ophthalmology.

- (i)
- **Research papers.**
 - Dhoot SK. Spontaneous expulsive choroidal hemorrhage in an elderly female with microbial keratitis. Eur J Ophthalmol. 2024 Mar;34(2):NP22-NP24. doi: 10.1177/11206721231206716. Epub 2023 Oct 4. PMID: 37792546.
 - Dhoot SK, Lakhanpal V, Peer S, Prakash S. Clinical Spectrum of Ophthalmic Manifestations in Myelin Oligodendrocyte Glycoprotein-Associated Disease (MOGAD): A Comprehensive Case Report. Ocul Immunol Inflamm. 2024 Mar 4:1-7. doi: 10.1080/09273948.2024.2325053. Epub ahead of print. PMID: 38436938.
 - Book/Book chapter----
 - i10 Index* 3
 - H index* 3

Dr Vandana, Assistant Professor dept. of Ophthalmology.

- (i)
- Sharma V, Gupta V, Kaur H, Raj A. Primary tubercular osteomyelitis of lateral orbital wall: a rare presentation. Preprint.
 - Raj A, Sahu P, Sharma V. "Ocular Trauma Induced Malignant Glaucoma: A Case Report". EC Ophthalmology 15.3 (2024): 01-05.
 - i10 Index* 0
 - H index* 1

Dr Sabia Handa, Assistant Professor, dept. of Ophthalmology.

- (i)
- Arora A, Handa S, Singh SR, Sharma A, Bansal R, Agrawal R, Gupta V. Recurrence of tubercular choroiditis following anti-SARS-CoV-2 vaccination. Eur J Ophthalmol. 2023 May;33(3)
 - Handa S, Dogra M, Tigari B, Katoch D, Singh R. Displacement of Submacular Hemorrhage With Vitrectomy Combined With Subretinal Balanced Salt Solution and Air. Retina. 2023 Dec 1;43(12):2194-2198
 - Katoch D, Handa S, Singh SR, Tekchandani U, Singh R, Pandav SS, Kaushik S. Use of the Aurolab Aqueous Drainage Implant as a buckling element in pediatric retinal detachment with a preexisting glaucoma drainage device. Am J Ophthalmol Case Rep. 2023 Dec 3;33:101962
 - Handa S, Amin H, Arora A, Agarwal R, Gupta V. Advances in the diagnosis of ocular tuberculosis. Expert Review of Ophthalmology. 2023 18(8)
 - Angrup A, Sharma B, Joshi H, Vig S, Handa S, Singh SR, Gupta V, Biswal M, Ray P. Role of MALDI-TOF mass spectrometry and molecular typing methods in an outbreak investigation of Pseudomonas stutzeri acute endophthalmitis post-phacoemulsification. J Hosp Infect. 2024 Feb;144:146-149
 - Kumar Menia N, Handa S, Markan A, Thakur U, Agarwal A, Gupta V. Intermediate Uveitis with Cystoid Macular Edema as Presentation of Retained Caterpillar Hair in the Vitreous Cavity. Ocul Immunol Inflamm. 2024 May 7:1-4
 - Lakhanpal V, Ray S, Chakravarty K, Sharma B, Bhatia V, Dogra M, Takkar A, Handa S, Mahesh KV, Khurana D, Lal V. Establishing continuum in Transcranial Doppler characteristics of IIH, migraine and healthy controls- An exploratory study. Clin Neurol Neurosurg. 2024 May;240:108240

Book Chapter

- Singh U, Sharma M, Singh R, Tadepalli S, Handa S. Applications of Molecular Biology and Biomedical Advances in Ocular Oncology. In Molecular Biomarkers for Cancer Diagnosis and Therapy 2024 Jun 30 (pp. 195-217). Singapore: Springer Nature Singapore.
- Research papers- 07
- Book/Book chapter- 01
- i10 Index*- 06
- H index*- 08
- Citations- 309



5. **Faculty achievements - awards, honours, etc.**

(a) **Prof. Dr Anuradha Raj.**

(i) First prize for presentation on “Ocular surface and intraorbital hemangioma with phacomorphic glaucoma: A challenging combination” at International MSICS conference, Amritsar on 21st May, 2023.

(ii) First prize for presentation on “ Bilateral nasal ectopia lentis and depression in Marfan syndrome” at international MSICS conference, Amritsar on 21st May 2023.

(iii) Third prize on NA-AION PREDICTION OF A SILENT STROKE in DOS Midterm conference 2023, Hotel Ashok, New Delhi 2-3 Sept 2023.

6. **Research activities undertaken in the department.**

<u>Sr.</u>	<u>Name & designation of PI</u>	<u>Title of the project</u>	<u>Source of support Intramural/ extramural</u>	<u>Status (ongoing/ completed)</u>	<u>Budget</u>
<u>Projects Sanctioned.</u>					
(a)	Dr Anuradha Raj	Comparative study of the Smart mesopic fundus camera with optical coherence tomography for the functional and structural changes in the glaucomatous disc. - A pilot study 1	Extramural Funding Agency MeitY-nasscom- CoE	Ongoing	500000
(b)	Dr Anuradha Raj	Rashtriya Netra Jyoti Abhiyan	Extramural (Funding Agency NPCB-VI)	Ongoing	100000
(c)	Dr Anuradha Raj	Correlation between clinical and echographic measurements of optic disc cupping in glaucomatous eyes	Intramural	Completed	Nil
(d)	Dr Anuradha Raj	Clinical spectrum and management of bilateral optic disc edema: A retrospective analysis	Intramural	Completed	Nil
(e)	Dr Anuradha Raj	A stage-based approach to the management of rhino-orbital-cerebral Mucor mycosis is used, and its impact on outcome is predicted.	Intramural	Completed	Nil



(f)	Dr Anuradha Raj	Incidence of adverse outcomes and risk factors for mortality among mucormycosis patients in India: A multicentric ambispective cohort study, 2021-2022/	Intramural	Completed	Nil
(g)	Dr Anuradha Raj	Comparative morphometric evaluation of anterior chamber angle by anterior segment optical coherence tomography in primary angle closure glaucoma suspects after dark room prone and mydriatic provocative tests.	Intramural	Ongoing	Nil
(h)	Dr Anuradha Raj	Effect of topical Rho-Kinase inhibitors ripasudil for the treatment of diabetic macular edema.	Intramural	Ongoing	Nil
(j)	Dr Anuradha Raj	Comparative morphological evaluation of under-filtering blebs on antiglaucoma medication or after ocular digital massage by using anterior segment optical coherence tomography	Intramural	Ongoing	Nil
(k)	Dr Sanjeev Kumar	1) Comparison of Effect of Homatropine, Head Elevation and Observation in Fresh Vitreous Haemorrhage using Quantitative Ophthalmic Ultrasonography"-	Intramural	ongoing	Nil
(l)	Dr Vandana Sharma	Efficacy and safety of probing with mitomycin C in adults with primary acquired nasolacrimal duct obstruction	Intramural	ongoing	Nil



7. **Other important Highlights of the department.** Free screening camps were organized at Civil Hospital Badal and UTHC, Lal Singh Basti.

Number of Days organized: 2

(a) **EYE DONATION FORTNIGHT:** 38th National Eye Donation Awareness Fortnight WAS ORGANISED FROM 25 TH AUGUST TO 8 TH SEPTEMBER 2023 at AIIMS, BATHINDA. State level Quiz competition for under-graduate and post graduate students was held with the theme of eye donation in Auditorium, AIIMS, Bathinda.

(b) **WORLD SIGHT DAY:** World Sight Day was celebrated on 12th Oct 2023 at AIIMS Bathinda. Free eye check up camp was conducted at Urban Training Health center, Lal Singh Basti, Bathinda. A Poster making competition was organised for undergraduate students of AIIMS Bathinda.



38TH NATIONAL EYE DONATION AWARENESS FORTNIGHT



A POSTER MAKING COMPETITION WAS ORGANIZED FOR UNDERGRADUATE STUDENTS OF AIIMS BATHINDA



FREE CHECK-UP CAMP ON WORLD SIGHT DAY

8. **Number of Thesis Supervised MD/MS***.

<u>Sr</u>	<u>Candidate</u>	<u>Title of thesis</u>
1	Dr. T. Easther Daziine	To study psychiatric morbidities in glaucoma patients diagnosed in a tertiary care facility in North-Western India

9. **Any other achievements in number***. Got a fund of 100000 from NPCB in June 2023 and operated 100 cataract cases free of cost until June 2024.



DEPARTMENT OF ORTHOPAEDICS

Name of the Department	Orthopaedics
Head of the Department	Dr Tarun Goyal

1. **Faculty Details.**

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr. Tarun Goyal	Professor & Head	06-12-2019
(b)	Dr. Nilesh Barwar	Associate Professor	09-05-2022
(c)	Dr. Pankaj K Sharma	Associate Professor	27-11-2019
(d)	Dr. Ankit Rai	Assistant Professor	30-11-2023
(e)	Dr. Lakshmana Das	Assistant Professor	29-12-2023
(f)	Dr. Santosh Behera	Assistant Professor	05-02-2024
(g)	Dr. Lokendra Singh	Assistant Professor	21-02-2024
(h)	Dr. Mukund Madhav Ojha	Assistant Professor	21-02-2024

2. **Brief Introduction of the department.** The department aims to provide:-

- (a) The highest quality patient care to all people through innovation, latest research and training.
- (b) Competency based training of the next generation of surgical health care professionals and scientists.
- (c) Leadership role in orthopaedic teaching and research at both regional and national level.

3. **Services Available in the department.** The department of orthopaedics treats all the musculoskeletal conditions. It deals with conditions like osteoarthritis, low backache, neck pain, congenital disorders and fractures. Department is providing round the clock trauma care, surgeries in all specialities of orthopaedics and physiotherapy services.

4. The following procedures are being done in the department:-

- (a) Joint replacement surgeries.
- (b) Arthroscopic surgery is of the joints.
- (c) Trauma.
- (d) Tumours.
- (e) Spine surgeries.
- (f) Paediatric orthopaedic surgeries.

5. The department is also running special clinics for sport injuries, paediatric orthopaedics, hand surgeries and spine surgeries.

6. **Academics.**

- (a) Dept runs MS, MCh and fellowship courses.
- (b) Department has organised 7 workshops/ CMEs and has 2 extramural funded projects.



7. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
International Conferences.				
(a)	Dr Tarun Goyal	Radiological Healing of The Rotator Cuff On MRI Does Not Correlate With Functional Outcomes After Arthroscopic Rotator Cuff Repair	ISAKOS. June, 2023	ISAKOS
		Peroneus longus autograft can be considered as a potential autograft option for ACL reconstruction in multi-ligament knee injuries and revision ACL reconstruction without significant donor site morbidity	ISAKOS. June, 2023	ISAKOS
(b)	Pankaj Kumar Sharma	Oral Paper Presentation "A prospective clinico-radiological evaluation of infected gap non-union of long bones managed with Ilizarov bone transport and Masquelet techniques".	43 rd SICOT Annual World Congress, Cairo, Egypt, Nov 2023	SICOT
		Oral Paper Presentation "Correlation between the cross-sectional area (CSA) and bulk of the paraspinal muscles on Magnetic resonance imaging (MRI) and severity or chronicity of symptomatic low backache (CLBA)".	43 rd SICOT Annual World Congress, Cairo, Egypt, Nov 2023	SICOT
		Poster Paper Presentation Clinical and functional outcomes in different modalities for selective nerve root blocks in discogenic low backache patients; a prospective appraisal".	43 rd SICOT Annual World Congress, Cairo, Egypt, Nov 2023	SICOT
(c)	Dr. Lakshmana Das	Oral Paper Presentation "Evaluation of functional outcomes and comparison of three different Surgical Modalities for the management of intertrochanteric fractures in elderly".	43 rd SICOT Annual World Congress, Cairo, Egypt, Nov 2023	SICOT
		Oral Paper Presentation "Correlation between clinical severity and Magnetic resonance imaging findings in patients with lumbar canal stenosis"	43 rd SICOT Annual World Congress, Cairo, Egypt, Nov 2023	SICOT
		Oral Paper Presentation "Telerehabilitation is as effective as outpatient visits in the management of early	43 rd SICOT Annual World Congress, Cairo, Egypt, Nov 2023	SICOT



		osteoarthritis knee and mechanical low backache		
		Oral Paper Presentation "Arthroscopic release and decortication provide earlier return to work with similar patient satisfaction compared to continued intensive conservative therapy for recalcitrant tennis elbow: a retrospective observational study"	43 rd SICOT Annual World Congress, Cairo, Egypt, Nov 2023	SICOT
National Conferences.				
(a)	Dr Tarun Goyal	Relive surgery: "Revision Knee Arthroplasty"	NZOACON 2024. Patiala	NZOACON 2024. Patiala
		Hip Arthroscopy: Approach to a Young Adult with Hip Pain	IASCON 2023	IASCON 2023
		Slap tear and posterior instability	LHMC DOA 2nd SMART Course on 23rd MARCH 2024	LHMC DOA
		Multi-directional Shoulder Instability. UAIOACON, March 2024	UAIOACON, March 2024	UAIOACON
		Research Methodology course AIIMS Bathinda: Protocol writing	Research Methodology course AIIMS Bathinda: Protocol writing	AIIMS Bathinda
		Clinical Trials. Research Grant Workshop	AIIMS Gorakhpur. May 2023	AIIMS Gorakhpur
		Faculty for Knee Arthroscopy Cadaveric Course	KGMU Lucknow. April 2023	KGMU Lucknow
		Panelist for case discussion in Arthroplasty. APOA-YSF India Chapter	AIIMS Delhi. April 2023	AIIMS Delhi
		Robotic Assisted Knee Replacement (CORI)/ DAA in THR. Current Concepts in Arthroplasty	AIIMS Delhi December 2023	AIIMS Delhi
(b)	Dr Nilesh Barwar	Short segment with intermediate screw versus long segment pedicle screw fixation in the thoracolumbar unstable fractures: functional and radiological results.	CEZCON, JAIPUR. Aug 2023	Central Zone of Indian orthopaedic Association
		Thoracolumbar fracture dislocation in a two-year-old child: management and functional recovery.	DOACON, Kaushambi, Ghaziabad, Uttar Pradesh. Nov 2023	Delhi Orthopaedic Association
		Sub axial cervical spine injury with facet dislocation: technique and manoeuvres of anterior open reduction and fixation.	ASSICON, Mumbai. Jan 2024	Association of Spine Surgeon of India
		Lumbar pedicle anatomy	Basic spine course, GGS	Department of orthopaedics



			Medical Hospital, Faridkot. Feb 2024	, GGS Medical hospital, Faridkot
(c)	Dr Pankaj Kumar Sharma	Faculty Chairperson/Panellist/Judge Podium Presentation, New Delhi.	"5 th Annual Conference of APOA-YSF India Chapter "JPNATC, AIIMS, New Delhi, 22-23 April 2023	Asia Pacific Orthopedic Association
		Faculty Chairperson/Judge Podium Presentation	NZOACON 2023", New Delhi, 12 th to 14 th May, Hotel the Lalit, New Delhi.	North Zone Orthopedics Association
		Faculty Lecture "28th SICOT young surgeon international meeting 2023".	SICOT YSF 2023, India Chapter 19-20 August 2023, Sri Ramachandra Institute of Higher Education and Research, Porur, Chennai	SICOT, India Chapter
		Faculty Lecture "Comparative analysis and correlation of MRI changes of paraspinal muscles in acute or chronic symptomatic low backache"	CEZCON (central zone of IOA) 2023, Hotel Clarks Jaipur, 25-27 Aug 2023.	Central Zone Orthopaedics Association
		Table Faculty 'Spine Boot Camp' Cervical spine fixation workshop	ASSICON 2024, Mumbai, 18-20 January, Hotel Westin, Powai, Mumbai.	Association of Spine Surgeons of India
		Faculty Lecture "Lumbar pedicle screw fixation by open technique. How do I do it?"	Basic Spine Course 2024, GGS Medical College, Faridkot, 3rd Feb 2024.	GGS Medical College, Faridkot
(d)	Dr Ankit Rai	Workshop	Basic spine course, GGS Medical Hospital, Faridkot. Feb 2024	Department of orthopaedics , GGS Medical Hospital, Faridkot

8. **Faculty achievements - awards, honours etc.**

Sr.	Name of faculty	Award/honour	Organised by
(a)	Dr Tarun Goyal	ISAKOS Young Mentorship and Research Award 2023	ISAKOS, USA
(b)	PANKAJ KUMAR SHARMA	SICOT Travelling Fellowship 2023-24	SICOT International Society
(c)	Lakshmana Das S	SICOT meets SICOT Fellowship 2023-24	SICOT International Society



9. **Research activities undertaken in the department.**

<u>S No</u>	<u>Name & designation of PI</u>	<u>Title of the project</u>	<u>Source of support Intramural/ extramural</u>	<u>Status (ongoing/ completed)</u>	<u>Budget</u>
Projects Sanctioned.					
(a)	Dr Tarun Goyal	Outcome of bone marrow-derived culture-expanded mesenchymal stem cells for cartilage defects of Knee	SERB	Ongoing	29,07,383/-
		Evidence-based guideline on the use of stem cell therapy in meniscopathies	ICMR	Ongoing	7,09,200/-
		In-vitro proliferation potential of chondrocytes from osteoarthritic knee and adipose tissue from residues of total knee arthroplasty and their incorporation in 3D cultures for use as potential allograft	Nonfunded	Ongoing	--
		Association between reproductive factors and osteoarthritis of the knee joint in Indian females	Nonfunded	Ongoing	--
(b)	Dr Nilesh Barwar, Associate Professor, Department of Orthopaedics	Pattern of injuries and their severity in assault victims in the northwest region of India: a cross-sectional study.	Nonfunded	Ongoing	--

10. **Papers and Books/chapters published by the department.**

- (a) Schuh A, **Goyal T**, Rueth MJ, Koehl P. Verhärtung an der linken Fußsohle. MMW Fortschr Med. 2024 May;166(8):9. German. doi: 10.1007/s15006-024-3812-8. PMID: 38693356.
- (b) **Barwar N**, Singh PJ, **Goyal T**, **Sharma PK**, Jain S, **Das L**. Thoracolumbar fracture-dislocation in a two-year-old female child following child abuse: A case report and literature review. Trauma Case Rep. 2024 Apr 3;51:101014. doi: 10.1016/j.tcr.2024.101014. PMID: 38623090; PMCID: PMC11017037.
- (c) Schuh A, **Goyal T**, Koehl P, Rueth MJ. Knubbel und Knistern am Schlüsselbein [Osteoarthritis of the sternoclavicular joint]. MMW Fortschr Med. 2023 Oct;165(17):9. German. doi: 10.1007/s15006-023-2917-9. PMID: 37758989.
- (d) **Das L**, **Sharma PK**, Singh G, **Goyal T**. Telerehabilitation is as effective as outpatient visits in the management of early osteoarthritis knee and mechanical low backache. Eur J Orthop Surg Traumatol. 2024 Jan;34(1):405-413. doi: 10.1007/s00590-023-03673-0. Epub 2023 Aug 11. PMID: 37566137.
- (e) Choudhury AK, Niraula BB, Bansal S, Gupta T, **Das L**, **Goyal T**. Arthroscopic release and decortication provide earlier return to work with similar patient satisfaction compared to continued intensive conservative therapy for recalcitrant tennis elbow: a retrospective observational study. Eur J Orthop Surg Traumatol. 2024 Jan;34(1):175-180. doi: 10.1007/s00590-023-03628-5. Epub 2023 Jun 30. PMID: 37389708.



- (f) Govil N, Arora P, Parag K, Tripathi M, Garg PK, **Goyal T**. Postoperative acute pain management with duloxetine as compared to placebo: A systematic review with meta-analysis of randomized clinical trials. *Pain Pract.* 2023 Sep;23(7):818-837. doi: 10.1111/papr.13253. Epub 2023 May 28. PMID: 37246352.
- (g) Singh HV, **Das L**, Malayil R, Singh T, Singh S, **Goyal T**, Munshi A. Comprehensive analysis of culture conditions governing differentiation of MSCs into articular chondrocytes. *Regen Med.* 2023 Jul;18(7):573-590. doi: 10.2217/rme-2023-0017. Epub 2023 May 18. PMID: 37199246.
- (h) Barik S, Jain A, Chanakya PV, Raj V, **Goyal T**. What has changed in total hip arthroplasty in patients of juvenile idiopathic arthritis since 2000? A systematic review and pooled data analysis. *Eur J Orthop Surg Traumatol.* 2023 Oct;33(7):2737-2748. doi: 10.1007/s00590-023-03525-x. Epub 2023 Mar 22. PMID: 36947313.
- (j) Singh PJ, Jain S, **Barwar N**, **Das L**, Bhat B, **Kumar PS**. Distal Radioulnar Joint Instability in Distal Radius Fractures Managed with Volar Locking Plates. *International Journal of Orthopaedic Surgery.* 2024 Jan;32(1):54–8.
- (k) **Barwar N**, Singh PJ, Jain S, **Sharma PK**, **Goyal T**, **Das L**. Thoracolumbar fracture-dislocation in a two-year-old female child following child abuse: a case report and literature review. *Trauma case reports.* 2024 Jun 1;51:101014.
- (l) Singh R, **Sharma PK**, Verma V, Kamboj V, Shoeran A, Sharma J. Functional and Radiological Outcomes of Miniature Plate Osteosynthesis in Metacarpal and Phalangeal Fractures of Hand: A Prospective Study. *Cureus.* 2024 Apr;16(4).
- (m) D VK, Kar S, Mittal R, Saurabh S, **Sharma PK**, Meena P. Transfibular ankle arthrodesis with use of sagittally split fibula as a biological plate leads to excellent outcome: A retrospective analysis. *J Clin Orthop Trauma.* 2023 Feb 11; 38:102125. doi: 10.1016/j.jcot.2023.102125.
- (n) **Das L**, **Sharma PK**, Singh G, **Goyal T**. Telerehabilitation is as effective as outpatient visits in the management of early osteoarthritis knee and mechanical low backache. *European Journal of Orthopaedic Surgery & Traumatology* <https://doi.org/10.1007/s00590-023-03673-0>.
- (o) Amarnath SS, Kumar V, **Das SL**. Classification of Osteoporosis. *Indian J Orthop.* 2023 Dec 6;57(Suppl 1):49-54. doi: 10.1007/s43465-023-01058-3. PMID: 38107823; PMCID: PMC10721754.
- (p) Choudhury, A.K., Niraula, B.B., Bansal, S, **Das L**. et al. Arthroscopic release and decortication provide earlier return to work with similar patient satisfaction compared to continued intensive conservative therapy for recalcitrant tennis elbow: a retrospective observational study. *Eur J Orthop Surg Traumatol* (2023). <https://doi.org/10.1007/s00590-023-03628-5>.
- (q) Singh HV, **Das L**, Malayil R, Singh T, Singh S, **Goyal T**, Munshi A. Comprehensive analysis of culture conditions governing differentiation of MSCs into articular chondrocytes. *Regen Med.* 2023 May 18. doi: 10.2217/rme-2023-0017. Epub ahead of print. PMID: 37199246.
- (r) Detail of Book/Chapter published with indexing database*.

Chapter

11. **Other important Highlights of the department.** Organized a public awareness program in Silver Oaks School, Dabwali Road, Bathinda on “National Bone and Joint Day” on 4 Aug 2023 with a theme of “Prevention of osteoporosis” in the population, under the aegis of India Orthopaedic Association.

12. **Number of Thesis Supervised MD/MS*.**

(a) **Supervisor in different Thesis.**

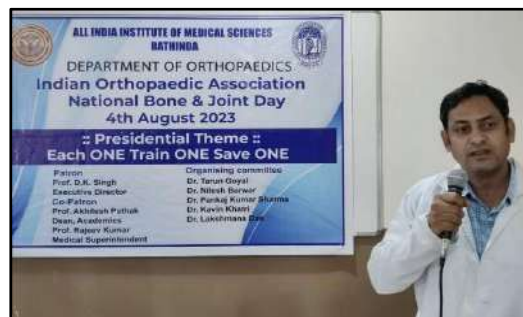
(i) Assessment of spinopelvic parameters in the normative Indian population and comparison with patients of chronic low backache.

- (ii) Correlation between MRI findings and neurological outcomes in spinal cord injury: A prospective observational study.
- (iii) Comparison of radiological and functional outcome between single staged external fixation with or without minimally invasive internal fixation and staged internal fixation in a patient with high-velocity proximal tibia fracture: A randomised controlled trial.
- (iv) Correlation between clinical-radiological findings and Histopathological grading of lumbar facet joint degeneration in patients undergoing lumbar spine surgery with Chronic low back pain: An observational study.

(b) **Co-Supervisor in Thesis.**

- (i) Comparison between contoured and straight rod in restoration of segmental and regional lumbar lordosis in single-level open transforaminal lumbar interbody fusion.
- (ii) “Comparison of ocular perfusion pressure between two general anaesthesia maintenance protocols in adults scheduled for elective thoracolumbar spine surgeries in the prone position; A prospective randomized controlled trial.”
- (iii) Evaluation of lumbar spinal instability in patients of low backache with and without pars fracture: A prospective observational study.

13. **Any other achievements in number***. Advance Trauma Life Support (ATLS) certified Instructor 2024.



PUBLIC AWARENESS PROGRAM ON “NATIONAL BONE & JOINT DAY” ON 4TH AUG 2023 AT SILVER OAKS SCHOOL, BATHINDA



DEPARTMENT OF PATHOLOGY

Name of the Department	Department of Pathology
Head of the Department	Dr.Manjit Kaur

1. Faculty Details.

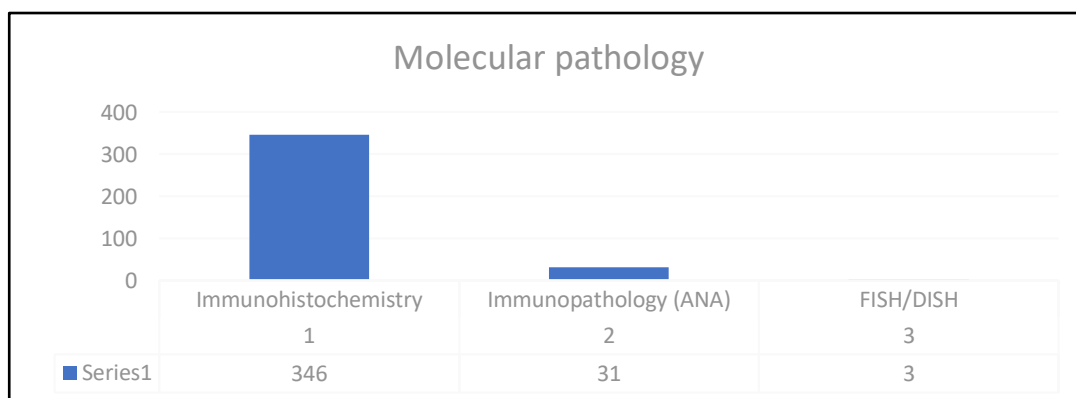
Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr Manjit Kaur	Additional Professor	13.11.2019 (as Assistant Professor) 5.7.2022 as Additional Professor
(b)	Dr Ankita Soni	Assistant Professor	8.2.23
(c)	Dr Gargi Kapatia	Assistant Professor	13.9.21
(d)	Dr. Pallavi Saraf	Associated Professor	11.11.2023

2. Brief Introduction of the department.

(a) **Vision.** Department of Pathology helps the medical field by educating the medical students to understand the etiopathogenesis of the disease. As pathology links basic sciences with clinical manifestations and plays an important role in the diagnosis, management and prognosis. Therefore, all the up dated laboratory medicine facilities will be provided with special attention to excel in development of all the sub specialties like Histopathology, Cytopathology, Hematopathology, Immunopathology, onco-pathology and autopsy pathology.

(b) **Academics.** The objectives of our department are to provide quality medical education and to refine undergraduate/postgraduate medical students to meet the country's need for highly qualified doctors and medical teachers. Our mission is to establish a center of excellence in faculty and technician training, diagnosis and research.

(c) **Patient Related Services.** The Department of Pathology is equipped with facility automated haematology analyser for CBC, coagulation and HPLC. The department is providing synoptic histopathology reports with the use of automated processor. The department is well equipped with automated immunohistochemistry analyser with the capacity of molecular testing of carcinoma breast and carcinoma lung. We aim to serve patient needs by setting diagnostic facilities with the advanced technologies to improve the area of laboratory medicine.





3. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

<u>Sr.</u>	<u>Name of faculty</u>	<u>Title/Topic</u>	<u>Details of the Event</u>	<u>Organised by</u>
<u>National Conferences.</u>				
(a)	Dr. Manjit Kaur	(Paper Presentation): Current Trends and clinicopathological spectrum of Oral Lesions in a Tertiary Care Centre-North India	APCON 2023	All India Institute of Medical Sciences New Delhi
(b)	Dr. Manjit Kaur	Highlights on Management of Breast Cancer	12 th Annual Conference	Advanced Cancer Institute Bathinda
(c)	Dr Gargi Kapatia	(Oral Presentation): To study the histopathological Spectrum of pancreatic lesions in budding tertiary care institute of North India	APCON 2023	All India Institute of Medical Sciences New Delhi
(d)	Dr Ankita Soni	(Poster Presentation): To study the histopathological spectrum of pancreatic lesions in a budding tertiary care institute of North India.	APCON 2023	All India Institute of Medical Sciences New Delhi
(e)	Dr Dhwani	(Poster Presentation): Follicular thyroid carcinoma mimicking as multiple myeloma	PGIHEMONC Feast 2023	PGIMER CHD
(f)	Dr. Madhuri	(Poster Presentation): Hematological investigation is superior to nuclear scan imaging for diagnostic metastatic deposits in bone marrow	PGIHEMONC Feast 2023	PGIMER CHD
(g)	Dr Dhwani Jain	(Paper Presentation): Current adoption and clinical impact of MILAN system for reporting salivary gland cytopathology.	53 rd Annual Conference of Indian Academy of Cytologists	Gajra Raja Medical College Gwalior
(h)	Dr Akula Madhuri Priyanka (Guided by Dr Manjit Kaur)	(Poster Presentation): The Retrospective study of Papanicolaou test, Cervical cancer screening program detected infections	53 rd Annual Conference of Indian Academy of Cytologists	Gajra Raja Medical College Gwalior

4. **Research activities undertaken in the department.**

<u>Sr.</u>	<u>Name & designation of PI</u>	<u>Title of the project</u>	<u>Source of support Intramural/ extramural</u>	<u>Status (ongoing/ completed)</u>	<u>Budget</u>
<u>Projects Sanctioned.</u>					
(a)	Dr Manjit Kaur	To study the prevalence and spectrum of hemoglobinopathies in the region of Punjab	Blood Cell NHM Punjab	Ongoing	60,000 (recurring)



(b)	Dr Manjit Kaur	To start testing and treatment for Haemoglobinopathies and Hemophilia (Blood Bank Part and Treatment part)	MoHFW	Ongoing	28,47,000 (recurring)
(c)	Dr Manjit Kaur	Screening of Thalassemia	MoHFW	Ongoing	470640 (recurring)
(d)	Dr Manjit Kaur (Co-PI)	Expression profiling of MicroRNA in blood samples from various stages of cancer patients as novel diagnostic and prognostic biomarker for early detection of cancer	HSCSIT	Ongoing	20 Lacs
(e)	Dr Manjit Kaur	To evaluate association of Human papillomavirus infection in Breast Cancer in Malwa Region of Punjab	Intramural Project	Ongoing	Self-funded
(f)	Dr Gargi Kapatia	To evaluate cyto-histopathological correlation of thyroid lesions- A two-year prospective study	Intramural Project	Ongoing	Non-Funded
(g)	Dr Manjit Kaur (Co-PI)	Circulating microRNA-590-5p function as a liquid biopsy marker in non-small cell lung cancer	NIH/NCI. Grant Number:CA093729 ICMR	Ongoing	33 Lacs
(h)	Dr Manjit Kaur	National Health Research Priority on Breast Cancer Survival Studies	ICMR	Ongoing	Appr 1 cr (Sanctioned 1st year Budget 43,00,000)
(j)	Dr Manjit Kaur (Co-PI)	National Health Research Priority - ISCALL	ICMR	Ongoing	Funded
(k)	Dr Manjit Kaur (Co-PI)	DST-PURSE	DST	Ongoing	Funded
Projects Submitted.					
(a)	Dr Gargi Kapatia	Clinico histopathological and Dermoscopic spectrum of cutaneous tumours in a tertiary care institute of north India	Intramural Project	Submitted	Non-Funded
(b)	Dr Ankita Soni	Audit of the Preanalytical phase in the surgical Histopathology laboratory in AIIMS Bathinda	Intramural Project	Submitted	Non-Funded



(c)	Dr Ankita Soni	CO-Principal Investigator: To evaluate and correlate the clinical, histopathological and Dermoscopic spectrum of cutaneous tumours in a tertiary care institute of North India	Intramural Project	Submitted	Non-Funded
(d)	Dr Ankita Soni	Array of Orbital-Ocular Lesions in a Tertiary Care Center of Malwa region of Punjab: A Clinicopathological study.	Intramural Project	Submitted	Non-Funded
(e)	Dr Manjit Kaur (Co-PI)	Dermatological manifestations of Anti-cancer Treatments: An observational study from tertiary care center from North India	Intramural Project	Submitted	Non-Funded
(f)	Dr Manjit Kaur (Co-PI)	Recent trends of surge in pulmonary involvement in Sino nasal mucormycosis	ICMR	Submitted	Funded

5. **Papers and Books/chapters published by the department.**

- (a) Shivani B, Sushama, AK Brar, **Rana MK**. Use of monopolar and bipolar radiofrequency probes for treatment of cutaneous leiomyoma. Journal of Cutaneous and Aesthetic Surgery ():10.4103/ JCAS. JCAS_78_23, November 30, 2023. | DOI: 10.4103/JCAS.JCAS_78_23.
- (b) Jindal A, **Kapatia G, Kaur Rana M**. Metastatic germ cell tumor in ascitic effusion cytology- Is it that uncommon? Diagn Cytopathol. 2023 Jan;51(1):101-102. doi: 10.1002/dc.25069. Epub 2022 Oct 29. PMID: 36308413.
- (c) Jindal A, **Kapatia G, Rana MK**, Rajan N, Khara U. Fine Needle Aspiration Cytology of Maxillary Ameloblastoma: A Cytological Eye-Opener. Journal of Cytology 40(1):p 49-50, Jan–Mar 2023. | DOI: 10.4103/joc.joc_106_22.
- (d) Jindal A, **Kapatia G, Rana MK**, Goyal LD. Granulomas on cervical Pap smear: "Forget me not". Cytojournal. 2023 Sep 1;20:24. doi: 10.25259/Cytojournal_49_2022. PMID: 37681082; PMCID: PMC10481806.
- (e) A Jindal, **G Kapatia, MK Rana**, MP Singh. Lymphocytic emperipolesis in breast carcinoma on cytology smears—A curious finding! Cytopathology. 2023;34(5):510-1.
- (f) Bansal S, Chojer P, Sushama S, **Rana MK**. Dermoscopy in Necrolytic Acral Erythema: A Case Report. Dermatol Pract Concept. 2024 Jan 1;14(1):e2024022. doi: 10.5826/dpc.1401a22. PMID: 38364425; PMCID: PMC10868904.
- (g) A Goel, **G Kapatia**, MA Mir, **MK Rana**. Isolated intramuscular cysticercosis of the forearm masquerading as malignancy. BMJ Case Reports CP. 2024;17(2):e256110.
- (h) A Jindal, **G Kapatia, MK Rana**, R Sharma. Calcifying Aponeurotic Fibroma of Leg Masquerading as Hemangioma in an Adolescent Male along with Review of Literature. Indian Journal of Surgical Oncology. 2024;15(1):136-44.



- (j) Goyal L, Garg P, Goyal S, Bansal S, **Rana M**. Varied Clinical Presentations of Aggressive Angiomyxoma of the Vulva: A Rare Entity. *J Family Reprod Health*. 2024;18(1):75-79.
- (k) U Khera, **G Kapatia, MK Rana**. Incidental detection of microsporidium spores on Ziehl-Neelson staining done on cervical pap smear. *Cytojournal*. 2023;20:9.
- (l) MA Mir, J Jain, P Kumar, R Maurya, **MK Rana** et al. Bulldog Scalp Syndrome. *Indian Journal of Plastic Surgery*. 2023;56:06.
- (m) Rajiv Ranjan Kumar, Adrija Mohanta, **Manjit Kaur Rana** et al. Clinical Significance of LncRNAs SOX2-OT and NEAT1 in Esophageal Squamous Cell Carcinoma, 04 April 2024, PREPRINT (Version 1) available at Research Square [<https://doi.org/10.21203/rs.3.rs-4134350/v1>].
- (n) U Khera, **G Kapatia, MK Rana**. Incidental detection of microsporidium spores on Ziehl-Neelson staining done on cervical pap smear. *Cytojournal*. 2023;20:9.
- (o) Vivek Uttam, **Manjit Kaur Rana**, Uttam Sharma, Karuna Singh, Aklank Jain. Circulating long non-coding RNA EWSAT1 acts as a liquid biopsy marker for esophageal squamous cell carcinoma: A pilot study. 2024;9(1):1-11. ISSN 2468-0540, <https://doi.org/10.1016/j.ncrna.2023.10.009>.
- (p) Mohanta, A., Kumar, R. R., Singh, R. K., Mandal, S., Yadav, R., Khatkar, R. **MK Rana**, APS Rana, Jain, A. (2023). Emerging Role of miR-320a in Lung Cancer: A Comprehensive Review. *Biomarkers in Medicine*, 17(18), 767–781. <https://doi.org/10.2217/bmm-2023-0215>.
- (q) **Kaur M**, Chaudhary N, **Kapatia G**. Breast lump: "Keep me in your differentials". *Cytojournal*. 2023 Jun 8;20:13. doi: 10.25259/Cytojournal_12_2022. PMID: 37405307; PMCID: PMC10316205.
- (r) Prevalence and spectrum of haemoglobinopathies in females of reproductive age group- A first tertiary care center experience in Punjab, North India. Narang V, Jain A, Grover S, Soni A, Narang M, Taneja A. *Indian J Pathol Microbiol*. 2023 Jul-Sep;66(3):564-567.
- (s) Teratoid Wilm's tumor with Cryptorchidism. Garg N, Selhi PK, Soni A. *Indian J Pathol Microbiol*. 2023 Jul-Sep;66(3):667-668.
- (t) Secondary amyloidosis with concomitant gastric GIST and gastric adenocarcinoma - A case report. Soni A, Batta N, Mehmi S, Narang V, Garg B, Kaur H. *Indian J Pathol Microbiol*. 2023 Jul-Sep;66(3):594-596.
- (u) Ectopic cervical thymus mimicking lymph nodal metastasis in a case of papillary thyroid carcinoma. Soni A, Narang V, Jindal S, Kaur H. *Indian J Pathol Microbiol*. 2023 Apr-Jun;66(2):417-418.
- (v) Ankita S, Ashwajit S, Parul V, Vikram N, Harpreet K, Manish M. Glial Heterotopia of the Middle Ear: First Case in Indian Literature. *Indian J Otolaryngol Head Neck Surg*. 2023 Sep;75(3):2482-2484.
- (w) Comparative Study of Ki-67 Labeling Index Quantification by Eye-rolling, Manual Count, and Digital Image Analysis; An Approach with Caution. A Singh, V Narang, A Soni, K Angural, S Jindal, B Garg, H Kaur. *Iranian Journal of Pathology* 2024;19(1):75-80.
- (x) Symmetrical peripheral gangrene and Roth spots in a patient with infective endocarditis. S Kumar, M Kansal, A Soni, D Chaudhary, B Singh. *Clinical Medicine* 2023 Nov;23(6):633-634.
- (y) Histopathological Spectrum of Central Nervous System Tumours in Adolescent and Young Adults: A Cross-sectional Study from Punjab, Northern India. Vikram Narang, Gagandeep Singh, Gursheen Puri Batta, Ankita Soni, Harpreet Kaur. *Journal of Clinical and Diagnostic Research*. 2024 Feb, Vol-18(2): EC17-EC20.
- (z) Singh S, Poonia K, Bansal S, **Kapatia G**. Bilateral chancre of the tongue: An unusual presentation of primary syphilis. *Int J STD AIDS*. 2023 Jun;34(7):488-490. doi: 10.1177/09564624231163743. Epub 2023 Mar 16. PMID: 36927340.



(aa) Goel A, **Kapatia G**, Gupta S. Commentary on the "Diagnostic value of the 'triple diagnosis method' in salivary gland tumors". *Diagn Cytopathol.* 2023 Nov;51(11):724-725. doi: 10.1002/dc.25218. Epub 2023 Aug 29. PMID: 37642244.

(ab) **Kapatia G**, Gupta G, Kapoor U. Oculo-Renal Pathologies- 'Two Sides of the Same Coin'. *Indian J Nephrol.* 2023 Jul-Aug;33(4):317-318. doi: 10.4103/ijn.ijn_182_22. Epub 2023 Mar 7. PMID: 37781559; PMCID: PMC10503573.

(ac) Goel A, **Kapatia G**, Parwaiz A, Gupta S. Commentary on "Comparison of glass and digital slides for cervical cytopathology screening and interpretation". *Diagn Cytopathol.* 2023 Dec;51(12):791-792. doi: 10.1002/dc.25242. Epub 2023 Oct 12. PMID: 37828831.

(ad) **Kapatia G**, Virk H, Parwaiz A, Kapoor U. Role of Peripheral Blood Film in Renal Diseases. *J Human Anat* 2023 Sep, 7(1): 000173.

(ae) Jindal A, **Kapatia G**, Gupta G. Ocular metastasis from renal malignancies - A comprehensive review. *Indian J Ophthalmol.* 2023 Oct;71(10):3281-3289. doi: 10.4103/IJO.IJO_3073_22. PMID: 37787223; PMCID: PMC10683680.

(af) Goel A, **Kapatia G**, Gupta S, Parwaiz A. Commentary on "Inking Cell Blocks Enhances Scanner Detection for Diagnosis in Pathology". *Diagn Cytopathol.* 2024 Mar;52(3):183-184. doi: 10.1002/dc.25275. Epub 2024 Jan 16. PMID: 38229509.

(ag) Goel A, **Kapatia G**, Mir MA, Rana MK. Isolated intramuscular cysticercosis of the forearm masquerading as malignancy. *BMJ Case Rep.* 2024 Feb 6;17(2):e256110. doi: 10.1136/bcr-2023-256110. PMID: 38320826.

(ah) **Kapatia G**, Saikia A, Mohapatra DS, Gupta P, Rohilla M, Gupta N, Srinivasan R, Rajwanshi A, Dey P. The cytological diagnosis of Pneumocystis jiroveci pneumonia in bronchoalveolar lavage. *Cytojournal.* 2023 Jan 25;20:2. doi: 10.25259/Cytojournal_5_2022. PMID: 36751555; PMCID: PMC9899465. (Original Article).

(aj) Gupta P, **Kapatia G**, Gupta N, Ballari N, Rai B, Suri V, Rajwanshi A. Mismatch Repair Deficiency in Adult Granulosa Cell Tumors: an Immunohistochemistry-based Preliminary Study. *Appl Immunohistochem Mol Morphol.* 2022 Sep 1;30(8):540-548. doi: 10.1097/PAI.0000000000001051. Epub 2022 Aug 15. PMID: 35960021. (Original Article).

(ak) **Saraf P**, Bharti JN. Pulmonary nodular ossification: A rare and incidental autopsy finding. *Lung India.* 2023 Nov 1;40(6):545-6.

(al) **Saraf P**, Bharti JN. Mucormycosis presenting as intestinal perforation: A pathologist perspective. *Arab Journal of Gastroenterology.* 2024 Feb 19.

6. The department needs to provide the following numbers **individual faculty wise:-**

(a) **Dr Manjit Kaur.**

(i)	Research papers	:	16
(ii)	Book/Book chapter	:	Nil
(iii)	Number of citations*	:	296
(iv)	i10 Index*	:	07
(v)	h-index*	:	09

(b) **Dr Gargi.**

(i)	Research papers	:	19
(ii)	Book/Book chapter	:	Nil
(iii)	Number of citations*	:	161
(iv)	i10 Index*	:	04
(v)	h-index*	:	08



(c)	<u>Dr Ankita Soni.</u>		
	(i)	Research papers	: 08
	(ii)	Book/Book chapter	: Nil
	(iii)	Number of citations*	: 25
	(iv)	i10 Index*	: 01
	(v)	h-index*	: 04
(d)	<u>Dr Pallavi Saraf.</u>		
	(i)	Research papers	: 02
	(ii)	Book/Book chapter	: Nil
	(iii)	Number of citations*	: 05
	(iv)	i10 Index*	: 00
	(v)	h-index*	: 05

*According to Google Scholar database

7. **Other important Highlights of the department.** Training activities conducted, surgeries, camps, etc.

- (a) Workshop organized on Bench to Bed side - Translating research from Laboratory to Patient Care (ICMR) Pathology/ 01, 02.
- (b) Initiation of Molecular Lab Services Pathology /03.
- (c) Event Organized on Hemophilia Update 2023 Pathology/ 04,05.
- (d) Guest lecture on Thalassemia Conclave 2023 Pathology /06.
- (e) QUIZ Organized in association with ISHBT Zonal Level for PGs Pathology/ 07.
- (f) Camp organized for Stem Cell Awareness Pathology/ 08.
- (g) Training of NABL by QCI Pathology/ 09.
- (h) Commencement of Cervical Screening Services LBC Pathology/ 10.
- (j) Janjatiya Gaurav Diwas (Awareness program for One week)2023 Pathology/ 11.

8. **Number of Thesis Supervised MD/MS***.

- (a) Unravelling the role of novel long non-coding RNAs in the development and progression of oesophageal cancer (PhD).
- (b) SOX9 Immunohistochemical expression and its correlation with prognostic factors of carcinoma breast (MD).
- (c) Immunohistochemical expression of FOX A1 and its correlation with estrogen, progesterone and human epidermal growth receptor 2 neu status in patients of carcinoma breast. (MD).
- (d) Comparison of the Effectiveness of Loop Electrosurgical Excisional Procedure And Cryotherapy in the Management of Chronic Cervicitis: An Open-Label Randomized Trial (MD).
- (e) Plasma D-Dimer Level As A Biomarker For Assessing Liver Dysfunction In Patients With Liver Cirrhosis: A Cross-Sectional Study (MD).
- (f) A Clinico-epidemiological study among patients of primary cutaneous amyloidosis using dermoscopy and histopathology in a tertiary care institute of North India (MD).
- (g) Clinical And Functional Assessment of Joint Health And Health Related Quality Of Life In Children With Moderate-Severe Hemophilia In Bathinda Region (MD).
- (h) Multiparametric magnetic resonance imaging evaluation of benign and malignant breast lesions (MD).



9. **Any other achievements in number***. Department of Pathology has attained concordance in External Quality assurance Program in Hematology (All India Institute of Medical Sciences New Delhi), Histopathology (NCG Tata Memorial Hospital Mumbai, Neu-QAP Bangalore), Cytology (PGIMER ChD).



PATHOLOGY /01



PATHOLOGY /02



PATHOLOGY /03



PATHOLOGY /04



PATHOLOGY /05



PATHOLOGY /06



PATHOLOGY /07



PATHOLOGY /08



PATHOLOGY /09



PATHOLOGY /10



PATHOLOGY /11



DEPARTMENT OF PAEDIATRIC MEDICINE

Name of the Department	Paediatric medicine
Head of the Department	Dr. Arvinder Wander

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr. Arvinder Wander	Associate professor	21-04-2023
(b)	Dr. Prashant Chhabra	Assistant professor	11-04-2022
(c)	Dr. Raksha Ranjan	Assistant professor	15-11-2023
(d)	Dr. Ramandeep Kaur	Assistant professor	11-03-2024
(e)	Dr Ankit Kumar Meena	Assistant professor	20-04-2024
(f)	Dr Manish Swami	Assistant professor	05-03-2024

2. Brief Introduction of the department.

(a) **Department Vision.** Enabling teaching opportunities continues to be our cherished objective. We prepare future leaders in paediatric medicine by offering broad-based training in MD Paediatrics, critical care, and paediatric subspecialties within a variety of ambulatory, emergency, and inpatient settings. Besides MD, the Department also planning to start DM programs in Neonatology, Paediatric Neurology, and other subspecialties. The Paediatrics Department is dedicated to providing comprehensive academic programs for undergraduate students and aspiring pediatricians. Our curriculum combines rigorous theoretical knowledge with hands-on clinical experience, ensuring that students are well-prepared to meet the challenges of pediatric healthcare. We offer specialized training in areas such as neonatology, paediatric neurology, and Paediatric oncology and other subspecialties guided by experienced faculty committed to fostering excellence in paediatric care. The Paediatrics Department conducts regular classes and clinics for undergraduate students, as well as postgraduate classes, following a competency-based curriculum. Residents are encouraged to engage in research, and our postgraduate students have published articles in leading journals. They are also supported in participating in and presenting their work at upcoming national conferences.

(b) **Patient-related services.**

- (i) Routine services of OPD, ward care, PICU, NICU, and emergency care.
- (ii) Dedicated services for child neurology patients, including EEGs, NCVs, muscle biopsies, and the management of neurometabolic disorders, are overseen by specialized faculty members.
- (iii) Paediatric oncology care, including bone marrow biopsies and chemotherapy, is provided by specialized faculty members.
- (iv) Neonatal services are provided regularly, including the care of premature newborns by a dedicated Neonatologist.

3. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

- (a) Number of Papers presented at National Conference*.
- (b) Number of Papers presented at International Conference*.



Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
Dr Arvinder-International Conferences.				
(i)	Dr Arvinder-Speaker	8th international conference on Neurology and Brain disorders	October 19 th to October 21, Boston USA	Magnus Group USA
(ii)	Dr Arvinder-Oral presentation	Kuna Abroms Pediatric Neurology Forum Boston University	18 th November 2023	Boston University USA
(iii)	Dr Arvinder-Oral presentation	Kuna Abroms Pediatric Neurology Forum Boston University	6 th April 2024	Boston University USA
National Conferences.				
(i)	Dr Arvinder-Neuropedicon-Panelist	Panelist in complex epilepsy case discussion panel	1-3 rd September 2023 Agra UP	IAP - Neurology chapter
(ii)	Dr Arvinder-Speaker	CME /Workshop on Sleep Disorders	15 th March 2024	AIIMS Bathinda, Pulmonology Department
(iii)	Dr Arvinder-Speaker and Organising Secretary	High-end workshop on Diagnostic and Translational research using mRNA (Noncoding RNA in HiPSCs for personalized medicine	March 11-20 2024	Central University of Punjab, Bathinda
National Conferences- Dr Prashant Chhabra.				
(i)	Dr Prashant Chhabra, Assistant Professor	Moderator in Panel Discussion on – Hematological concerns in Down Syndrome	November 2023, PHOCON 2023, Chennai	IAP PHO chapter
(ii)	Dr Prashant Chhabra, Assistant Professor	HEOR Analytics in Hemophilia: Panel Discussion	Bleeding disorders consensus meeting May 2023. Chandigarh	Hemophilia advocacy society and GGS medical college Faridkot
(iii)	Dr Prashant Chhabra	A judge in a poster presentation	May 2023, ISBMT annual meet, Bengaluru	Indian Society of Bone Marrow Transplantation
(iv)	Dr Prashant Chhabra, Assistant Professor	Management of Aplastic Anemia: Panel Discussion	PGIMER Hem-Onc Fest, September 2023	PGIMER Chandigarh
(v)	Dr Prashant Chhabra, Assistant Professor	Hemophagocytic lymphohistiocytosis (HLH) for practitioners	North Zone Pedicon, December 2023 Jalandhar	IAP north zone
(vi)	Dr. Ramandeep Kaur	<i>Physiological Postnatal Weight Loss Nomograms in Exclusively Breastfed Healthy Infants (≥36 Weeks) during Initial Birth Hospitalization from Semi-Arid Region</i>	PEDICON 2024	IAP



4. **Faculty achievements - awards, honours, etc.**

<u>Sr.</u>	<u>Name of faculty</u>	<u>Award/honour</u>	<u>Event</u>	<u>Organised by</u>
(a)	Dr Arvinder Wander	Awarded and honoured in High-end workshop on Diagnostic and Translational research using mRNA (Non-coding RNA in HiPSCs for personalized medicine	Workshop 11-20 MARCH 2024	Department of Zoology, CUP Bathinda Punjab
(b)	Dr Ramandeep Kaur	Dr. S.S. Manchanda Neonatology Research Award (Silver medal) in "Neonatology"	PEDICON 2024	IAP
(c)	Dr. Prashant Chhabra	Facilitated as a guest lecturer	Basics of Stem cell donation and stem cell transplant in October 2023.	Baba Farid group of institutions
		Facilitated as a guest lecturer	Seminar on Pediatric Rare Genetic Disorders – August 2023	at Central University of Punjab, Bathinda

5. **Research activities undertaken in the department.**

<u>Sr.</u>	<u>Name & designation of PI</u>	<u>Title of the project</u>	<u>Source of support Intramural/ extramural</u>	<u>Status (ongoing/ completed)</u>	<u>Budget</u>
<u>Projects Sanctioned.</u>					
(a)	Dr Prashant Chhabra, Assistant Professor (Co-PI)	Mission Programme in Paediatric Rare Genetic Disorders (PRaGeD)	DBT (extramural multicentric national study with 16 centers). AIIMS Bathinda is collaborating with Central University of Punjab as one of the centres.	Ongoing	Site Budget 10230400.00 for CUPB.
(b)	Dr Prashant Chhabra, Assistant Professor (Principal Investigator)	Improving Survival in Childhood Acute Lymphoblastic Leukaemia (ISCALL): ICICLE implementation study	ICMR	ONGOING	Site Budget 6443084.40



Projects Submitted.					
(a)	Dr Arvinder	Investigating the role of heavy metals mediated alteration of gut microbiota in Type 1 diabetes: exploring a plausible treatment option	ICMR	Submitted	

6. **Papers and Books/chapters published by the department.**

(a) **Dr Arvinder.** Research papers:-

(i) Meena AK, **Wander A**, S M, Peer S, Bansal A. *Magnetic Resonance Imaging Pattern Recognition in Fucosidosis. Indian J Pediatr. 2024 Jan 22. doi: 10.1007/s12098-024-05052-x. Epub ahead of print. PMID: 38246967.* First author.

(ii) Peer S, Bhardwaj NK, **Wander A.** *Neuroimaging features in Wolfram syndrome type 1. Neurol Sci. 2024 Jun;45(6):2943-2944. doi: 10.1007/s10072-024-07352-8. Epub 2024 Jan 31. PMID: 38291196.* Coauthor.

(iii) **Wander A**, Mahesan A, Meena AK, Manikandan S, Peer S, Singh P, Gulati S. *Bartrter Syndrome Unveiled: Unraveling the Masquerade of Neuroregression. Indian J Pediatr. 2024 Mar;91(3):314. doi: 10.1007/s12098-023-04993-z. Epub 2023 Dec 20. PMID: 38114863.* First author.

(iv) Meena AK, Choudhary PK, **Wander A**, Madaan P. *Atypical Neuroimaging Features of Herpes Simplex Virus-2 Encephalitis. Indian J Pediatr. 2024 Feb 23. doi: 10.1007/s12098-024-05082-5. Epub ahead of print. PMID: 38393639.* Coauthor.

(v) Singh R, Peer S, **Wander A.** *Exploring the intersection of tuberous sclerosis and precocious puberty unveiled by hemato-colpos. Neurol Sci. 2024 Apr 19. doi: 10.1007/s10072-024-07523-7. Epub ahead of print. PMID: 38637341* Corresponding author.

(vi) **Wander A**, Meena AK, Torres A, Peer S, Singh P, Gulati S. *Tongue and Hand Tremors in an Infant with Traumatic Brain Injury. Indian J Pediatr. 2024 Jul;91(7):747. doi: 10.1007/s12098-023-05004-x. Epub 2023 Dec 30. PMID: 38159149.* First author.

(vii) Ranjan J, **Wander A**, Kaur N, Sharma B, Kant K, Aggarwal A. *Atypical Presentation Resembling Acute Leukoencephalopathy With Restricted Diffusion in Staphylococcus aureus Meningoencephalitis. Cureus. 2024 Mar 4;16(3):e55517. doi: 10.7759/cureus.55517. PMID: 38449914; PMCID: PMC10915905.* Coauthor.

(viii) Singh R, Lakhanpal V, A R, Peer S, **Wander A.** *Olivary Hypertrophy Induced Palatal Myoclonus in a Treated Case of Medulloblastoma. Neuropediatrics. 2024 Jun 19. doi: 10.1055/s-0044-1787745. Epub ahead of print. PMID: 38897218.* Corresponding author.

(ix) **Wander A**, Meena AK, Peer S, Paliania RK, Chhabra P, Bhardwaj NK, Mir A, Gulati S. *Beyond Fever: Central Nervous System Vasculitis and Intracranial Bleed in a Child with Kawasaki Disease. Indian J Pediatr. 2024 Jun;91(6):642. doi: 10.1007/s12098-023-05001-0. Epub 2024 Jan 4. PMID: 38175496.* First author.

(x) **Wander A**, Meena AK, Peer S, Paliania RK, Chhabra P, Bhardwaj NK, Mir A, Gulati S. *Beyond Fever: Central Nervous System Vasculitis and Intracranial Bleed in a Child with Kawasaki Disease. Indian J Pediatr. 2024 Jun;91(6):642. doi: 10.1007/s12098-023-05001-0. Epub 2024 Jan 4. PMID: 38175496.* First author.



(xi) A R, Singh R, Meena A, et al. (July 04, 2024) *Unusual Anterior Choroidal Artery Occlusion in Pediatric Type 1 Diabetes: A Case Report Highlighting Atypical Presentation*. *Cureus* 16(7): e63867. doi:10.7759/cureus.63867-**Corresponding author**.

(xii) Wander A, Basra V S, Malhi T S, et al. (June 29, 2024) *Giant Aortic Arch Aneurysm Presenting as Ortner's Syndrome in Polycystic Kidney Disease: A Radiological Perspective*. *Cureus* 16(6): e63490. doi:10.7759/cureus.63490-**First author**.

(xiii) Sinha R, Meena AK, Chourey N, Wander A, Vallabhaneni Y, Chaudhary P, Shanmugam O, Roy N, Kumar P, Upadhyay A. *Clinical Profile of Patients with Scorpion Envenomation at a Peripheral Center of Western India: A Retrospective Study*.-Coauthor.

(xiv) Anmol Bansal MD, Arvinder Wander DM, Ankit Kumar Meena DM, Sameer Peer DM. *BPTF-Associated Neurodevelopmental Disorder Masquerading as Leukodystrophy*. *Ann Child Neurol*. 2024;32(2):137-9.-**Corresponding author**.

(b) **Dr. Prashant Chhabra**. Pallavelangini S, Senguttuvan G, Bhatia P, Chhabra P et al. (2023). *A Well-Curated Cost- Effective Next-Generation Sequencing Panel Identifies a Diverse Landscape of Pathogenic and Novel Germline Variants in a Bone Marrow Failure Cohort in a Resource-Constraint Setting*. *J Mol Diagn*. 2023;25 (10):748–757. DOI- 10.1016/j.jmoldx.2023.06.009.

7. **Other important Highlights of the department.**

(a) **Dr Arvinder**.

(i) Celebrated world food safety in collaboration with the Department of dietary.

(ii) Organized High-end workshop from March 11-20, 2024, on Diagnostic and Translational research using mRNA (Noncoding RNA in HiPSCs for personalized medicine at Central University of Punjab, Bathinda (Organizing Member).

(b) **Dr. Prashant Chhabra**.

(i) Celebrated World Cancer Day by conducting a national CME on Childhood Cancers- NTP-PPO- National Training Project in Practical Paediatric Oncology with eminent speakers from Institutes of national repute.

(ii) Conducted state-level Hematology quiz as quizmaster under the aegis of the Indian Society of Haematology and Blood Transfusion in association with the Department of Pathology – August 2023.

8. **Number of Thesis Supervised MD/MS***

(a) **Dr Arvinder**. MD 3 thesis ongoing.

(i) MSC -CUP -Thesis supervised as co-guide and submitted.

(ii) PhD -CUP co-guide of 2 students.

(b) **Dr. Prashant Chhabra**. MD-Two Thesis ongoing.

(c) **Dr. Raksha Ranjan**. Thesis supervised MD/MS - Two.



9. **Any other achievements in number***





DEPARTMENT OF PEDIATRIC SURGERY

Name of the Department	Pediatric Surgery
Head of the Department	Prof. Ram Samujh

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr. Ram Samujh-MS, MCh (Ped. Surgery), FIAPS, FAMS FRCS (Ireland), FACS	Professor	21.8.2023
(b)	Dr. Navdeep Singh Dhoat-MS , DNB (Ped. Surgery), PDF (Ped. Surgery Minimal Invasive), FCLS, MNAMS	Associate Professor	07.12.2019
(c)	Dr. Saswati Behera MS, MCh (Ped. Surgery)	Assistant Professor	21.4.2022

2. Brief Introduction of the department.

(a) The Department of Pediatric Surgery is dedicated to providing specialized surgical care for neonates, infants & children. Our highly qualified team of Pediatric Surgeons and nursing officers focuses on the diagnosis, treatment, and management of a wide range of surgical conditions. We cater to various cases, including emergencies, trauma, semi-elective procedures requiring close monitoring, and planned surgeries. Committed to excellence, our department ensures that every child receives the highest quality of care tailored to their unique needs, serving patients from Punjab and neighboring states. Our goal is to enhance the health and well-being of our young patients while providing support to their families throughout the surgical experience.

(b) Services Available in the department.

- (i) OPD services- new cases, preoperative management, revisits, and follow-ups.
- (ii) Major OT services- Pediatric emergency, solid tumors, neurosurgery, urology reconstructive procedures, and thoracic surgeries. Availability of minimally invasive services like laparoscopy and cystoscopy procedures.
- (iii) Minor OT services- daily dressings, pediatric cannulation, and sampling, catheterization, urethral calibration, suturing under local anesthesia, CIC for bladder bowel management, and neurogenic bladders.
- (iv) Procedures- barium enema studies, distal colograms, micturating cystourethrograms, intralesional steroids, lymph node biopsy, enema programs for Incontinence etc.
- (v) IPD patients and their management.
- (vi) Pediatric emergency and trauma.
- (vii) Neonatal care- NICU and surgery of babies born out of inpatient mothers.

3. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
<u>International Conferences.</u>				
(a)	Dr. Saswati Behera	Chairperson and Organising committee	International Children Continence Society Course- 2023	PGIMER, Chandigarh



National Conferences.				
(a)	Dr. Ram Samujh	-Faculty -Chairperson	19 th National Conference of Pediatric Endoscopic Surgeons of India-	PESICON 2024 at Agra on March 7-10, 2024.
		-Faculty -Chairperson	Master Class in Pediatric Thoracic Surgery	(MCPTS 2024) JIPMER, Puducherry on March 29-31, 2024.
		-Faculty -Talk on "Pediatric Surgical Emergencies"	Annual Conference of Association of Emergency Medicine Educators Conference 2024	PGIMER, Chandigarh on March 16-17, 2024
		-Faculty -Chairperson	5 th Deccan Conference in Pediatric Urology	(DECCAN URO 2024) at Panjim, Goa from January 19-21, 2024
		-Chairperson	National Training Project, Practical Pediatrics Oncology	NTP-PPO Workshop, AIIMS, Bathinda on February 04, 2024
		-Moderator	16 th Pediatric Surgery Update 2024	Maulana Azad Medical College on February 8-11, 2024.
		-Moderator	World AMR Awareness Week 2023	AIIMS Bathinda on November 18-24, 2024.
		Case discussion on Hirschsprung's disease	Pediatric Surgery CME 2023 (online)	Wadia Children Hospital, Mumbai on October 5-8, 2023
		-Moderator	World AMR Awareness Week (WAAW 2023)	AIIMS, Bathinda on November 18-24, 2023
		-Faculty -Chairperson	11 th Annual Conference of Indian Society of Transfusion Medicine (ISTM)	Hyatt Regency Chandigarh on November 3-5, 2023
Received Fellowship of National Academy of Medical Sciences (FAMS)	63 rd Annual Conference of National Academy of Medical Sciences	(NAMSCON 2023) Ramaiah Medical College, Bengaluru on September 7-8, 2023.		



(b)	Dr. Navdeep Singh Dhoat	Resource Faculty	Pediatric EHPVOCON	SGPGI, Lucknow
		Chairperson	Fetal Surgery and Urinary Incontinence surgery Twin Conference 2024	Lilavati Hospital, Mumbai (Maharashtra)
		Faculty	World Plastic Surgery Day 2024	AIIMS Bathinda
(c)	Dr. Saswati Behera	Faculty	Society of Pediatric Urology (SPUCON)- IAPS 2023	KIMS CUDDLES Nagpur, (Maharashtra)
		Role of stationed lymph node dissection in Wilms Tumor- long oral paper presentation (oncology session)	Indian Association of Pediatric Surgeons	IAPSCON Aurangabad, (Maharashtra)
		Faculty	Pediatric Endoscopic Surgeons of India	(PESICON 2024) Agra, (Uttar Pradesh)

4. **Faculty achievements - awards, honours etc.**

(a) Number of Awards Received (only from registered professional organization of national and international repute) *-1(FAMS).

(b) Number of Recognition Received (only from registered professional organization of national and international repute)*-16 (Faculty, Moderator/chairperson in national Conferences).

Sr.	Name of faculty	Award/honour	Event	Organised by
(i)	Prof. Ram Samujh	Fellowship of National Academy of Medical Sciences (FAMS)	Annual Conference of National Academy of Medical Sciences (NAMSCON 2023)	Ramaiah Medial College, Bengaluru on September 7-8, 2023.

5. **Research activities undertaken in the department.**

Sr.	Name & designation of PI	Title of the project	Source of support Intramural/ extramural	Status (ongoing/ completed)	Budget
<u>Projects Sanctioned.</u>					
(a)	Dr. Ram Samujh (Co-PI)	Incidence of perioperative adverse events in overweight and obese children in India- a prospective observational multi centric study.	Intramural	Ongoing	-
<u>Projects Submittedu.</u>					
(a)	Saswati Behera	An Ambispective study to estimate the disease burden and factors affecting congenital anomalies in Punjab and adjoining regions of North India.	intramural	ongoing	Non-funded



(b)	Saswati Behera (Co-PI)	An Integrated Approach for the Management and Prevention of Dog Bite Injuries in Malwa Region of North India	Intramural	Ongoing	Non-Funded
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6. **Papers and Books/chapters published by the department.** The department needs to provide the following numbers for **individual faculty**:-

- (a) Research papers.
- (b) Book/Book chapter.
- (c) i10 Index*.
- (d) H index*.

*According to the Google Scholar database

(e) **Prof. Ram Samujh.**

- (i) **h-index:22.**
- (ii) **i10-index: 55.**
- (iii) **Citations:1564.**

(f) **Research papers.**

- (i) Reddy, M., Peters, N.J., Malik, M.A. *et al.* Thoracoscopic repair (TR) versus conventional open repair (COR) for esophageal atresia–tracheoesophageal fistula (TEF–EA): a pilot randomized controlled trial. *J Ped Endosc Surg* (2024). <https://doi.org/10.1007/s42804-023-00209-5>.
- (ii) Puri S, Sen IM, Bhardwaj N, Yaddanapudi S, Mathew PJ, Bandyopadhyay A, Samujh R, Dogra S, Kumar P. Postoperative outcome of neonatal emergency surgeries in a tertiary care institute—A prospective observational study. *Pediatric Anesthesia*. 2023 Dec;33(12):1075-82.
- (iii) Samujh R, Peters NJ, Singhai P, Bharadwaj NK, Kakkar N. Single-stage transanal endorectal pull-through for Hirschsprung’s disease: A retrospective study of surgical-pathological correlations and technical considerations. *Afr J Paediatr Surg* 2023;20:295-301.
- (iv) Vutukuru S, Peters NJ, Mewara A, Kaur S, Samujh R. Liver, and Mesenteric Hydatid Cyst in a Child—A Brief Report with Review of Literature. *Journal of Laboratory Physicians* 2023 Sept CC BY-NC-ND4.0 DOI: 10.1055/s-0043-1774379.
- (v) Janapareddy, K.K., Peters, N.J., Samujh, R. *et al.* Intralobar sequestration associated with gastric enterogenous cyst: gastric lung!! *Indian J Thorac Cardiovasc Surg* 2023;39:539–542. <https://doi.org/10.1007/s12055-023-01521-8>.
- (vi) Solanki S, Menon P, Reddy M, Parkhi M, Gupta K, Gupta PK, *et al.* Association between intraoperative anatomical variation and histopathological parameters in cases of ureteropelvic junction obstruction in children: A cross-sectional study. *Afr J Paediatr Surg* 2023;20:206-10.
- (vii) Reddy M, Solanki S, Menon P, Samujh R. Caecal Duplication Cyst in an Infant: A Rare Presentation. *Adv Pediatr Surg*. 2023 Jun;29(1):45-48. <https://doi.org/10.13029/aps.2023.29.1.45>.
- (viii) Peters NJ, Behera S, Bade R, Dogra S, Solanki S, Samujh R. Tracheoesophageal fistula with bilateral facial cleft: A rare occurrence. *J Indian Assoc Paediatr Surg* 2023;28:260-2.
- (ix) Kaur H, Kanaujia R, Singh S, Kajal K, Jayashree M, Peter NJ, Verma S, Gupta M, Ray P, Ghosh A, Samujh R. Clinical utility of time to positivity of blood cultures in cases of fungaemia: a prospective study. *Indian Journal of Medical Microbiology*. 2023 May 1;43:85-9.



- (x) Madan R, Goyal S, Dey T, Kapoor R, Ballari N, Soni SL, Samujh R et al. Profile of 193 pediatric cancer patients managed with radiation therapy: Challenges and lessons learned. *J Can Res Ther* 2023;19:757-61.
- (xi) C.R., V., Sharma, R., Jayashree, M. *et al.* Epidemiology, Clinical Profile, Intensive Care Needs and Outcome in Children with SARS-CoV-2 Infection Admitted to a Tertiary Hospital During the First and Second Waves of the COVID-19 Pandemic in India. *Indian J Pediatr* **90**, 131–138 (2023). <https://doi.org/10.1007/s12098-022-04283-0>.
- (xii) Dogra S, Peters NJ, Samujh R. Short Bowel Syndrome in neonates and early infancy. *J Neonatal Surg* [Internet]. 2023Jan.14 [cited 2024Jul.23];12:8.
- (xiii) NIHR Global Research Health Unit on Global Surgery; Hospital Principle Investigator. Strategies to minimize and monitor biases and imbalances by the arm in surgical cluster randomized trials: evidence from ChEETAh, a trial in seven low- and middle-income countries. *Trials*. 2023 Apr 5;24(1):259. doi: 10.1186/s13063-022-06852-2. PMID: 37020311.
- (xiv) Puri S, Bandyopadhyay A, Ashok V. Supplemental intraoperative crystalloids for pediatric postoperative nausea and vomiting—A systematic review and meta-analysis. *Pediatric Anesthesia*. 2023 ;33:38-45.
- (xv) Establishing multimodal pediatric oncology services in a new tertiary center of north India: challenges and strategies- accepted as an abstract for online publication in *Pediatric Blood and Cancer- SIOP* 2024).
- (xvi) Lymph node dissection in Wilms: Does a surgical template improve node harvesting? (accepted as an abstract for online publication in *Paediatric Blood and Cancer- SIOP* 2024).
- (g) **Dr. Navdeep Singh Dhoat**. Research papers:-
- (i) Gagneja G, Dhoat NS, Kanwal A. Pediatric Amikacin Therapy: Unveiling Adverse Drug Reactions through a Pharmacovigilance Study at AIIMS, Bathinda. *Iranian Journal of Pharmaceutical Sciences*. *Iran J Pharm Sci* 2024; 20:1-11.
- (ii) Dhoat P, Samujh R et al. Neonatal Type IV Jejuno-ileo-caecocolic atresia with Apple-peel appearance (IIIB, II) with an umbilical hernia. *J Indian Assoc Pediatr Surg*. *JIAPS_98_24* (submitted).
- (iii) Jalwal GK, Dhoat NS et al. Comparative study of two dose of nebulized dexmedetomidine for premedication in Paediatric patients: a prospective randomized study. *Cureus*. 2024 (submitted).
- (iv) Establishing multimodal pediatric oncology services in a new tertiary center of north India: challenges and strategies- accepted as an abstract for online publication (*Pediatric Blood and Cancer- SIOP* 2024).
- (h) **Dr. Saswati Behera (H index-2)**. Research papers:-
- (i) Tracheoesophageal Fistula with Bilateral Facial Cleft: A Rare Occurrence- *Journal of Indian Association of Pediatric surgeons* (Pubmed indexed) (Citation- Peters NJ, Behera S, Bade R, Dogra S, Solanki S, Samujh R. Tracheoesophageal fistula with bilateral facial cleft: A rare occurrence. *Journal of Indian Association of Pediatric Surgeons*. 2023 May 1;28(3):260.
- (ii) Peters NJ, Behera S, Gupta P, et al. Extragonadal Germ Cell Tumor with Hepatic Infiltration in a Child: Aberrant Somatostatin Receptors and the Diagnostic Conundrum. *J Indian Assoc Pediatr Surg*. 2024;29(2):162-164. doi:10.4103/jiaps.jiaps_167_23 (PubMed indexed).
- (iii) Establishing multimodal pediatric oncology services in a new tertiary center of north India: challenges and strategies- accepted as an abstract for online publication (*pediatric blood and cancer- SIOP* 2024).
- (iv) Lymph node dissection in Wilms: Does a surgical template improve node harvesting? (accepted as an abstract for online publication (*Pediatric Blood and Cancer- SIOP* 2024).

(j) **Book Chapters.**

(i) Khanna N, Peters N.J., Behera S, Krishna V.(2023) Management of Neuroblastoma. In: Madan R, Goel S, Malik S (eds) Evidence based practice in pediatric radiation oncology. Springer Nature, Singapore (Accepted).

(ii) Peters N.J, Behera S. Neuroblastoma (2023) Roy Choudhary S (Ed) In: Pediatric Surgery. Springer Nature, Singapore (Accepted).

7. **Any other achievements in number*- 1.** Successfully operated 1-day old low birth weight (1.3 Kg) baby, a case of Esophageal atresia with distal tracheoesophageal fistula. Baby is thriving well , gaining weight and tolerating orally (Picture enclosed).

(a) **Pediatric Surgery/01.** Treating team with Esophageal atresia baby.

(b) **Pediatric Surgery/02.** Honourable Director Dr. D.K. Singh encouraging the treating team at the time of discharge of Esophageal Atresia baby.





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First Successful Esophageal Atresia Surgery in a 1 - day old very low birth weight baby at AIIMS Bathinda

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DEPARTMENT OF PHARMACOLOGY

Name of the Department	Pharmacology
Head of the Department	Dr. Gagandeep Kwatra

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr Gagandeep Kwatra	Additional Professor	16.08.2023
(b)	Dr Mintu pal	Associate Professor	10.09.2021
(c)	Dr Abhinav Kanwal	Associate Professor	08.11.2019
(d)	Dr Rachna	Assistant Professor	22.07.2022
(e)	Dr Vikas Kumar	Assistant Professor	21.08.2023

2. Brief Introduction of the department.

(a) **Vision.** The vision for the department is to seamlessly blend pharmacology with patient care. The department has been successfully operating a Pharmacovigilance Program since 2021 and we have started the Antimicrobial Stewardship Program as well. We plan to initiate therapeutic drug monitoring as part of our clinical services while bolstering the integration of clinical pharmacology into our academic teaching curriculum. Furthermore, we are extending our initiatives to encompass the establishment of a Drug Information Unit in the near future with on-call consultations. Clinical pharmacology OPD consultation where clinicians can refer the patients for services such as suspected drug interactions, dose optimisation as per patient characteristics, Therapeutic drug monitoring-based dose recommendations and antimicrobial suggestions as per clinical and culture reports is planned. In addition to this, we are firmly committed to the creation of a state-of-the-art Pharmacogenomics Lab, which will significantly enhance our capacity in the realm of personalized medicine and patient care.

(b) **Patient-related services provided.**

- (i) Pharmacovigilance: ADR reporting, and Causality assessment.
- (ii) Antimicrobial stewardship and feedback with on-call consultations.
- (iii) Drug Information Service.
- (iv) Pharmacy Services.

3. Patient Care.

Sr.	Category	Number
1.	Any other special clinic/activity	<ul style="list-style-type: none"> Dr. Abhinav Kanwal, Dr. Mintu and Dr Vikas are involved in collection and reporting of ADRs from different patients attended OPD and IPD of AIIMS Bathinda. Coordinator and Deputy Coordinator ADR monitoring Center, AIIMS Bathinda, involved case processing of ADRS and ICSR Causality assessment of ADRs reported as a member of Causality Assessment Committee: Dr. Abhinav, Dr. Mintu, Dr. Vikas and Dr. Gagandeep . Dr. Rachna involved in AMS-related services (audit and feedback; on-call consultations, bedside rounds in various IPD wards/ICUs). Prescription audits under the purview of DTC committee have been started : Dr.Abhinav, Dr. Vikas and Dr. Gagan



4. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

(a) Number of Papers presented in International Conference* 1

<u>Sr.</u>	<u>Name of faculty</u>	<u>Title/Topic</u>	<u>Details of the Event</u>	<u>Organised by</u>
International Conferences.				
(i)	Dr. Rachna	Course Director and Faculty for "Critical Appraisal of Published Literature and Research Methodology Workshop"	28 th October 2023 and 4 th November 2023	Royal College of Physicians and Surgeons of Glasgow, UK
(ii)	Dr. Rachna	Containment of antimicrobial resistance in low- resource setting (AIM) 2023	24 th April to 12 th May 2023	Institute of Tropical Medicine, Antwerp, Belgium
National Conferences.				
(i)	Dr. Rachna	CME Speaker on Multidrug resistance: An emerging challenge and social emergency	27 th March 2024	Adesh University, Bathinda
(ii)	Dr. Rachna	Organized Webinar on Fungal Infections	19 th January 2024	SASPI, India
(iii)	Dr. Rachna	World AMR Awareness week (WAAW) 2024 as Organising Secretary	18 th -24 th November 2023	Pharmacology, AIIMS Bathinda
(iv)	Dr. Rachna	Central Vigilance Awareness Week as Organizing team	30 th October to 5 th November 2023	AIIMS Bathinda
(v)	Dr. Rachna	Faculty speaker at 39 th Annual National Workshop on Clinical Pharmacology (NWCP), 2023	16 th to 21 st October 2023	PGIMER Chandigarh
(vi)	Dr. Rachna	Faculty speaker at 5 th National Conference Antimicrobial Stewardship Practices in India, ASPICON 2023	30 th September to 1 st October 2023	AIIMS Jodhpur, Rajasthan
(vii)	Dr. Rachna	Organized Webinar on "Practice guidelines"	10 th August 2023	SASPI, India
(viii)	Dr. Mintu Pal	Research grant workshop	Organizer, and resource person (April 2023)	Research Cell, AIIMS Bathinda
(ix)	Dr. Mintu Pal	Research Methodology Workshop on Thesis Writing	Organizer, and resource person (September 2023)	Research Cell, AIIMS Bathinda
(x)	Dr. Mintu Pal	Workshop on Intellectual property rights & Patent and design filling	Organizer (January 2024)	Dean (Academics), AIIMS Bathinda
(xi)	Dr. Mintu Pal	Research Methodology on Thesis Writing	Organizer, and resource person (March 2024)	Research Cell, AIIMS Bathinda
(xii)	Dr. Mintu Pal	Workshop on Writing Research Paper	Organizer, and resource person (March 2024)	Research Cell, AIIMS Bathinda



(xiii)	Dr. Abhinav Kanwal	2nd Joint Annual Meeting of International Society for Heart Research and International Academy of Cardiovascular Society: Session chair & Judge	Feb 2024	
(xiv)	Dr. Abhinav Kanwal	Role of hospital administration and hospital pharmacy in tackling AMR in workshop on world AMR awareness week 2023: Resource faculty	Nov, 2023	Dept. of Pharmacology
(xv)	Dr. Abhinav Kanwal	Bench to bedside- Translational Research from Laboratory to patient care: Resource faculty	April, 2023	
(xvi)	Dr. Gagandeep Kwatra	Conducted a training workshop on GCP and Clinical Trial rules and regulations	28 September 2023	Adesh Institute of Medical Sciences, Bathinda.
(xvii)	Dr. Gagandeep Kwatra	Conducted a session on Assessment of Professionalism as Course faculty, Fellowship in Assessment of Health Professions	October 2023	Centre for Health Professions Education, Adesh University, Bathinda.
(xviii)	Dr. Gagandeep Kwatra	Conducted three days' workshop on Basic Medical Education Technologies at, along with the institutional MEU team from	October 16-18, 2023	AIIMS Bilaspur

5. **Faculty achievements - awards, honours etc.**

<u>Sr.</u>	<u>Name of faculty</u>	<u>Award/honour</u>	<u>Event</u>	<u>Organised by</u>
(a)	Dr Vikas Kumar	Awarded certificate for attending the event National Intellectual Property Awareness Program	National Intellectual Property Awareness Program	AIIMS Bathinda
(b)	Dr Vikas Kumar	Awarded Certificate of completion in Antimicrobial Stewardship	Certificate Course in Antimicrobial Stewardship Batch VIII	Public Health Foundation of India and Delhi Society for Promotion of Rational Use of Drugs



(c)	Dr. Rachna	Assistant Director of training committee and Webinar In-charge of Society of Antimicrobial Stewardship Practices in India (SASPI)	--	SASPI, India
(d)	Dr. Rachna	Section Editorial Member for Journal of Antimicrobial Stewardship Practices and Infectious Diseases (JASPI)	--	SASPI, India
(e)	Dr. Rachna	Course director of Critical Appraisal of Published Literature and Research Methodology for Clinicians	--	Royal College of Physicians and Surgeons of Glasgow, UK
(f)	Dr. Gagandeep Kwatra	Member of Education Committee, ACCP (American College of Clinical Pharmacology)		

6. Dr. Gagandeep, Dr. Abhinav and Dr. Vikas participated in the Online good clinical Practice program organized on 17 Feb, 2024 by SHODH Clinical Solutions, Dr Reddy's Lab and AIIMS Bathinda.

7. **Dr Abhinav Kanwal.**

(a) **List of patents.**

- | | |
|---|---------------|
| (i) Portable device for detection of ketones from urine | Indian Patent |
| (ii) Formulation and process for producing nanoparticles with regulating release characteristic for drug delivery purposes. | Indian Patent |
| (iii) Apparatus for developing polyherbal formulation for diabetic neuropathy | UK Patent |

(b) **Guest editor Dr. Abhinav Kanwal.** Serving as a Guest Editor for a Special Issue titled "Associations between Pollution and Heart Diseases". Medical Sciences international Journal.

(c) **Professional memberships.**

(i) **Dr. Vikas Kumar.**

- (aa) British Pharmacology Society.

(d) **Dr. Rachna.**

- (i) Foundation member of Society of Antimicrobial Stewardship Practices in India (SASPI).
(ii) Life member of Association of Physiologists and pharmacologists of India (APPI).
(iii) Life member of Society of Young Biomedical Scientists, India (SYBS).

(e) **Dr. Abhinav Kanwal.**

- (i) Annual Member, American Heart Association (USA).
(ii) Annual Members, Federation Pharmaceutical Federation.



- (iii) Life member, Indian Pharmacological Society (India).
 - (iv) Life member, Association of Physiologists and Pharmacologists of India.
 - (v) Life member, International Academy of Cardiovascular Sciences.
 - (vi) Life Member, Association of Pharmaceutical Teachers of India.
- (f) **Dr. Mintu Pal.** Life member of the Indian Pharmacological Society (IPS).
- (g) **Dr. Gagandeep Kwatra.**
- (i) Indian Pharmacological Society.
 - (ii) American College of Clinical Pharmacology.
 - (iii) Association of Physiologists and Pharmacologists of India.
 - (iv) Indian Society of Rational Pharmacotherapeutics.
 - (v) Academy of Health Professions Educators.
 - (vi) National Association of Pharmacology and Therapeutics.
 - (vii) Society of Antimicrobial Stewardship Practices in India (SASPI).

8. **Research activities undertaken in the department.**

Sr	Name & designation of PI	Title of the project	Source of support Intramural/ extramural	Status (ongoing/ completed)	Budget
Projects Sanctioned.					
(a)	Dr. Rachna,	Impact of multipronged interventions targeting healthcare professionals in reducing surgical site infections and identifying the challenges in adoption of these interventions-Implementation research	Funded by ICMR, New Delhi Central coordinating site: AIIMS Bathinda	Ongoing	1.5 crores
(b)	Dr. Rachna	Drug Information Service in a tertiary care hospital and its clinical importance: A prospective analysis.	Non-funded	Ongoing	--
(c)	Dr. Gagandeep Kwatra and Dr. Rachna,	Efficacy and safety of Imeglimin versus Sitagliptin as add-on therapy in type 2 Diabetes Mellitus patients not achieving glycaemic control on metformin: An open label, single centre randomized controlled trial	Non-funded Guide: Dr. Gagandeep Kwatra Co-guide: Dr. Rachna (MD Pharmacology student thesis)	Ongoing	--
(d)	Dr. Rachna,	Evaluation of financial burden in families of children with drug resistant epilepsy: A prospective Observational Study	Non-funded Guide: Dr. Arvinder, Head, Paediatrics Co-guide: Dr. Rachna (MD Paediatrics student thesis)	Ongoing	--



(e)	Dr Abhinav Kanwal	Exploring the role of mitochondria-targeted antioxidants against chemotherapy- induced side effects in rat heart	Principal Investigator ICMR-New Delhi	(On-going)	
(f)	Dr Abhinav Kanwal	Targeting endoplasmic reticulum- mitochondrial interplay for possible anticancer therapeutic outcome in breast cancer	ICMR-New Delhi CO-PI	Ongoing	
(g)	Dr Abhinav Kanwal	Understanding the functional role of sirtuins in high fat diet induced heart failure	ICMR-New Delhi Principal Investigator	(On-going)	
(h)	Dr Abhinav Kanwal	A Prospective Observational Study of Paclitaxel induced Peripheral Neuropathy in Patients on Cancer Chemotherapy.	AIIMS, Bathinda Non-funded Principal Investigator	(Ongoing)	
Projects Submitted.					
(a)	Co-I Dr Vikas Kumar and Dr. Gagandeep Kwatra	Safety and Tolerability of Amphotericin B formulations: An observational study	Intramural Project- AIIMS Bathinda	Submitted-under review	
(b)	Dr. Rachna, Assistant Professor,	Initiatives to enhance coverage and quality of early breast cancer screening through breast self-examination (BSE) in Malwa region of Bathinda, Punjab: A feasibility assessment and implementation research	Submitted to ICMR for review PI: Dr. M.P Singh, Addl.Prof. and Head, General Surgery, AIIMS Bathinda Co-PI: Dr. Rachna	Not yet approved	--
(c)	Dr. Mintu Pal Associate Professor	Neferine-Loaded Liposomes for the 4Prevention and Treatment of Alzheimer's Disease.	Extramural (ICMR)	--	
(d)	Dr. Mintu Pal Associate Professor	Prototype development for Differential Diagnosis of Muscle Invasive Versus Non-invasive Bladder Cancer using body fluid-based Stem Cell-derived Exosome in Geriatric Patients: A Promising Non-invasive Tool.	Extramural (ICMR)	--	



(e)	Dr. Mintu Pal Associate Professor	Pioneering burn wound biofilm management: AI-enabled SERS-based early detection and enhanced therapeutics with photodynamic ROS generation	Extramural (ICMR)	--	
Completed.					
(a)	Dr. Rachna, Assistant Professor,	A multicentric point prevalence survey of antimicrobial prescription, AMR, and HAI in tertiary care hospitals in India	Non-funded Site PI: Dr. Rachna Rohilla, AIIMS Bathinda Central coordinating site: PGIMER Chandigarh	Completed	--
(b)	Dr Abhinav Kanwal	Pediatric Amikacin Therapy: Unveiling Adverse Drug Reactions through a Pharmacovigilance Study at AIIMS, Bathinda	AIIMS, Bathinda	Principal Investigator (Completed)	
(c)	Dr Abhinav Kanwal	Research-based surveillance associated with adverse drug reactions of Covid-19 in the Indian Population	AIIMS, Bathinda	Principal Investigator (Completed)	
(d)	Dr Abhinav Kanwal	Health-related quality of life in patients with epilepsy receiving Anti-epileptic drugs in a tertiary care teaching hospital in north India: a cross-sectional study	AIIMS, Bathinda	Principal Investigator (Completed)	
(e)	Dr Abhinav Kanwal	To elucidate the functional role of sirt6 in knee osteoarthritis patients of Indian population.	ICMR-STs, New Delhi	Guide (Completed)	
(f)		Evaluation of MULMINA™ for its antifatigue and endurance capacity in rats subjected to treadmill exercise test	Industry sponsored	Principal Investigator (Completed)	



9. **Papers and Books/chapters published by the department.**

(a)	Vardhan G, Kumar V, Sahu PL, Prakash A, Nath UK, Handu S, Dhamija P. <u>Development and validation of a novel chiral chromatographic method for separation of lenalidomide enantiomers in human plasma.</u> Chirality. 2023;35(2):83-91.
(b)	Vardhan G, Jain N, Kumar V, Sahu PL, Prasad R, Nath UK, Handu S, Singh N, Dhamija P. PB2083: <u>In-vitro evaluation of lenalidomide enantiomers against human multiple myeloma cell line.</u> Hemasphere.2023 Aug 8;
(c)	Kumar V, Agrawal M, Kanwal A, Vardhan G. <u>COVID 19 pandemoniu plunders male fertility in SAR-CoV-2 infected male.</u> Medical Hypotheses. 2023 Nov 1;180:111184.
(d)	Katoch N, Gupta AK, Gulati R, Garg K, Kumar V. <u>Comparison of risk factors of mortality during the two coronavirus disease 2019 waves in Delhi, India.</u> Journal of Medicine in Scientific Research. 2024;7(1):11.
(e)	Sharma A, Vardhan G, Dhamija P, Kumar V. <u>Navigating the Antiretroviral Therapy Switch Conundrum: Unveiling the Dilemma of Drug Resistance and Disease Progression in HIV/AIDS.</u> Cureus. 2024 Mar;16(3).
(f)	Tiwari K, Kumar V, Kumar A, Sharma A, Vardhan G, Dhamija P. <u>Computational Analysis of Lenalidomide and Pomalidomide Enantiomers' Binding Interactions with Prostaglandin (PG)-Protein: Implications for Inflammatory Activity in Cancer.</u> Cureus. 2024 Feb;16(2).
(g)	Rohilla R, Chaudhary D, Agarwal A, Dhoat PS. Delayed Diagnosis of Vasopressor-induced Symmetrical Peripheral Gangrene in Septic Shock Patient. JASPI. 2024;2(1):36-40 DOI: 10.62541/jaspi013
(h)	Gupta M, Rohilla R, Gupta P et al. Nebulized dexmedetomidine for attenuating hemodynamic response to laryngoscopy and endotracheal intubation in adult patients undergoing surgeries under general anaesthesia: a systematic review and meta-analysis of randomized controlled trials. BMC Anesthesiology. 2023;23:406. doi: https://doi.org/10.1186/s12871-023-02366-9
(j)	Kaur A, Bhandari R.K, Rohilla R et al. Anti-tubercular therapy (ATT) induced thrombocytopenia: A systematic review. Indian J Tuberc. 2023;70(4):489-496. doi: https://doi.org/10.1016/j.ijtb.2023.04.029
(k)	Hedge N, Kumar A, Batra GK, Devnani M, Rohilla R et al. Rationalizing the use of COVID-19 questionable efficacy drugs in a low middle-income country: A hospital tocilizumab committee experience. J Assoc Physicians India. 2023; 71(3):18-24.
(l)	Divya KP, Kanwar N, Anuranjana PV, Kumar G, Beegum F, George KT. SIRT6 in regulation of mitochondrial damage and associated cardiac dysfunctions: A possible therapeutic target for CVDs. Cardiovasc Toxicol. 2024;1-24.
(m)	Soni D, Jamwal S, Chawla R, Singh SK, Singh D, Singh TG, Khurana N, Malik T, Vats G, Sharma P. Nutraceuticals unveiled a multifaceted neuroprotective mechanisms for Parkinson's disease: Elixir for the brain. Food Rev Int. 2024;1-24.
(n)	Arora A, Sharma R, Kanwar N, Gupta V, Kaur G, Bansal P, Kanwal A. Modulatory mechanism of NLRP3 inflammasome in heart diseases: "An enigma wrapped in a riddle". In: The NLRP3 Inflammasome: An Attentive Arbiter of Inflammatory Response. 2024;38.
(o)	Liu L, Kaur GI, Kumar A, Kanwal A, Singh SP. The role of gut microbiota and associated compounds in cardiovascular health and its therapeutic implications. Cardiovasc Hematol Agents Med Chem. 2024.
(p)	Gagneja G, Dhoat NS, Kanwal A. Pediatric amikacin therapy: Unveiling adverse drug reactions through a pharmacovigilance study at AIIMS, Bathinda: Amikacin induced adverse drug reaction in pediatric patients. Iran J Pharm Sci. 2024;20(1):1-11.
(q)	Kumar V, Agrawal M, Kanwal A, Vardhan G. COVID 19 pandemonium plunders male fertility in SAR-CoV-2 infected male. Med Hypotheses. 2023;180:111184.
(r)	Divya KP, Hari P, Kanwar N, Aggarwal N, Dhoat PS, Liu L, Kanwal A, et al. The role of the gut microbiome and the hepatic axis in the pathogenesis of metabolic syndrome and therapeutics. Adv Gut Microbiome Res. 2023.



(s)	Kanwal A, Liu L, Bansal PK, Kumar H, Singh SP. Apoptotic cell death in cardiomyocytes induced by hypoxia from cobalt chloride is hastened by SGLT-1 inhibition. <i>Appl In Vitro Toxicol.</i> 2023;9(3):116-124.
(t)	Borkar RM, Kanwal A, Raju B, Pulimamidi SS, Das AP, Agarwal SM, et al. A pharmacokinetic study to correlate the hypoglycemic effect of phlorizin in rats: Identification of metabolites as inhibitors of sodium/glucose cotransporters. <i>J Mass Spectrom.</i> 2023;58(8)
(u)	Patra J, Rana D, Arora S, Pal M, Mahindroo N. Falcipains: Biochemistry, target validation and structure-activity relationship studies of inhibitors as antimalarials. <i>Eur J Med Chem.</i> 2023 Apr 5;252:115299. doi: 10.1016/j.ejmech.2023.115299. Epub 2023 Mar 23. PMID: 36996716. (IF-6.0).
(v)	Matiyani M, Rana A, Pal M, Dokwal S, Sahoo NG. Polyamidoamine dendrimer decorated graphene oxide as a pH-sensitive nanocarrier for the delivery of hydrophobic anticancer drug quercetin: a remedy for breast cancer. <i>J Pharm Pharmacol.</i> 2023 Jun 5;75(6):859-872. doi: 10.1093/jpp/rgad036. PMID: 37134308. (IF-3.8).
(w)	Henry James, Gagandeep Kwatra, Kavita Mandrelle. Determinants of self-medication and other self-care practices for dysmenorrhea among students of health sciences: implications for education and safety. <i>International Journal of Life Sciences, Biotechnology and Pharma Research.</i> January 2024. 13(1): 528-38.
(x)	Henry James, Gagandeep Kwatra, Jasleen Kaur, Cristina Skrypyk, Reginald P. Sequeira. Determinants of drug-induced liver injury following therapeutic use of paracetamol in patients with genetic disorders: A systematic review. <i>International Journal of Life Sciences, Biotechnology and Pharma Research</i> 2024.13(2): 251-263.

10. **Book Chapters published.**

Dr. Rachna	"National List of Essential Medicines and Accessibility to antidiabetic drugs in India: A Review" under section: Diabetes and Public Health (Under publication with Jaypee Brothers Medical Publishers)
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11. **Other important Highlights of the department.** Training activities conducted, surgeries, camps, etc.

- (a) Training of students pursuing Diploma in Pharmacovigilance from MRSPTU at Department of Pharmacology: Dr. Abhinav, Dr. Vikas.
- (b) Pharmacovigilance awareness programme conducted in MRSPTU, Urban Health Center, Silver Oak School, Bathinda: All faculty.
- (c) Dr. Vikas: Orientation and training of MBBS interns on prescription writing.
- (d) Dr Rachna: Training session on antimicrobial susceptibility testing in Department of Paediatric surgery, AIIMS Bathinda.
- (e) Dr. Gagandeep Kwatra: Training session on Communication skills for Interns as part of the Orientation Programme for Interns.
- (f) Dr. Gagandeep Kwatra : Conducted training session on Communication skills for post-graduate students as part of the Orientation Programme for Interns.

12. **Number of Conference Organized* ONE (Photos below).**

13. **Number of Workshop Organized*.**

14. **Third National Pharmacovigilance Week 2023 at AIIMS Bathinda from 17th to 23rd September 2023** was organized by the department under the ADR Monitoring Centre. With Dr. Abhinav as coordinator and Dr. Mintu as Co-coordinator. All faculty participated as resource persons and conducted Awareness sessions, organized a student quiz and poster competition.

15. **“World AMR Awareness week (WAAW)”** was organized from 18th-24th November 2023 by the department, with Dr. Rachna as the Organizing Secretary and Dr. Gagandeep as Co-Organizing Chairperson. Dr. Abhinav, Dr. Mintu and Dr. Vikas served as resource persons and conducted the sessions.

16. **Number of Thesis Supervised MD/MS.** On-going thesis:-

(a) **Dr. Kanwarpreet Sadhu.**

(i) **Guide.** Dr. Abhinav Kanwal Co-guide : Dr. Mintu Pal.

(b) **Dr. Kriti Kalra.**

(i) **Guide.** Dr. Gagandeep Kwatra Co-guide : Dr. Rachna.

17. **Any other achievements in number.**
Pharmacology 01







DEPARTMENT OF PHYSICAL MEDICINE AND REHABILITATION (PMR)

Name of the Department	Physical Medicine and Rehabilitation (PMR)
Head of the Department	Prof (Dr) Akhilesh Pathak (HOD, Forensic Medicine and Toxicology and Dean Academics)

1. Faculty Details.

<u>Sr.</u>	<u>Name of faculty</u>	<u>Designation</u>	<u>Date of Joining</u>
(a)	Dr Chandrakant Pilia	Assistant professor	Nov 10 th , 2023

2. Brief Introduction of the department.

(a) Rehabilitation is the process of helping a person achieve the highest level of function, independence, and quality of life possible. Rehab does not reverse or undo the damage caused by disease or injury, but rather helps restore the person to optimal health, functioning, and well-being. Rehabilitate means to make able.

(b) Physical Medicine and Rehabilitation (PMR) is a medical specialty that involves restoring function for a person who has been disabled as a result of a disease, disorder, or injury.

(c) The Department of PMR started in AIIMS Bathinda after joining of faculty on Nov 10th, 2023. The PMR OPD services started on Nov 17th 2023. At present the PMR Department provides OPD based integrated, multidisciplinary care to patients with neurological (Pediatric and Adult) and musculoskeletal diseases with aim of recovery of the whole person by addressing the individual's physical, emotional, medical, vocational, and social needs.

(d) **Vision.** Centre *par excellence*, in improving quality of life of peoples suffering from neurological and musculoskeletal disorders, in teaching and in research.

(e) **Mission.**

(i) To provide Best and up-to-date knowledge-based Rehabilitation services.

(ii) Promoting Aesthetic, Rehabilitation research.

(iii) To Provide Quality Training in Rehabilitation to students.

3. Papers and Books/chapters published by the department.

(a) Detail of Book published with indexing database* - 00.

(b) Chapter in a book "IAPMR Textbook of Physical Medicine and Rehabilitation". Sahu S, Yadav SL, **Pilia C**, Gaikar R. Stroke Rehabilitation. 1st ed. Salubris: Noida; 2024.

(c) The department needs to provide the following numbers **individual faculty wise:-**

(i) Research papers - 00.

(ii) Book/Book chapter - 01.

(iii) i10 Index*- 00.

(iv) H index*- 00.



DEPARTMENT OF PHYSIOLOGY

Name of the Department	Physiology
Head of the Department	Dr Sonia Kochhar

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr Sonia Kochhar	Additional Professor	13 th August, 2019
(b)	Dr Meena Mirdha	Associate Professor	17 th August, 2019
(c)	Dr Dipti Magan	Assistant Professor	14 th August, 2019
(d)	Dr Sudhashekhar	Assistant Professor	21 st August, 2023

2. Brief Introduction of the department.

(a) **Vision.** Leadership in Education & Research to provide best of knowledge & skills.

(b) **Mission.** To establish a centre of excellence in medical education & research with an extended hand towards patient care.

(c) **Services provided.**

(i) **Neurophysiology lab.** We are providing Electroencephalography (EEG), Nerve conduction studies (NCS), and Visual evoked potential (VEP) Electromyography (EMG) & Repetitive nerve conduction (RNS) to the patients, and this year we have done (977) NCV, (151) EEG, (138) VEP & (13) EMG in collaboration with the clinical departments.

(ii) **Simulation Skill lab.** Already inculcated in the teaching curriculum to enhance skill-based learning for undergraduates, nursing and respiratory therapist students Academically, we introduced an integrated approach event to MBBS students.

(iii) **Research.** To motivate students for research projects.

(d) **Expansion planned.**

(i) **Clinical Services.** We want to expand our neurophysiology lab & establish a new autonomic function test lab that can provide more patient care and extra hands for the clinicians.

(ii) **Academics and teaching.** To provide integrative & skill-based learning.

(iii) **Research.** To promote neurophysiology research activity and various other intramural & extramural projects. Also, to develop a Sleep analysis lab, exercise physiology & yoga health clinics to use innovative skills in research.

3. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.



(a) Number of Papers presented in National Conference - 02.

<u>Sr.</u>	<u>Name & designation of faculty</u>	<u>Title/Topic</u>	<u>Details of the Event</u>	<u>Organized by</u>
National Conferences.				
(i)	Dr Sonia Kochhar Additional Professor	"Digital Health Initiatives-An Insight" Guest Lecture	As a part of Prakashmay Lectures on 27 th July 2023	AIIMS Delhi
(ii)	Dr Sonia Kochhar Additional Professor	"Overview of Sleep Physiology" Guest Lecture	CME cum Workshop conducted on World Sleep Day, 15 th March 2024	AIIMS Bathinda
(iii)	Dr Meena Mirdha Associate Professor	"Assessment of the level and incidence of insomnia and internet addiction"	India Sleep 2023 Conference on 1 st October 2023	AIIMS Kalyani

4. **Faculty achievements - awards, honours etc.**

<u>Sr.</u>	<u>Name & designation of faculty</u>	<u>Award/ honour</u>	<u>Event</u>	<u>Organised by</u>
(a)	Dr Sonia Kochhar	Resource Faculty (Expert Trainer)	Workshop in "Basics of Nerve Conduction Studies" at Infuse organized by Students on 24th Nov 2023	AIIMS Bathinda
(b)	Dr Sonia Kochhar	Resource Faculty	Research Methodology Workshop for PGs from 13-19th September 2023	AIIMS, Bathinda
(c)	Dr Sonia Kochhar	Chairperson	AIIMS PHYSIOCON Meet 2024 in Workshop for the session Scope for Environmental & Sports Physiology on 9-19 Feb 2024	AIIMS Bhubaneshwar

5. **Research activities undertaken in the department.**

<u>Sr.</u>	<u>Name & designation of PI</u>	<u>Title of the project</u>	<u>Source of support</u>	<u>Status (ongoing/ completed)</u>	<u>Budget</u>
<u>Projects Sanctioned.</u>					
(a)	Miss Hargun Kaur Khaira (Student) Guide: Dr Sonia Kochhar	"A cross-sectional study to evaluate the chronotype variations and its correlation with quality of sleep and anxiety among medical undergraduates"	ICMR STS 2022 approved [Proposal Reference ID: 2022-00437]	Completed (Grade B) Excellent	Funded approved by ICMR-STs, 2022
(b)	Sh. Heiminder (MBBS Student) Co-Guide Dr Sonia Kochhar	To study the association of non-alcoholic fatty liver disease with neuropathy in Prediabetic patients	ICMR STS 2023	Completed & submitted	Funded approved by ICMR-STs, 2023



(c)	PI- Dr M P Singh (Professor & Head) Co-PI Dr Sonia Kochhar (Additional Professor & Head)	Proposal to develop Minimal Access Surgery Training Centre (wet lab) at AIIMS Bathinda & a randomized controlled trial to evaluate the effect of structured training in wet lab with surface EMG to improve the ergonomics stress in laparoscopic procedures in surgical residents in collaboration with Dept. of Surgery		Ongoing	Non funded
(d)	Ms Anshika Garg(student) Guide: Dr Meena Mirdha	"Association of sleep quality with asthma control and asthma quality of life"	ICMR STS 2023 approved	Completed	Funded approved by ICMR-STs, 2022
(e)	PI- Dr Meena Mirdha Co-PI Dr Sonia Kochhar	"Martin-Gruber Anastomosis Prevalence in Healthy Subjects: An Electrophysiology Study"		Ongoing	Non funded
(f)	PI- Dr Dipti Magan	Effect of overweight on cognition functions.		Ongoing	Non funded
Projects Submitted.					
(a)	PI- Dr Gitanjali Co-PI Dr Sonia Kochhar	Empirical role of miRNA expression profiling and the plausible role of epigenetics mediated immunomodulation in patients with polycystic ovarian syndrome" submitted to SERB for approval.	SERB	Submitted & Approval Awaited	Yes

6. **Papers and Books/chapters published by the faculty.**

(a) **Dr Meena Mirdha.** Paper titled "The offline-to-online shift of medical education during COVID-19 pandemic: A mixed method study of medical teachers and students from India." accepted for publication in Indian Journal of Physiology and Pharmacology on 20th March 2024.

- (i) H index - 3.
- (ii) i10 Index - 2.

7. **Other important Highlights of the department.**

(a) Number of Conference Organized*.

(b) Number of Thesis Supervised MD/MS*.

- (i) **Dr Sonia Kochhar** as Co-Guide in MDS Thesis titled "Evaluation of Silicone Soft Reliner on the Obturator Prosthesis by assessing the Mastication Performance for different palatal defects after Post Mucormycosis Maxillectomy: Prospective Interventional Study" - Completed.

(ii) **Dr Sonia Kochhar** as Co-Guide in MD Thesis titled "Evaluating the Diagnostic Accuracy of High-Resolution Ultrasonography Compared to Nerve Conduction Studies for Detecting Peripheral Neuropathy in Adult Prediabetic Patients: An Observational Study" - Ongoing.

8. **Any other achievement.**

(a) **Dr Sonia Kochhar.**

- (i) Evaluation of one thesis for MD Course in Physiology 2023.
(ii) Appointed as Nodal officer for Nodal officer for Project VISHWAKARMA by DIPAS-PMSSY.
(iii) As Chief Vigilance Officer organized "Vigilance Awareness Week" with different competitions like quiz, poster, rangoli, nukkad natak & Walkathon related to the theme of the week from 30th Oct - 5th Nov 2023.



VIGILANCE AWARENESS WEEK



DEPARTMENT OF PSYCHIATRY

Name of the Department	Psychiatry
Head of the Department	Prof Gurvinder Pal Singh

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr Gurvinder Pal Singh	Prof and Head	29-4-2022
(b)	Dr. Jitender Aneja	Addl Professor	12-11-2019
(c)	Dr. Bharat Udey	Assistant Professor	13-12-2019
(d)	Dr. Jawahar Singh	Assistant Professor	30-8-2021

2. Brief Introduction of the department.

(a) The Department of Psychiatry started functioning after the inauguration of the outpatient services at AIIMS, Bathinda w.e.f. 23-12-2020. The manpower at the time of inception of psychiatry OPD consisted of four faculty members namely Dr Gurvinder Pal Singh as prof and HOD, Dr. Jitender Aneja, Additional Professor and Dr. Bharat Udey, Assistant Professor. Dr. Jawahar Singh Assistant Professor.

(b) Broadly we are catering to children, adolescents, adults and elderly patients with psychological issues or psychiatric disorders, substance use disorders and sexual disorders. In our outdoor clinic we are serving to patients with common mental disorders, severe mental illness, psychosomatic disorders, stress related problems, childhood disorders, geriatric problems, substance use disorders, marital and psychosexual disorders etc. We are seeing new patients as well as referred patients from other departments of AIIMS Bathinda and outside. We are providing pharmacotherapy, and psychological testing (presently limited) and therapies like psychoeducation, behavioral therapy, psychotherapy, abreaction treatments and teaching various relaxation exercises.

(c) Special clinics being run are: Drug Deaddiction Clinic (DDC) (Tuesday), Child and Adolescent Psychiatry Clinic (CAPC) (Monday), Geriatric Mental Health Clinic (GMHC) (Wednesday), Marital & Psychosexual Clinic (MPC; Wednesday), and Mindfulness clinic (Thursday).

3. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

S No	Name of faculty	Title/Topic	Details of the Event	Organised by
<u>National Conferences.</u>				
(a)	Jawahar Singh (15 th April 2023)	Recent Updates in Suicide: From Epidemiology to Interventions	Presented symposium at World Psychiatric Association Regional Congress (WPARC) Kolkata (WB) India	World Psychiatric Association
(b)	Jawahar Singh (19 th Jan 2024)	"Suicide Prevention in Low- & Middle-Income Countries: Review of Interventions & Suicide Prevention Programs"	Symposium at ANCIPS - 2024, Kochi (Kerala)	Indian Psychiatric Society, India.



(c)	Jawahar Singh (20 th Jan 2024)	Challenges in establishing a neuropsychiatry clinic in India: Experience from AIIMS New Delhi and Newer AIIMS"	Symposium at ANCIPS - 2024, Kochi (Kerala)	Indian Psychiatric Society, India.
(d)	Dr Gurvinder Pal Singh	The place of mindfulness based intervention (MBI) in Indian context	Presented symposium at World Psychiatric Association Regional Congress (WPARC) Kolkata (WB) India	World Psychiatric Association
(e)	Dr Gurvinder Pal Singh	Mindfulness intervention among persons with psychiatric disorders: past present and future	Diamond jubilee international conference on mental health 2023	PGIMER Chandigarh
(f)	Dr. Jitender Aneja	(i) Looking beyond horizon: Future of technology in Psychiatry- Big data & Machine Learning (ii) Rhythms of life and psychiatric disorders in children (iii) Invited lecture on "Faith Healing in Psychiatry" (iv) Quiz Master for IPS- Rajashtan Chapter Mid-term CME	(i) Mid-year Conference of Indian Psychiatric Society (ii) Biennial Conference of Indian Association for Child & Adolescent Mental Health (iii) Annual National conference of Society for Rural Mental Health (iv) IPS-Rajashtan Chapter Mid-term CME	Indian Psychiatric Society Indian Association for Child & Adolescent Mental Health Society for Rural Mental Health IPS- Rajashtan Chapter Mid-term CME

4. **Awards, honours etc.**

<u>Sr.</u>	<u>Name of faculty</u>	<u>Award/honour</u>	<u>Event</u>	<u>Organised by</u>
(a)	Prof(Dr) Gurvinder Pal Singh	Dr AK Kala award	North zonal annual conference of of Indian Psychiatry Society-NZ at Srinagar in Oct 2023	Indian psychiatric Society-north Zone
(b)	Prof(Dr) Gurvinder Pal Singh	Dr NN Wig Oration	North zonal annual conference of of Indian Psychiatry Society-NZ at Srinagar in Oct 2023	Indian psychiatric Society-north Zone
(c)	Dr. Jitender Aneja	Dr. J. C. Marfatia Award of Indian Psychiatric Society	Annual National Conference of Indian Psychiatric Society	Indian Psychiatric Society

5. **Research activities undertaken in the department.**

<u>Sr.</u>	<u>Name & designation of PI</u>	<u>Title of the project</u>	<u>Source of support Intramural/ extramural</u>	<u>Status (ongoing/ completed)</u>	<u>Budget</u>
<u>Projects Sanctioned.</u>					
(a)	Jawahar Singh (Co-PI)	To assess the effect of tobacco on cognitive functions among young adults.	Extramural - ICMR	Completed	50,000/-



(b)	Jawahar Singh (Co-PI)	Screening and diagnosis of depression: focus on genomic alterations and functional resonance imaging	Extramural – SERB/DST	Ongoing	17,000,00/-
(c)	Jawahar Singh (Co-PI)	Brain Region-Specific Multi-Omics Analysis of Major Depressive Disorders in the Indian Population Using Human-Induced Pluripotent Stem Cells: Investigating Resilience Factors to Identify Personalized Therapeutic Targets	Extramural - ICMR	Ongoing on other sites. Ethical approval pending from AIIMS Bathinda	24,990,367
(d)	Jawahar Singh (Co-PI)	Medical and psychiatric comorbidities among patients with alcohol dependence: A multicenter study from India.	Indian Psychiatric Society	Ongoing on other sites. Ethical approval pending from AIIMS Bathinda	5 Lakh (Approx)
Project Submitted.					
(a)	Dr Gurvinder Pal Singh (co-PI)	Artificial intelligence(AI) based automated early diagnosis of major depressive disorder using ophthalmic data: an observational study	Extra mural- DBT	Submitted	Approx. 30 lac

6. **Papers and Books/chapters published by the department.** Research papers:-

- (a) Udey B, **Singh J**, Bhatia J. Acute Dystonia Associated with Low-Dose Aripiprazole in a Male Child: A Case Report. J Clin of Diagnostic Res.2024; 18(4): VD01-VD02.
- (b) Aneja J, **Singh J**, Udey B. Prevalence, and clinical correlates of restless legs syndrome in psychiatric patients: A cross-sectional study from North India. Indian Journal of Psychiatry. 2024 Jan 1;66(1):58-66.
- (c) Jindal V, Udey B, Bhatia J, Singh J, Singh GP. Effect of Tobacco-Smoking on Cognitive Function among Young Adults in a Tertiary Care Hospital of North India-A Pilot Study. Journal of Advances in Medicine and Medical Research. 2023 Dec 30;35(24):260-6.
- (d) Singh S, **Singh J**, Shrivastava NP, Verma R. Can Quantitative Electroencephalography and Functional Near-Infrared Spectroscopy be a Good Guide in Kleine–Levin Syndrome? Neurology India. 2023 Nov 1;71(6):1250-3.
- (e) Jindal M, Chhetri A, Ludhiadch A, Singh P, Peer S, **Singh J**, Brar RS, Munshi A. Neuroimaging Genomics a Predictor of Major Depressive Disorder (MDD). Molecular neurobiology. 2023 Nov22:1-4.
- (f) Kumar, R., **Singh, J.**, & Chakladar, A. (2023). Coronavirus Disease 2019 Associated Obsessive-compulsive Disorder: A Case Report. Indian Journal of Clinical Psychiatry, 3(02).
- (g) Panda UK, Ra D, Sahoo SS, Kakkar R, **Singh J**. Interplay between tuberculosis, mental illness, and treatment compliance: An integrative literature review. Indian Journal of Tuberculosis. 2023 Nov 2.
- (h) Gupta M, **Singh J**, Udey B. Very high dose of pregabalin abuse: A case report. Indian Journal of Psychiatry. 2023 September 65(9): p 979-980.



- (j) Singh P, **Singh J**, Peer S, Jindal M, Khokhar S, Ludhiadch A, Munshi A. Assessment of Resting-state functional Magnetic Resonance Imaging Connectivity Among Patients with Major Depressive Disorder: A Comparative Study. *Annals of Neurosciences*. 2023 Aug 28:09727531231191889.
- (k) Mathur R, Chakladar A, Vishwakarma A, **Singh J**. Corpus Callosum Agenesis in a Child with Attention Deficit Hyperactivity Disorder with Prenatal Exposure to Sodium Valproate: A Case Report. *Indian Journal of Clinical Psychiatry*. 2023 Jul 17;3(01).
- (l) **Singh J**, Jain R, Bhargava R. Assessment of Platelets Monoamine Oxidase-B (MAO-B) Activity Levels and Cognitive Functions in Patients of Alcohol Dependence and Healthy Controls: A Comparative Study. *J Psych and Neuroche Res* 1 (2), 01. 2023;5.
- (m) Singh GP, Goyal LD, Hoovayya P, Udey B, **Singh J**, Choudhary A. The music playing intervention in a tertiary care institution in India: Health care workers experiences. **The International Journal of Social Psychiatry**. 2023 Apr 24:207640231169658-.
- (n) Grover S, Sahoo S, Mishra KK, Patnaik R, Nebhinani N, Bhattacharya R, **Aneja J**, Kalivayalil RA, Chaterjee SS, Menon V, Subramanyam AA, Punnosse VA, De'souza A, Mehra A, Subodh BN, Avasthi A. Prevalence of 'mixed features' in patients with First episode Depression: An Exploratory Multicentric Study. *Indian J Psychiatry* 2023;65:671-9.
- (o) Rajasekhar T, Naveen KH, Raghav P, **Aneja J**, Thirunavukkarasu P, Dutta G, et al. Exploring internet addiction and its associated factors among college students in Western Rajasthan, India: A mixed-methods study. *Indian J Psychiatry* 2023;65:839-52.
- (p) Singh GP, Gupta M, **Aneja J**. Comments on "a comparative study of sexual behavior, dysfunction, satisfaction, relationship, and sexual quality of life among treatment naïve and abstinent men (buprenorphine maintained) with opioid (heroin) dependence syndrome". *Indian J Psychiatry* 2023;65:892.
- (q) Gupta N, Kathiresan P, **Aneja J**. National Education Policy - A Holistic Development on Horizon. *J Indian Assoc Child Adolesc Ment Health*. 2023;19(2):123-5.
- (r) Menon V, Balasubramanian I, Rogers ML, Grover S, Lakdawala B, Ranjan R, Sarkhel S, Nebhinani N, Kallivayalil RA, Raghavan V, Mishra KK, **Aneja J**, Abhivant N, Deep R, Singh LK, De Sousa A, Nongpiur A, Subramanyam AA, Mohapatra D, Kar SK, Dhiman V, Kumar PNS, Shreekantiah U, Bhandari SS, Ransing R, Ramasubramanian V, Praharaj SK. Factor structure, reliability, and validity of the revised Suicide Crisis Inventory in major depression: A multicentric Indian study. *J Affect Disord*. 2023 Oct 26:S0165-0327(23)01289-2. doi: 10.1016/j.jad.2023.10.102.
- (s) Ghai P, Magan D, **Aneja J**, Sharma H, Chaudhary A. Effect of alcohol dependence on cognitive performance in middle-aged men: Preliminary results. *Indian J Physiol Pharmacol*. 2023;67:303-9. doi: 10.25259/IJPP_96_2023.
- (t) Singhai K, **Aneja J**, Swami M, Gehlawat P. Utilization of Cultural Formulation Interview to understand the factors affecting treatment adherence and help-seeking in mood disorders: A cross-sectional qualitative study from Western India. *Indian J Psychiatry*, 2024;66:179-90.
- (u) Menon V, Balasubramanian I, Rogers ML, Grover S, Lakdawala B, Ranjan R, Sarkhel S, Nebhinani N, Kallivayalil RA, Raghavan V, Mishra KK, **Aneja J**, Abhivant N, Deep R, Singh LK, De Sousa A, Nongpiur A, Subramanyam AA, Mohapatra D, Kar SK, Dhiman V, Kumar PNS, Shreekantiah U, Bhandari SS, Ransing R, Ramasubramanian V, Praharaj SK. Psychometric properties and factor structure of the Suicidal Narrative Inventory in Major Depression: A multicentric evaluation. *Asian J Psychiatry* 2024; 104002. <https://doi.org/10.1016/j.ajp.2024.104002>.



- (v) Pumariega AJ, **Aneja J**, Sharma P, Breton K, Thorton K, Gann S, Rothe E. Access to Child Psychotherapy in High and Low/Middle-income Nations: A cross-national perspective and potential approaches. J Indian Assoc Child Adolesc Ment Health. 2024;1-10. DOI: 10.1177/09731342241236297.
- (w) Singh A, Arun P, Singh GP, Kaur D, Kaur S. QEEG Predictors of Treatment Response in Major Depressive Disorder-A Replication Study from Northwest India. Clinical EEG and Neuroscience. 2024 Mar;55(2):176-84.
- (x) Singh S, Gupta A, Singh GP. Decision making and its correlates in recurrent depressive disorder. Indian Journal of Psychiatry. 2023 Nov 1;65(11):1158-64.
- (y) Selvapandiyan J, Das A, Singh GP. Research on psychotherapy in India: A systematic review. Indian Journal of Psychiatry. 2024 Feb 1;66(2):123-34.
- (z) Chaturvedi M, Bajaj MK, Singh GP, Mitra S. Positive well-being and usefulness of brief mindfulness-based intervention for pain in cancer. International Journal of Noncommunicable Diseases. 2023 Jul 1;8(3):137-43.
- (aa) Pathak A, Singh GP, Verma N. Advanced Compassionate Care for the Geriatric Population in India. The Primary Care Companion for CNS Disorders. 2023 Jun 13;25(3):47491.
- (ab) Singh GP. National Tele-Mental Health Programme formulation: A revolution in 21st century in India. International Journal of Social Psychiatry. 2023 May;69(3):803-4.
7. **Dr Jitender Aneja.**
- (a) i10 Index: 22.
(b) h-index: 16.
8. **Dr Jawahar Singh.**
- (a) i10 Index* 03.
(b) H index* 04.
9. **Dr Gurvinder Pal Singh.**
- (a) i10 Index*18.
(b) H index *14.
10. **Other important Highlights of the department.**
- (a) **Training activities conducted, surgeries, camps, etc.**
- (i) World mental health day celebrated on 10th October 2023.
11. **Number of Thesis Supervised MD/MS*.** Supervising three MD candidates:-
- (a) Title "A study to assess the prevalence of seasonality and its clinical correlates in patients presenting with major depressive disorders at a tertiary care hospital in north India". (**MD Psychiatry**).
- (b) Title "To study psychiatric morbidities in glaucoma patients diagnosed in a tertiary care facility in North-Western India" (**MD Ophthalmology**).
- (c) Title "To study the prevalence and type of sexual dysfunction in females receiving antidepressant medications" (**MD Psychiatry**).
- (d) Title "Quality of life, psychiatric morbidities and coping in the wives of men with alcohol use disorder: A cross-sectional study" (**MD Psychiatry**).



(e) Title - Prevalence of delirium tremens and its clinic-laboratoric correlates among patients of disorder due to use of alcohol admitted at a tertiary care hospital- a prospective observational study (**MD Psychiatry**).

12. **Any other achievements in number***

(a) **Dr Jawahar Singh.**

(b) Administrative responsibilities in the Department & institute are:-

(i) Taking care of all assigned departmental Clinical, research, teaching and administrative responsibilities.

(ii) Assistant Hostel superintendent of UG Boy's Hostel. (8th March 2022).

(iii) Member of Institute Drugs and Therapeutics Committee (DTC). (30th Nov 2022).

(iv) Member of Emergency medical team (AB/MSO/2023/301, 07/02/23).

(v) Member of Recruitment cell.

(vi) Member of Skill Lab Committee (AB/Proc.Cell/2023/1802, 17/03/23).

(vii) Member of Department Purchase Committee (DPC).

(viii) Member of Student Mess Committee (AIIMS/BTI/ADMIN/OO/1473; 20/6/2023).

(ix) Part of mentorship program of Institute, mentor of 10 UG students.

(x) Member of Committee for celebrations of Independence Day 2023 (AIIMS/BTI/Admin./Gen Corres/1538; 27/07/2023).

(xi) Member of Hospital Disaster Management Committee at AIIMS Bathinda (AIIMS/BTI/ADMIN/OO/1537; 27/08/2023).

(xii) Member of committee for vetting the Advertisement for Various Posts of Group B & C on Contractual Basis (AIIMS/Bathinda/Rect. Cell/763, dated 28/08/2023).

(xiii) Member of Board of Studies for the department of Psychiatry.

13. **Others.**

(a) Dr Gurvinder Pal Singh elected as President elect, Indian psychiatric Society-North Zone.

(b) Dr Jitender Aneja elected as Executive council member of Indian psychiatric society-north zone.

(c) Reviewers for many indexed journals such as World Journal of Social Psychiatry, BMC Pregnancy & Child Birth, British Medical Journal (BMJ) Open, PLoS One, Frontiers in Psychology, Indian Journal of Psychiatry, Indian Journal for Social Psychiatry, Journal of Indian Association for Child and Adolescent Mental Health, Journal of Human Behavior and Mental Health, Frontiers in Psychiatry, Indian Journal of Medical Research, Annals of National Academy of Medical Sciences and so on.





DEPARTMENT OF PULMONARY MEDICINE

Name of the Department	Pulmonary Medicine
Head of the Department	Dr Ramniwas

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr Ramniwas	Associate Professor	17.11.21

2. Brief Introduction of the department.

(a) The Department of Pulmonary Medicine aims to be one of its kind in the areas of pulmonary diseases, critical care, and sleep medicine with its services in the Malwa region. Our department's vision is centered around delivering innovative, cost-effective, and advanced respiratory care. Our commitment lies in consistently providing high-quality care marked by expertise and empathy to all segments of society.

(b) We address a broad range of chest-related ailments, including bronchial asthma, ABPA, COPD, pneumonia, tuberculosis, pleural diseases, lung cancer, pulmonary hypertension, pulmonary embolism, pulmonary vasculitis, occupational lung diseases, interstitial lung diseases, sleep disorders, and respiratory failure. Currently, the department offers procedures such as Percutaneous USG guided FNAC and lung biopsies, Tube thoracostomy, Pleural biopsies, Chemical Pleurodesis, Pulmonary Function Tests, CPET, 6MWT, Sleep studies, and Ultrasonography. Future patient services will encompass, FeNO testing, Body Plethysmography, Diffusion studies, Video Bronchoscopy, EBUS TBNA, Thoracoscopy, and Rigid Bronchoscopy. The department also plays a pivotal role in educating undergraduate and postgraduate students in the realm of pulmonary medicine and sleep disorders, with plans to introduce a DM program in Pulmonary, Critical Care and Sleep Medicine soon.

3. Research activities undertaken in the department.

Sr.	Name & designation of PI	Title of the project	Source of support <u>Intramural/ extramural</u>	Status <u>(ongoing/ completed)</u>	Budget
Projects Sanctioned/Ongoing.					
(a)	Dr. Ramniwas	To study 213 clinic-radiological profile of Allergic Broncho-Pulmonary Aspergillosis patients among asthmatics presenting to Department of Pulmonary Medicine AIIMS Bathinda	Intramural Nonfunded	Ongoing	Nil
(b)	Dr. Ramniwas	Effect of stubble burning on lung function amongst the general population of Malwa region- An analytical cohort study	Intramural Nonfunded	Ongoing	Nil
Projects Submitted.					
(a)	Dr Ramniwas	Impact of Agricultural Crop Residue Burning on Pulmonary Health and Systemic Inflammatory Responses in the Punjab Region: A Longitudinal Cohort Analysis	Extramural	Submitted	Submitted

4. **Papers and Books/chapters published by the department.** Detail of Paper published with indexing database*- 02:-

(a) Jain P, Kumar Chauhan N, Chakraborti A, Gupta MK, Dutt N, Jalandra RN, Elhence P, Rao M, Khera P, Garg PK, Pareek P, Vishnoi JR, Misra S. Programmed cell death ligand 1 (PD-L1) expression in non-small cell lung cancer: Findings from a tertiary care institute in western part of India. Indian J Tuberc. 2023 Oct;70(4):416-421. doi: 10.1016/j.ijtb.2023.01.001. Epub 2023 Jan 14. PMID: 37968047.

(b) Kumawat R, Nimesh A, Jalandra R, Agrawal S, Srinivas H, Ahirwar AK. Perception, acceptance, and adverse effects of COVID-19 vaccines: Insights from Indian population. J Family Med Prim Care. 2024 Mar;13(3):1062-1067. doi: 10.4103/jfmpc.jfmpc_1668_23. Epub 2024 Apr 4. PMID: 38736779; PMCID: PMC11086799.

5. The department needs to provide the following numbers for **individual faculty**:-

(a) **Dr Ramniwas, Associate Professor.**

- (i) Research papers - 02.
- (ii) Book/Book chapter - Nil.
- (iii) i10 Index*- 6.
- (iv) H index*- 7.

*According to the Google Scholar database

6. **Other important highlights of the department.**

(a) Training activities conducted- Training of Nursing Officers- such as performing Spirometry, Thoracocentesis, Inhaler techniques, etc.

(b) Camps - Free Spirometry camp periodically.

(c) Number of Conferences Organized*- One CME.

(d) Number of Workshop Organized*- One workshop.

(e) Patient awareness program - 2.



PULMONARY MEDICINE / 01 : SPIROMETRY FACILITY BEING CONDUCTED IN DEPARTMENT



PULMONARY MEDICINE/ 02: CPET



PULMONARY MEDICINE/ 03: SLEEP STUDY FACILITY BEING CONDUCTED IN DEPARTMENT ON REGULAR BASIS



PULMONARY MEDICINE/ 04: PATIENT AWARENESS PROGRAMME ON WORLD ASTHMA DAY



PULMONARY MEDICINE/ 05 - WORLD SLEEP DAY ,15 MARCH 2024



DEPARTMENT OF RADIATION ONCOLOGY

Name of the Department	Radiation oncology
Head of the Department	Dr Anil Kumar Goel

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr Anil Kumar Goel	Professor and Head	28-11-2023
(b)	Dr Sapna Marcus Bhatt	Additional Professor	05-12-2019
(c)	Dr Rohit Mahajan	Associate Professor	05-12-2019

2. Brief Introduction of the department.

(a) The Department of Radiation Oncology is providing state-of-the-art treatment to patients. LINAC was installed and commissioned, and treatment services to the patients were started on 1st August 2023. High energy linear accelerator is capable of performing high-end radiotherapy techniques like 3DCRT, IMRT, IGRT, Adaptive radiotherapy, SRS & SBRT. Also, the Brachytherapy machine has been installed and commissioned, and services were integrated in June 2024. Postgraduate teaching has also been started by the department.

(b) Facilities and services provided.

- (i) OPD services.
- (ii) Teleconsultations.
- (iii) Chemotherapy services.
- (iv) Pain and palliative services.
- (v) Hospital-based cancer registry.
- (vi) Population-based cancer registry.
- (vii) Day care procedures.
- (viii) Cancer screening and awareness programs.

3. Research activities undertaken in the department.

Sr.	Name & designation of PI	Title of the project	Source of support Intramural/ extramural etc	Status (ongoing/ completed)	Budget
Projects Sanctioned.					
(a)	Dr Anil Kumar Goel (PI)	Prevalence of HPV infection with oral cancer and its association with the p53 gene among patients diagnosed at a tertiary care center, in North India	Applied	Ongoing	Nil
(b)	Dr Anil Kumar Goel (co-PI)	Application of artificial Intelligence for differentiating bone tumors on medical imaging	Nil	Ongoing	Nil
(c)	Dr Anil Kumar Goel (co-PI)	India Stanford Quality Improvement Collaborative	Nil	Ongoing	Nil
(d)	Dr Sapna M. Bhatt (PI)	M-COREG: Cardio-Oncology Guidelines Formulation - Pilot Project By AIIMS, Bathinda	Nil	Ongoing	Nil
(e)	Dr Sapna M. Bhatt (co-PI)	Population-Based Cancer Registry	Nil	Ongoing	Nil



(f)	Dr Sapna m. Bhatt (co-PI)	STS (ICMR) Project: "Comparative Analysis Of Pesticide Toxicity With Altered Biochemical Parameters In Plasma Samples From Cancer Patients".	Nil	Ongoing	Nil
(g)	Dr Sapna M. Bhatt (co-PI)	MYTHS AND BELIEFS ABOUT CANCER CAUSATION AND PREVENTION".	Nil	Ongoing	Nil
(h)	Dr Sapna M. Bhatt (co-PI)	EFFECT OF VITD + CALCIUM ON METASTATIC BONE LESIONS	Nil	Ongoing	Nil
(j)	Dr Rohit Mahajan (PI)	Prevalence of mental health disorders in Head and Neck cancer patients.	Nil	Ongoing	Nil
(k)	Dr Rohit Mahajan (PI)	Quality of life in adults with advanced and metastatic head and neck cancer on multi-agent chemotherapy: A prospective observational study. (CI)	Nil	Ongoing	Nil
(l)	Dr Rohit Mahajan (co-PI)	Comparative Analysis of Pesticide Toxicity with Altered Biochemical Parameters in Plasma Sample from Cancer Patients.	Nil	Ongoing	Nil
(m)	Dr Rohit Mahajan (co-PI)	Effectiveness of structured health intervention on mouth self-examination in a tertiary care hospital of North India.	Nil	Ongoing	Nil
(n)	Dr Rohit Mahajan (co-PI)	M-COREG: Cardio-Oncology guidelines formulation - a pilot project by AIIMS, Bathinda.	Nil	Ongoing	Nil
(o)	Dr Sapna M. Bhatt(PI) Dr Anil Kumar Goel (co-PI) Dr Rohit Mahajan (co-PI)	Comparative evaluation of three weeks versus one-week adjuvant post-operative radiotherapy regimens in breast cancer patients using intensity-modulated radiotherapy techniques: A Randomized controlled trial (Dr. Sivaranjani JR radiation oncology)	Nil	Ongoing	Nil
(p)	Dr Anil Kumar Goel (PI) Dr Sapna M. Bhatt (co-pi) Dr Rohit Mahajan (co-PI)	Comparative Evaluation of Accelerated Radiotherapy with Concurrent Chemotherapy versus Conventional Fractionation Chemoradiotherapy in head and Neck Cancers Using Volumetric Modulated Arc Therapy: A Prospective Randomized Controlled Trial (Dr Sneha Bose JR radiation oncology)	Nil	Ongoing	Nil
(q)	Dr Sapna M. Bhatt (co-PI)	Role of sentinel lymph node biopsy using methylene blue dye in detecting axillary metastasis in patients of clinically node-negative breast cancer (Dr Umang JR general surgery)	Nil	Ongoing	Nil



4. Papers and Books/chapters published by the faculty.

- (a) Jain S, Goel A. Predictive and Prognostic Molecular Markers of Oral Cancers and Potential Therapeutic Agents Targeting These Markers. Indian journal of biochemistry. 2024.
- (b) Marcus S, Mahajan R. The Impact of COVID-19 on Radiation Oncology and Cancer Care. In: Verma M, Sahoo SS, Garg P, Kishore J, editors. Clinics in COVID Pandemic. New Delhi: Century Publishers; 2022.p. 228-237.
- (c) **Marcus S**, Bhatti S, Suri O. Staging bone scan referral criteria for carcinoma prostate in Indian population-guidelines need a revisit? A Retrospective Study from a tertiary Care teaching hospital in Malwa region.
- (d) Nagpal P, Bagla M, **Mahajan R** et al. Awareness of Oral Cancer among Residents of Chandigarh. J Postgrad Med Edu Res 2022;1-4.
- (e) Singh B, Singh G, Oinam AS, Singh M, Katake A, Kumar V, **Mahajan R**. Radiobiological modelling of radiation induced acute skin toxicity (dermatitis): A single institutional study of breast carcinoma. Ahead of print. J Can Res Ther 2022 DOI: 10.4103/jcrt.jcrt_1844_21.
- (f) Jasani Avni, Jain Shilpa, Goel Anil, Rana Divyeshkumar, "Cytochrome C as a marker of Apoptotic Cell Death after Chemo-Radiotherapy in Locally Advanced Head and Neck Cancer Patients", IJMCR- May -2023, Volume – 6, Issue - 3, P. No. 62 – 77.

5. Other important Highlights of the department.

- (a) Quiz competitions and poster competitions were organized for MBBS students for cancer awareness. A talk on oral cancer awareness was given to MBBS students and the general public in surrounding areas of the Institute. (World Cancer Day, 4th Feb, 2024).
- (b) Hospital Based Cancer Registry was initiated in Jan 2024.
- (c) The Tumour Board was started in Jan 2024.
- (d) Project "PEHAL" continued to create cancer awareness among schools of Bathinda. Organized Hair Donation drive for cancer patients on 8th March 2024, started with faculty and students providing free wigs for young cancer patients.
- (e) Signed MOU with CANSUPPORT, provided free morphine, and started free palliative care services.
- (f) Started Radiation services (LINAC) on 1st August 2023.

6. Number of Thesis Supervised MD/MS*-2.

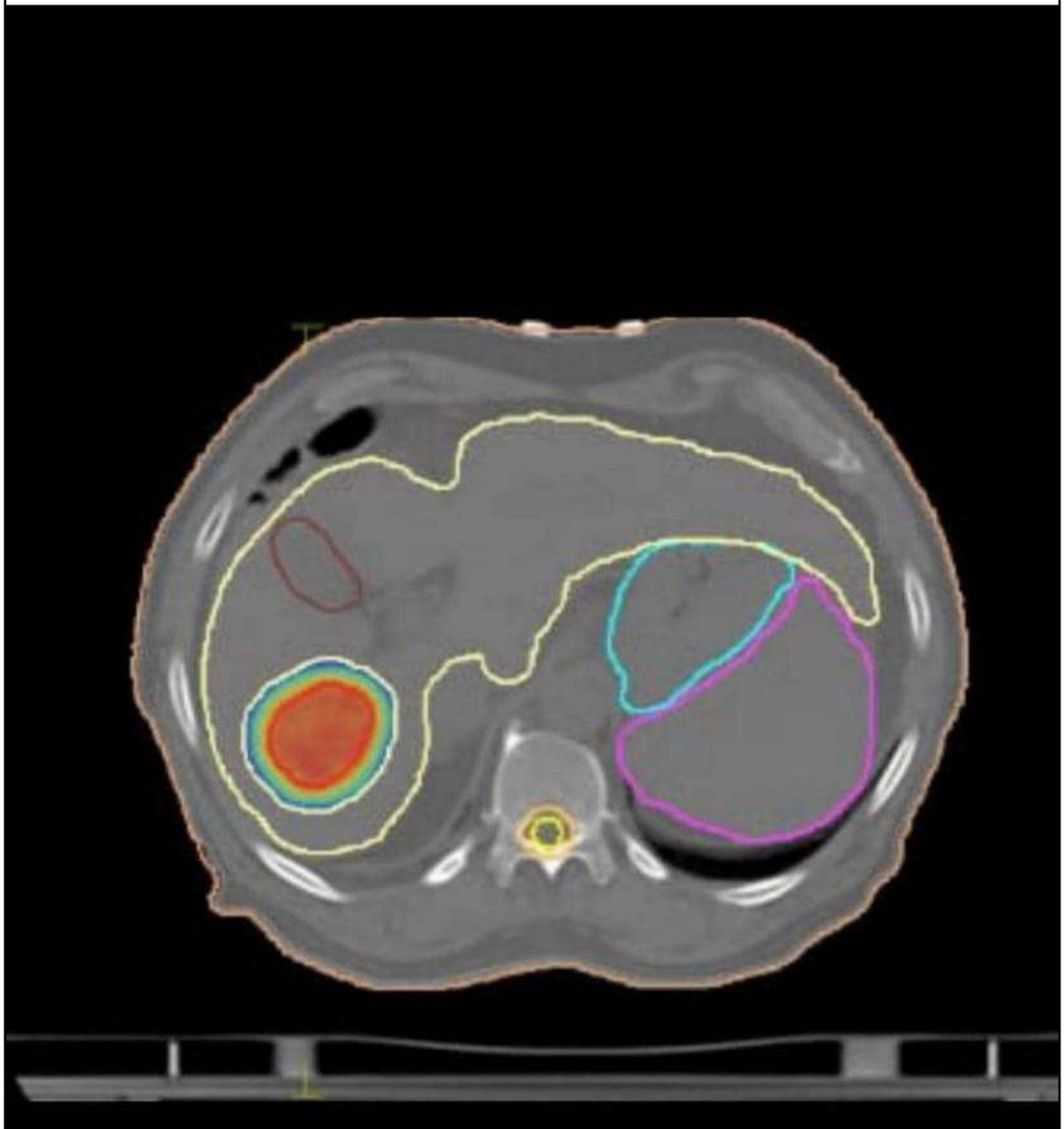
RADIATION ONCOLOGY/01



Pituitary adenoma SRS at Radiation Oncology department, AIIMS Bathinda.



Segment 7 lesion was ablated with almost no dose to normal liver (V15 Gy less than 500cc) and liver functions were normal). Patient is absolutely fine with no side effects...





DEPARTMENT OF RADIODIAGNOSIS

Name of the Department	Dept. of Radiodiagnosis
Head of the Department	Dr. Paramdeep Singh

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr. Paramdeep Singh	HOD & Additional Prof.	18/08/21
(b)	Dr. Harmeet Kaur	Associate Prof.	27/11/19
(c)	Dr. Navdeep Kaur	Associate Prof.	30/11/19
(d)	Dr. Sameer Peer	Assistant Prof.	21/04/22

2. **Brief Introduction of the department.** The Department of Radiodiagnosis is equipped with 4 ultrasound machines, 1 Digital Radiography unit, 3 portable X-ray machines, one digital fluoroscopy machine, one Mammography machine, 256-slice CT, and 3T MRI. It provides various diagnostic facilities to the patients, including high-end Ultrasonography, Mammography, Digital X-rays, CT, and MRI. The vision is to establish a state-of-the-art department with the aim of having recognition at national and international levels for excellence in medical imaging and interpretation, advances in imaging research, and academics. The department is involved in academics routinely, with a teaching program comprising weekly seminars, case discussions, and a journal club. The main goal is to provide optimal patient care in a friendly environment, to provide the highest standards of diagnostic imaging services at a reasonable cost, and to bring the department to par with the best in patient care, medical education, teaching, and basic research in the country.

3. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

(a) Number of Papers presented in National Conference* - 9.

Sr.	Name of faculty	Title/Topic	Details of the event	Organized by
<u>National Conferences.</u>				
(i)	Dr. Harmeet Kaur	(i) 'ACL tears' (ii) 'Talus & calcaneum' (iii) Poster Presentation topic 'Avulsion fractures of Extremities.'	National Conference of Musculoskeletal Society Midterm CME of Indian Musculoskeletal Society National Conference of IRIA' held at Vijayawada on Jan 2023	Indian Musculoskeletal Society on August 2023 at Lucknow MSS on October 2023
(ii)	Dr Navdeep Kaur	Role of ADC value and dynamic contrast-enhanced MRI in characterization of breast lesions. Dynamic CEMRI and MR spectroscopy in the detection and characterization of breast lesions	BISICON 2023 Shakti Summit 2023	Breast Imaging Society, India Indian Radiological Imaging Association (IRIA)



(iii)	Dr. Paramdeep Singh	(i) Pituitary stalk interruption syndrome with rare association (poster presentation)	National Conference of IRIA' held at Vijayawada on Jan 2023	Indian Radiological Imaging Association (IRIA)
		(ii) Feasibility of acetazolamide challenged ASL perfusion MRI in the assessment of cerebrovascular reserve in patients with moyamoya disease	National Conference of IRIA' held at Vijayawada on Jan 2023	Indian Radiological Imaging Association (IRIA)
		(iii) Dermatofibrosarcoma protuberans of the breast and its imaging features.	Shakti summit 2023	Indian Radiological Imaging Association (IRIA)
		(iv) Scrotal emergencies	IRIA-2023	Indian Radiological Imaging Association (IRIA)

4. **Faculty achievements - awards, honours, etc.**

Sr.	Name of faculty	Award/honor	Event	Organized by
(a)	Dr. Paramdeep Singh	Fellowship of Indian College of Radiology	Annual Conference of Indian Radiology and Imaging Association - 2024	IRIA
(b)	Dr Harmeet Kaur	Membership of National Academy of Medical Sciences	Annual conference of National Academy of Medical Sciences	National Academy of Medical Sciences
(c)	Dr. Paramdeep Singh	National Young Academic Excellence Award	IMA Medical Academic Award	Indian Medical Association (IMA)
(d)	Dr. Sameer Peer	Top 10 research articles in 2023	Awarded by the Journal of Clinical and Imaging Sciences (USA)	Journal of Clinical and Imaging Sciences (USA)

5. **Research activities undertaken in the department.**

- (a) Number of **projects sanctioned** with the name of Funding Agency with amount * 5.
- (b) Number of **Projects submitted** with the name of Funding Agency* :- 3.
- (c) Number of **Project undergoing** with the name of Funding Agency* :- 3.



Sr.	Name & designation of PI	Title of the project	Source of support Intramural/ extramural	Status (ongoing/ completed)	Budget
Projects Sanctioned.					
(i)	Dr Paramdeep Singh (Additional Professor) (PI)	Screening and diagnosis of depression: focus on genomic alterations and functional resonance imaging	Extramural (SERB grant)	Ongoing	~29 lacs
(ii)	Dr Paramdeep Singh (PI)	Role of MR elastography in pre-operative assessment of stiffness of pituitary macroadenoma	Extramural (ICMR grant)	Ongoing	27 lacs
(iii)	Dr Paramdeep Singh (CO-PI)	Implementation Research to enhance screening. Early diagnosis and initiation of treatment for oral, breast, and cervical cancer in selected districts of India.	Extramural (ICMR grant)	Ongoing	2.5 Cr
(iv)	Dr Paramdeep Singh (CO-PI)	Multi-omics approach to decipher the mechanism involved in Breast Cancer development, progression, and development of novel therapeutic strategies.	DST-purse	Ongoing	5 crores (approx.)
(v)	Dr. Navdeep Kaur (Associate Prof.) (Co-PI)	Volumetric upper airway analysis using two-dimensional cephalograms.	Extramural (ICMR grant)	Ongoing	22.5 lacs
Projects Submitted.					
(i)	Dr Harmeet Kaur	Study to assess safety and clinical-radiological outcome of indigenously developed Growth Factor Concentrate and Platelet-Rich Plasma for the treatment of Knee Osteoarthritis: Randomized controlled trial	Extramural (SERB POWER)	Decision is awaited	
(ii)	Dr. Navdeep Kaur (Associate Prof.) (Co-PI)	3D cephalometric analysis comparison in adult human subjects based on MRI and CT imaging modalities".	Extramural (SERB grant)	Completed	
(iii)	Dr. Navdeep Kaur (Associate Prof.) (Co-PI)	Can ultrasound-based cortical bone thickness be used as a screening tool for diagnosing osteoporosis?	Extramural (ICMR grant)	ICMR submitted	

6. **Non - funded ongoing projects (Co-PI).**

- (a) Prevalence and outcomes of comorbidities in patients with connective tissue disorders.
- (b) To study the clinical features associated with paraquet poisoning with a special focus on pulmonary and cardiovascular system disorders and associated outcomes.



7. Papers and Books/chapters published by the department.

- (a) **Kaur H**, Tiwari P, Bansal N. Plantar Fasciitis with Chronic Baxter's Neuropathy Causing Hindfoot Pain-A Case Report. *Journal of Orthopaedic Case Reports*. 2024 Feb;14(2):150.
- (b) Kaur N, Kaur A, **Singh P**, **Kaur H**, Peer S, Sahoo SS. Pulmonary mucormycosis as a presentation of COVID-19: Case series. *Indian Journal of Tuberculosis*. 2024 Feb 20.
- (c) Raj A, **Kaur H**, Mangla L, Madaan S. Coexisting bilateral ciliochoroidal effusion syndrome and an isolated cytotoxic corpus callosum lesion in dengue fever. *BMJ Case Reports CP*. 2023 Dec 1;16(12):e253147.
- (d) Bansal S, Chojer P, **Kaur H**, Poonia K. Bilateral en coup de sabre morphea in a male child: A rare presentation. *Pediatric Dermatology*. 2023 Nov;40(6):1152-4.
- (e) Athwal A, Mahindra P, Garg R, Tiwari P, **Kaur H**, Jaura SS. Early Changes in the Bone Mineral Density on Dual-energy X-ray Absorptiometry Scan of Patients Undergoing Primary Cemented Total Knee Arthroplasty: A Prospective Cohort Study. *Journal of Arthroscopy and Joint Surgery*. 2023 Apr 1;10(2):80-4.
- (f) Ansari EY, Tiwari P, **Kaur H**, Singh N. Large soft-tissue mass in the extremity is not necessarily sarcoma: A case report of a giant lipoma of the thigh. *Journal of Datta Meghe Institute of Medical Sciences University*. 2023;18(1):97-9.
- (g) Jaura SS, Tiwari P, Singh N, **Kaur H**. Reconstruction of posterior dislocation of the sternoclavicular joint with nonabsorbable No. 5 ethibond sutures. *Journal of Datta Meghe Institute of Medical Sciences University*. 2023;18(1):100-3.
- (h) Mir M, Jain J, Kumar P, Shergill J, **Kaur H**. Cutis Verticis Gyrate: Clinical Features, Diagnosis and Management. 2023:101-18.
- (j) **Kaur H**, Garg N, Tiwari P, Arora S. A soft tissue sarcoma of thigh presenting with an extensive heterotopic ossification - A rare case report. *Journal of Orthopaedic Reports*. 2023 Jun;2(2):100144.
- (k) P Tiwari, **H Kaur**, N Singh, N Bansal. Fixation of an ipsilateral bicondylar Hoffa's fracture via medial para patellar approach using multiple screws-A case report. *Journal of Orthopaedic Reports*. 2023; 2(1), 100125.
- (l) **Kaur N**, Kaur A, **Singh P**, **Kaur H**, **Peer S**, Sahoo SS. Pulmonary Mucormycosis as a presentation of COVID-19 – Case series. *Indian Journal of Tuberculosis* 2024.
- (m) Kaur A, Madhukar M. Dhoat PS, **Kaur N**. Anthropometric Indices and its Association with Hypertension in Indian Population: A Study from Tertiary Care Center of North India. *Journal of Pharmacy and Bioallied Sciences*. 2023;15: S312-S314.
- (n) Ranjan J, Wander A, **Kaur N**, et al. (March 04, 2024) Atypical Presentation Resembling Acute Leuko encephalopathy With Restricted Diffusion in Staphylococcus aureus Meningoencephalitis. *Cureus* 16(3): e55517.
- (o) Kaur A, **Kaur N**, Madhukar M. Assessment of Corrected QT Interval and QT Dispersion in Patients with Uncomplicated Metabolic Syndrome. *Journal of Pharmacy and Bioallied Sciences*. 2023;15(6):1097.
- (p) Kaur A, Dhoat PS, **Kaur N**, Sahoo SS. Knowledge, Awareness, and Determinants of Medication Adherence in Hypertensive Patients: A Hospital-Based Cross-sectional Study in North India. 2024;16:118-121.
- (q) **Peer S**, **Singh P**. Intraluminal arterial transit artifact as a predictor of intracranial large artery stenosis on 3D time of flight MR angiography: Expanding the application of arterial spin labeling MRI in ischemic stroke. *J Clin Imaging Sci*. 2023 Jun 17;13:17. doi: 10.25259/JCIS_27_2023.
- (r) **Peer S**, Gopinath R, Saini J, Kumar P, Srinivas D, Nagaraj C. Evaluation of the Diagnostic Performance of F18-Fluorodeoxyglucose-Positron Emission Tomography, Dynamic Susceptibility Contrast Perfusion, and Apparent Diffusion Coefficient in Differentiation between Recurrence of a High-grade Glioma and Radiation Necrosis. *Indian J Nucl Med*. 2023 Apr-Jun;38(2):115-124.



- (s) Meena AK, Wander A, S M, **Peer S**, Bansal A. Magnetic Resonance Imaging Pattern Recognition in Fucosidosis. *Indian J Pediatr.* 2024 Jan 22.
- (t) Dhoot SK, Lakhanpal V, **Peer S**, Prakash S. Clinical Spectrum of Ophthalmic Manifestations in Myelin Oligodendrocyte Glycoprotein-Associated Disease (MOGAD): A Comprehensive Case Report. *Ocul Immunol Inflamm.* 2024 Mar 4:1-7.
- (u) Wander A, Mahesan A, Meena AK, Manikandan S, **Peer S**, Singh P, Gulati S. Bartter Syndrome Unveiled: Unraveling the Masquerade of Neuroregression. *Indian J Pediatr.* 2024 Mar;91(3):314.
- (v) **Peer S, Singh P.** Intraluminal arterial transit artifact as a predictor of intracranial large artery stenosis on 3D time of flight MR angiography: Expanding the application of arterial spin labeling MRI in ischemic stroke. *J Clin Imaging Sci* 2023;13:17.
- (w) Wander A, Mahesan A, Meena AK, Manikandan S, **Peer S, Singh P**, Gulati S. Bartter Syndrome Unveiled: Unraveling the Masquerade of Neuroregression. *Indian J Pediatr.* 2024 Mar;91(3):314.
- (x) Chhetri A, Goel K, Ludhiadch A, **Singh P**, Munshi A. Role of Imaging Genetics in Alzheimer's Disease: A Systematic Review and Current Update. *CNS Neurol Disord Drug Targets.* 2024 Jan 12. doi: 10.2174/0118715273264879231027070642. Epub ahead of print. PMID: 38243986.
- (y) Khan R, Chaturvedi P, Sahu P, Ludhiadch A, **Singh P**, Singh G, Munshi A. Role of Potassium Ion Channels in Epilepsy: Focus on Current Therapeutic Strategies. *CNS Neurol Disord Drug Targets.* 2024;23(1):67-87.
- (z) Wander A, Meena AK, Torres A, **Peer S, Singh P**, Gulati S. Tongue and Hand Tremors in an Infant with Traumatic Brain Injury. *Indian J Pediatr.* 2023 Dec 30. doi: 10.1007/s12098-023-05004-x. Epub ahead of print. PMID: 38159149.
- (aa) Jindal M, Chhetri A, Ludhiadch A, **Singh P, Peer S**, Singh J, Brar RS, Munshi A. Neuroimaging Genomics a Predictor of Major Depressive Disorder (MDD). *Mol Neurobiol.* 2024 Jun;61(6):3427-3440. doi: 10.1007/s12035-023-03775-0. Epub 2023 Nov 22. Erratum in: *Mol Neurobiol.* 2023 Dec 11;: PMID: 37989980.
- (ab) Ludhiadch A, Sulena, Singh S, Chakraborty S, Sharma D, Kulharia M, **Singh P**, Munshi A. Genomic Variation Affecting MPV and PLT Count in Association with Development of Ischemic Stroke and Its Subtypes. *Mol Neurobiol.* 2023 Nov;60(11):6424-6440.
- (ac) **Peer S, Singh P**, Gupta R, Bhat P. "Brain on Fire": Hyperperfusion as a Hallmark of Hyperammonemic Encephalopathy. *Ann Natl Acad Med Sci (India)* 2023;59:225–228.
- (ad) **Singh P**, Singh J, **Peer S**, et al. Assessment of Resting-state functional Magnetic Resonance Imaging Connectivity Among Patients with Major Depressive Disorder: A Comparative Study. *Annals of Neurosciences.* 2023. doi:[10.1177/09727531231191889](https://doi.org/10.1177/09727531231191889).
- (ae) Ludhiadch A, Sulena, Singh S, Chakraborty S, Sharma D, Kulharia M, **Singh P**, Munshi A. Genomic Variation Affecting MPV and PLT Count in Association with Development of Ischemic Stroke and Its Subtypes. *Mol Neurobiol.* 2023 Jul 15. doi: 10.1007/s12035-023-03460-2. Epub ahead of print.
- (af) GBD 2021 Diabetes Collaborators. Global, regional, and national burden of diabetes from 1990 to 2021, with projections of prevalence to 2050: a systematic analysis for the Global Burden of Disease Study 2021. *Lancet.* 2023 Jul 15;402(10397):203-234. doi: 10.1016/S0140-6736(23)01301-6. Epub 2023 Jun 22.
- (ag) Shin YH, Hwang J, Kwon R, Lee SW, Kim MS; GBD 2019 Allergic Disorders Collaborators; Shin JI, Yon DK. Global, regional, and national burden of allergic disorders and their risk factors in 204 countries and territories, from 1990 to 2019: A systematic analysis for the Global Burden of Disease Study 2019. *Allergy.* 2023 Aug;78(8):2232-2254.



- (ah) GBD 2021 Anaemia Collaborators. Prevalence, years lived with disability, and trends in anaemia burden by severity and cause, 1990-2021: findings from the Global Burden of Disease Study 2021. *Lancet Haematol.* 2023 Jul 31:S2352-3026(23)00160-6. doi: 10.1016/S2352-3026(23)00160-6. Epub ahead of print.
- (aj) GBD 2019 Meningitis Antimicrobial Resistance Collaborators. Global, regional, and national burden of meningitis and its aetiologies, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet Neurol.* 2023 Aug;22(8):685-711. doi: 10.1016/S1474-4422(23)00195-3. PMID: 37479374.
- (ak) Lazarus JV, Han H, Mark HE, Alqahtani SA, Schattenberg JM, Soriano JB, White TM, Zelber-Sagi S, Dirac MA; GBD Fatty Liver Disease Sustainable Development Goal Collaborators. The global fatty liver disease Sustainable Development Goal country score for 195 countries and territories. *Hepatology.* 2023 Sep 1;78(3):911-928. doi: 10.1097/HEP.0000000000000361.
- (al) GBD 2021 Anaemia Collaborators. Prevalence, years lived with disability, and trends in anaemia burden by severity and cause, 1990-2021: findings from the Global Burden of Disease Study 2021. *Lancet Haematol.* 2023 Sep;10(9):e713-e734. doi: 10.1016/S2352-3026(23)00160-6. Epub 2023 Jul 31. Erratum in: *Lancet Haematol.* 2023:e796.
- (am) GBD 2019 Lip, Oral, and Pharyngeal Cancer Collaborators. The Global, Regional, and National Burden of Adult Lip, Oral, and Pharyngeal Cancer in 204 Countries and Territories: A Systematic Analysis for the Global Burden of Disease Study 2019. *JAMA Oncol.* 2023 Oct 1;9(10):1401-1416. doi: 10.1001/jamaoncol.2023.2960.
- (an) GBD 2019 IMID Collaborators. Global, regional, and national incidence of six major immune-mediated inflammatory diseases: findings from the global burden of disease study 2019. *EClinicalMedicine.* 2023 Sep 9;64:102193. doi: 10.1016/j.eclinm.2023.102193. PMID: 37731935; PMCID: PMC10507198.
- (ao) GBD 2019 Peripheral Artery Disease Collaborators. Global burden of peripheral artery disease and its risk factors, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet Glob Health.* 2023 Oct;11(10):e1553-e1565. doi: 10.1016/S2214-109X(23)00355-8. PMID: 37734799; PMCID: PMC10522777.
- (ap) GBD 2021 Rheumatoid Arthritis Collaborators. Global, regional, and national burden of rheumatoid arthritis, 1990-2020, and projections to 2050: a systematic analysis of the Global Burden of Disease Study 2021. *Lancet Rheumatol.* 2023 Sep 25;5(10):e594-e610. doi: 10.1016/S2665-9913(23)00211-4. PMID: 37795020; PMCID: PMC10546867.
- (aq) GBD 2021 Carbon Monoxide Poisoning Collaborators. Global, regional, and national mortality due to unintentional carbon monoxide poisoning, 2000-2021: results from the Global Burden of Disease Study 2021. *Lancet Public Health.* 2023 Nov;8(11):e839-e849. doi: 10.1016/S2468-2667(23)00185-8. Epub 2023 Oct 6. PMID: 37813118; PMCID: PMC10602911.
- (ar) GBD Spinal Cord Injuries Collaborators. Global, regional, and national burden of spinal cord injury, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet Neurol.* 2023 Nov;22(11):1026-1047. doi: 10.1016/S1474-4422(23)00287-9. Erratum in: *Lancet Neurol.* 2024 Apr;23(4):e8. PMID: 37863591; PMCID: PMC10584692.
- (as) Mensah GA, Fuster V, Murray CJL, Roth GA; Global Burden of Cardiovascular Diseases and Risks Collaborators. Global Burden of Cardiovascular Diseases and Risks, 1990-2022. *J Am Coll Cardiol.* 2023 Dec 19;82(25):2350-2473. doi: 10.1016/j.jacc.2023.11.007. PMID: 38092509.
- (at) GBD 2019 Asia and All Cancers Collaborators. Temporal patterns of cancer burden in Asia, 1990-2019: a systematic examination for the Global Burden of Disease 2019 study. *Lancet Reg Health Southeast Asia.* 2024 Jan 2;21:100333. doi: 10.1016/j.lansea.2023.100333. PMID: 38361599; PMCID: PMC10866992.



8. **Dr Paramdeep Singh (Additional Professor and HOD).**

- (a) Research papers - 25.
- (b) Book/Book chapter - 0.
- (c) i10 Index* - 46.
- (d) H-index* - 25.

9. **Dr Harmeet Kaur (Associate Professor).**

- (a) Research Papers - 10.
- (b) Book Chapters - 1.
- (c) I10 Index - 2.
- (d) H-index - 4.

10. **Dr Navdeep Kaur (Associate Professor).**

- (a) Research papers - 5.
- (b) Book/Book chapter - 0.
- (c) i10 Index* - 0.
- (d) H index* - 3.

11. **Dr Sameer Peer (Assistant Professor).**

- (a) Research Papers - 5.
- (b) Book Chapters - 0.
- (c) I10 Index - 1.
- (d) H-index - 4.

*According to the Google Scholar database

12. **Other important Highlights of the department.**

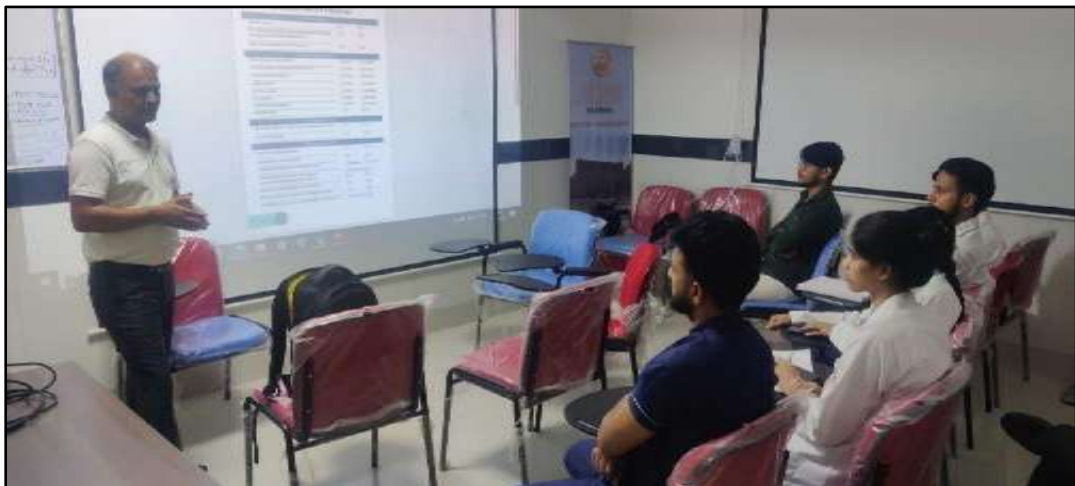
(a) **Training activities conducted, surgeries, camps, etc.**

- (i) Number of Conferences Organized*.
- (ii) Online CME on Cardiac MRI in collaboration with GE Healthcare.
- (iii) Number of Workshop Organized*.
- (iv) Hands-on workshop for Contrast emergencies.

13. **Number of Thesis Supervised MD/MS.**

- (a) **Dr Paramdeep Singh.** Guide to 2 Students, Co-guide to 2 Student.
- (b) **Dr. Harmeet Kaur.** Co-guide to 3 Students and guide to 1 student.
- (c) **Dr Navdeep Kaur.** Co-guide to 3 Students.
- (d) **Dr. Sameer Peer.** Co-guide to 3 Students.

14. **Any other achievements in number*** Radiology department is significantly contributing towards the Revenue generation for AIIMS Bathinda. Nearly half of the hospital revenue is contributed by the Radiology department and the department is planning to expand its services in interventional Radiology.





DEPARTMENT OF SURGICAL GASTROENTEROLOGY

Name of the Department	Surgical Gastroenterology
Head of the Department	Dr Gourav Kaushal

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr Gourav Kaushal	Associate Professor	06-09-2021

2. Brief Introduction of the department.

(a) The department envisions providing holistic care for patients with gastrointestinal disorders and cancers. Over the last two years, the department has emerged as a favored referral center for complex GI diseases and GI cancers and for handling complications related to surgeries in adjoining areas.

(b) The department has started advanced laparoscopic surgeries for esophageal cancers, colon-rectal cancers, and various other GI disorders. The department has emerged as a high volume hepato-biliary- pancreatic and esophageal surgery center.

(c) The department also started endoscopy and Fibroscan services last year. In collaboration with the Department of Radiology, the department is offering percutaneous GI interventions like PTBD, PCD, etc.

3. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
<u>National Conferences.</u>				
(a)	Gourav Kaushal	Role of PERT after pancreatic surgery	IASGCON, 2023, Hyderabad	Indian association of surgical gastroenterology (IASG) and Asian institute of gastroenterology.
(b)	Gourav Kaushal	Panel discussion- locally advanced gall bladder cancer	IASG mid-term meet	AIIMS Bhubaneswar

4. Papers and Books/chapters published by the department.

(a) Kaushal G, Anand S, Ranjan R, Bani R. (2023). Nutritional Management in the Compromised Gut: Short Bowel Syndrome, Enterocutaneous Fistula, and Stoma. *Journal of Nutrition Research*. 11(2): 38-46. https://doi.org/10.55289/jnutres/v11i2_23.20.

(b) Kaur, Bhanupreet; Samagh, Navneh; Paliwal, Shashank; Kaushal, Gaurav. Anaesthesia management of a patient with non-insulinoma pancreatogenous hypoglycaemia syndrome (NIPHS) – A case study. *Indian Journal of Anaesthesia* 67(10):p 944-945, October 2023. | DOI: 10.4103/ija.ija_1017_22.

- (i) Research papers: 2.
- (ii) Book/Book chapter: 0.
- (iii) i10 Index*: 2.
- (iv) H index*: 4.

*According to Google Scholar database

5. **Number of Thesis Supervised MD/MS*: Co guide- MD radiology student.**



DEPARTMENT OF SURGICAL ONCOLOGY

1. List of Faculty with designation.

Sr.	Name of the Faculty	Designation	Date of Joining
(a)	Dr Nikhil Garg	Associate Professor	20-01-2023

2. Brief description of the Department.

(a) **Vision.** Department of Surgical Oncology helps the medical field by educating the medical students to understand the clinical aspects of the disease. Surgical clinics helps in diagnosis, and management of the ailment. The medics will be able to perform in all the rare and difficult circumstances.

(b) **Mission.** The objectives of the department are to provide quality medical education and to refine undergraduate/postgraduate medical students to meet the country's need for highly qualified doctors and medical teachers.

(c) The aim is to serve patient needs by setting up the surgical oncology department with the advanced technologies to improve the results.

(d) The mission is to establish a centre of excellence in faculty and technician training, diagnosis and research.

3. Services Available in the department.

(a) **Outpatients' department.**

(b) **General OPD.**

- (i) GI ailment.
- (ii) Breast & Thyroid diseases.
- (iii) Lymphadenopathy/ surface swellings.
- (iv) GI and HPB cancer.
- (v) Esophagous Cancer.

4. Specialty Clinics/ services (Diagnostic and/or Therapeutic).

- (a) GI & HPB cancer clinic.
- (b) Breast & thyroid cancer clinic.
- (c) Head neck cancer clinic.
- (d) Colorectal cancer clinic.
- (e) Gynaecological cancers.
- (f) Chemotherapy.
- (g) Lung cancers.
- (h) Mediastinal Mass.
- (j) Testicular cancer.
- (k) Ovarian Cancer.

5. Surgeries offered by the surgical departments.

- (a) Laparoscopic surgery.
- (b) Onco surgery.
- (c) Sentinel Lymph node surgery.
- (d) Breast conservation and oncoplastic breast surgery.



6. **Research in the department.** Facilities available for the research:-
- (a) National Cancer Registry by NCDIR and ICMR.
 - (b) Dr Nikhil Garg, Dr Jaspreet Shergill and Dr Manjit Kaur.
7. **Expansion planned for the future.**
- (a) **Clinical Services.**
 - (i) To start Robotic Oncological Surgery.
 - (ii) To start ICG lymph node mapping.
 - (iii) To start organ preserving and fertility preserving surgeries.
 - (iv) To provide disease-oriented clinics.
 - (v) To begin day care surgeries.
 - (vi) To get facility for intra-operative diagnosis (imprint cytology and frozen section).
 - (vii) To set up a tumor board for planning of the treatment protocol of cancer patients.
 - (viii) To establish a specialized skill lab for high performance.
 - (ix) To set up a comprehensive training programme for UG/ PG students.
 - (x) To participate in webinars, scientific programmes of NABL accredited courses.



DEPARTMENT OF TRANSFUSION MEDICINE & BLOOD BANK

Name of the Department	Transfusion Medicine & Blood Bank
Head of the Department	Dr Sirat

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr Sirat	Assistant Professor Associate Professor	13/08/2021 22/07/2023

2. **Brief Introduction of the department.** Department of Transfusion Medicine and Blood Bank started its Blood Transfusion Services on Nov 23, 2022. Since then, all blood components including Packed red cells (PRBC), Fresh Frozen Plasma (FFP) and Random Donor Platelet Concentrates (RDPC) are being provided to IPD patients. Cryoprecipitate is also available for patients of Hemophilia and other blood dyscrasias. Fresh Frozen Plasma and Cryo Poor Plasma is routinely provided for patients of plasma exchange.

3. Patient related services.

- (a) Blood grouping of patients and donors.
- (b) Indirect Antiglobulin Test.
- (c) Direct Antiglobulin test.
- (d) Differential DAT for identification of IgG, IgA, IgM antibodies.
- (e) Antibody screening and identification.
- (f) Antibody profiling and titration for pregnant females.
- (g) ABO antibodies titres for renal transplant.

4. Department vision.

- (a) We aim to provide and maintain adequate supply of all blood components.
- (b) Encourage non remunerated voluntary blood donation.
- (c) We aim to increase participation in voluntary blood donation camps organised by local welfare societies, educational institutes and other institutions to decrease replacement donations.
- (d) The department intends to start plateletpheresis services for the provision of Single Donor Apheresis Platelets in the coming year.

5. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
National conferences				
(a)	Dr Sirat	Patient Blood Management	MAPICON-2023 21-24 September 2024	Association of Physicians of India (Malwa chapter)
(b)	Dr Sirat	Blood Component Therapy In Pediatric Oncology Practice	National Training Project- Practical Paediatric Oncology 4 th February 2024	Indian Academy of Pediatrics- PHO Chapter
(c)	Dr Richa, Dr Sirat	Role of Hemovigilance and Continuing Education in Optimising Peri-operative Blood requirement in Orthopedic surgeries	ISTM-CME National level CME	Indian Society of Transfusion Medicine



6. **Papers and Books/chapters published by the department.** The department needs to provide the following numbers **individual faculty wise:-**

- (a) Research papers.
- (b) Book/Book chapter.
- (c) i10 Index*.
- (d) H index*.

*According to Google Scholar database.

7. **Other important Highlights of the department.** Voluntary Blood Donation Camps organized by the Dept:-

Sr.	Blood Donation Camp	Date	No. of Donations
(a)	Firozpur Cantonment	13-06-2023	90
(b)	Navreet Sewa Society	19-09-2023	50
(c)	Sri Balaji Dham, Fazilka	19-11-2023	122
(d)	Kaljharani	08-12-2024	64
(e)	Bathinda Stadium	04-01-2024	10
(f)	In house Camp by Nursing Officers, AIIMS Bathinda	12-01-2024	30
(g)	Takhat Sri Damdama Sahib, Talwandi Sabo	17-01-2024	34
(h)	College of Management Gidderbaha	29-02-2024	20
(j)	Jain College, Raman Mandi	13-03-2024	54

8. Number of Thesis Supervised MD/MS*.

9. **Any other achievements in number***

(a) **New initiatives.**

- (i) **Management of ECMO patients-** freshly prepared leucoreduced Components/whole blood being provided for ECMO patients.
- (ii) **PRP- Platelet Rich Plasma (Autologus)** for patients of Orthopaedics, in Chronic Early OA, Tenosynovitis.
- (iii) **Hemovigilance rounds-** Weekly ward rounds conducted for hemovigilance to monitor proper storage, transfusion and handling of blood and components in the wards.

10. **Felicitation of voluntary blood donors** organised by the Department on August 11, 2023 to acknowledge and honor the regular voluntary donors for their selfless service to the society.







DEPARTMENT OF UROLOGY & RENAL TRANSPLANTATION

Name of the Department	Dept. of Urology & Renal Transplantation
Head of the Department	Dr. Kawaljit Singh

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr. Kawaljit Singh	Associate Professor & Head,	6/11/2019
(b)	Dr. Suresh Goyal	Assistant Professor	20/01/2023
(c)	Dr. Abhay Gaur	Assistant Professor	31/01/2024

2. **Brief Introduction of the department.** The Department of Urology at AIIMS started with the vision of becoming one of the best in the Country and matching with the world standards and making world-class urological services available at the doorstep of common people including the poorest of all.

3. Services Available in the department.

(a) **Outpatient department (OPD).** All Urological Cancers, Kidney, Ureter, and Urinary Bladder Stones, Urinary Tract Infections (UTIs), Stricture Urethra, Neurological Disorders of Bladder, Urinary Tract Trauma, Female Urological disorders, Paediatric Urological disorders, Neuro-urology and Renal Transplantation.

(b) **Specialty Clinics/ services (Diagnostic and/or Therapeutic).** Infertility Clinic, Stone Clinic, Oncology Clinic, Sexual Health Clinic and Hypospadias Clinic.

(c) **Procedures (Diagnostic and/or Therapeutic) offered by the department.** Uroflowmetry, Urodynamic Studies, Extracorporeal Shock Wave Lithotripsy (ESWL) and Office Based Cystoscopy with local based minor urological procedures.

4. Research activities undertaken in the department.

Sr.	Name & designation of PI	Title of the project	Source of support Intramural/ extramural	Status (ongoing/ completed)	Budget
<u>Projects Sanctioned.</u>					
(a)	Dr Kawaljit Singh	"Expression analysis of epigenetic modifiers (LSD2 and SMYD1) in Urinary bladder cancer and their prognostic implications"	Nil	Ongoing	Nil
(b)	Dr Kawaljit Singh	To Study the Correlation between Stress, Depression and Anxiety with Male Infertility	Nil	Ongoing	Nil
(c)	Dr Kawaljit Singh	"Expression Analysis of Epigenetic modifiers, LSD2 (Histone demethylase) and SMYD1 (Histone methyltransferase) and Its Prognostic Significance in Prostate Cancer"	Nil	Ongoing	Nil



(d)	Dr Kawaljit Singh	Investigating the Regulatory Network of NLRX1, TRAF6, and NF- κ B Expression and their prognostic implications in Prostate Cancer	Nil	Ongoing	Nil
(e)	Dr Kawaljit Singh	Clinical Efficacy of Tamsulosin and Solifenacin Combination vs Mirabegron and Silodosin Combination in Double J Ureteral Stent Related Symptoms: A Randomised Controlled Trial.	M.Ch. Thesis	Ongoing	Nil
(f)	Dr Suresh Goyal	A Prospective Multi-Institutional assessment of Prostate Biopsy practices in India	Nil	Completed	Nil
Projects Submitted.					
(a)	Dr Suresh Goyal	A Multi-Institutional Prospective Observational Study of Ureteric Strictures after Ureteroscopy for Urolithiasis.	Nil	Ongoing	Nil

5. **Papers and Books/chapters published by the department.**

(a) **Letter to editor.** Prospective multicentre evaluation of Pain before and after removal of Non obstructing Renal Calculi: A CoRE initiative Journal of Urology.

(b) Detail of Book published with indexing database*.

(c) The department needs to provide the following numbers individual faculty wise:-

- (i) Research papers.
- (ii) Book/Book chapter.
- (iii) i10 Index*.
- (iv) H index*.

*According to Google Scholar database

<u>Faculty Name</u>	<u>Research papers</u>	<u>Book Chapter</u>	<u>i10 Index</u>	<u>H index</u>
Dr Kawaljit Singh	1	Nil	4	7
Dr Suresh Goyal		Nil	0	4
Dr Abhay Gaur	1	Nil	0	3

(d) Please include research articles and chapters only during the time period (April 1st 2023- March 31st 2024).

(e) Avoid duplication, i.e., in case of multiple faculty members involved on the same paper in the dept, please provide it as a single entry.

6. **Other important Highlights of the department.** Training activities conducted, surgeries, camps, etc.

(a) Inauguration of NSDC International Skill Center at AIIMS Bathinda: Dr Kawaljit Singh Kaura as Nodal Officer.

- (b) Organised the visit of Sh. Gajendra Singh Shekhawat, Hon'ble Union cabinet Minister for Jal Shakti to NSDC International Skill Center and AIIMS Bathinda.
- (c) Rare Surgeries were performed in the Department of Urology and Renal Transplantation.
- (d) Conducted Quiz at NZUSI - Mid-term CME held in Ludhiana 2023 By Dr Suresh Goyal
- (e) Invited to host PG Quiz at NSUSI Zonal Conference in 2023 held in Varanasi, UP By Dr Suresh Goyal.
7. **Number of Thesis Supervised MD/MS***
- (a) Dr Kawaljit Singh: 1 (Supervisor: M.Ch Urology Thesis).
- (b) Dr Suresh Goyal: 1 (Supervisor: MS Thesis).
- (c) Dr Abhay Gaur: 1 (Co-supervisor: M.Ch Thesis).
8. **Any other achievements in number***
- (a) A HOD, Started M.Ch Urology Programme: one seat/6 month in Dec-Jan 2023 session of NEET INI 2023.
- (b) Conducted PG quiz at NZUSI -Mid-term CME in Ludhiana 2023 (Dr Suresh Goyal).
- (c) Conducted PG Quiz at NZUSI Varanasi 2023.



UROLOGY/01 INAUGURATION OF NSDC INTERNATIONAL SKILL CENTER AT AIIMS BATHINDA: DR KAWALJIT SINGH KAURA AS NODAL OFFICER



UROLOGY/02 INAUGURATION OF NSDC INTERNATIONAL SKILL CENTER AT AIIMS BATHINDA : DR KAWALJIT SINGH KAURA AS NODAL OFFICER



UROLOGY/03 ORGANISED THE VISIT OF SH. GAJENDRA SINGH SHEKHAWAT, HON'BLE UNION CABINET MINISTER FOR JAL SHAKTI TO NSDC INTERNATIONAL SKILL CENTER AND AIIMS BATHINDA



UROLOGY/04 ORGANISED THE VISIT OF SH. GAJENDRA SINGH SHEKHAWAT, HON'BLE UNION CABINET MINISTER FOR JAL SHAKTI TO NSDC INTERNATIONAL SKILL CENTER AND AIIMS BATHINDA



INSTITUTE OF NURSING EDUCATION & RESEARCH

Name of the Department	Institute of Nursing Education & Research
Head of the Department	Prof (Dr.) Kamlesh. Kumari Sharma

1. Faculty Details.

Sr.	Name of faculty	Designation	Date of Joining
(a)	Dr. Narinder Kaur Walia	Associate Professor	6 th October 2021
(b)	Mrs. Navjot Kaur	Associate Professor	16 th January 2024
(c)	Dr. Simarjeet Kaur	Assistant Professor	8 th October 2021
(d)	Sh. Atul Sharma	Assistant Professor	14 th October 2021
(e)	Mrs. Nagdeep Kaur	Assistant Professor	5 th October 2021

2. Brief Introduction of the department.

(a) Institute of Nursing Education and Research (INER), AIIMS Bathinda has been established in 2021 to become a centre of excellence in the field of Nursing Education and Research in India. The first batch of B.Sc. Hons Nursing has been started from 1st March 2021 with intake of 60 students and now 4th Batch of B.Sc. Hons is going to join this institute in the month of August, 2024. At present, INER has strength of total 155 students.

(b) Mission of the Nursing College is.

(i) To develop the centre of excellence in nursing education and research which will provide Quality educational programs which are evidence based and encourages innovations to improve patient care.

(ii) To aspires to be a model of excellence through dynamic programmes, innovative practices and research.

(iii) To prepare extraordinary healthcare professionals who will work in the hospital and community with dedication, devotion, compassion and kindness and will transform the health of people worldwide.

(iv) To declare the values and goals of nursing career.

(c) Teaching. Faculty was engaged in various teaching activities from April 2023 to 31st March 2024:-

- (i) Induction classes of Nursing Officers.
- (ii) Classes for BSc (Hons) Nursing 1st year, 2nd Year and 3rd Year.
- (iii) In service programme for nursing officers viz. workshops etc.
- (iv) Conducted National workshop and Conference.

(d) Patient related services.

(i) Patient Care. In order to ensure quality care to be provided to the patients by Nursing Officers in different wards and OPD's of AIIMS Bathinda, regular Rounds are being conducted by nursing faculty since from April, 2023 till March, 2024. Since February 2023, overall charge of nursing services is being managed by Institute of Nursing Education and Research (INER).



(ii) In addition, regular in-service education programme is being organized by selected nursing officers under the guidance of INER faculty.

3. Lectures delivered/papers presented by the faculty members in academic programs/ conferences of national/International repute.

Dr. Kamlesh Kumari Sharma, Professor-cum-Principal.				
Sr.	Name of faculty	Title/Topic	Details of the Event	Organised by
International Conferences.				
(a)	Prof (Dr) Kamlesh Kumari Sharma	Chairperson for Plenary Session I of the conference on the topic “Chronic pain and addiction”	2ndInternational Virtual Conference on Behavioral Addiction and Substance Use Disorder held virtually dtd 2 nd and 3 rd October 2023	organized by the LGBRIMH, Tezpur, Assam, IHBAS, Delhi, AZINA, Arizona, USA and ABD&SUD-Care Group ABD&SUD-Care Group
National Conferences.				
(a)	Prof (Dr) Kamlesh Kumari Sharma	Role of the Nurses in the identification and reduction of risk factors in addition to NCD management	National webinar on “Role of the nurses in global fight against non-Communicable diseases” on world health day dtd 20.04.2023	CON AIIMS Raipur & Chhattisgarh Nursing council in collaboration with ECHO India
(b)		“Choosing appropriate research design”	Faculty Development Programme on "Pragmatic Approach for Learning Quantitative Research Methodology" dtd 25/04/2023	Department of Nursing, Chitkara School of Health Sciences, Chitkara University, Punjab
(c)		Involvement of Regulatory Bodies and Organization in Implementing Evidence Based Practice For Advance Nursing "	2 nd National conference RNCNCON 2023 on the theme' Modern outlook on Nursing Advancement through Evidence Based Practice' dtd 29 th Sept'2023	Rajasthan Nursing Council.ss
(d)		speaker: “Integrating mental health into primary healthcare”	World Mental health Day 2023 organized by Institute of Nursing Education and Research in collaboration with Department of Psychiatry, AIIMS, Bathinda dtd 10.10.2023	Institute of Nursing Education and Research in collaboration with Department of Psychiatry, AIIMS, Bathinda



(e)		Chairperson in symposium SESSION II - IMPROVING ESSENTIAL NEWBORN CARE	Symposium on theme 'Essential Newborn Care'	University college of Nursing, Baba Farid university Of Health Sciences in collaboration with SOMI (Punjab chapter)
(f)		Guest speaker: "Nurturing accessible, affordable and equitable health care"	3 rd plenary session of in 4 th Annual conference of SPHERE is organized from 6-8th Nov 2023	College of Nursing AIIMS, New Delhi at NAMS, New Delhi
(g)		Moderated scientific session: "Interventions for containment of AMR: Infection Prevention Control, Diagnostic Stewardship"	WORLD AMR AWARENESS WEEK (WAAW 2023) Theme: "Preventing Antimicrobial Resistance Together" from 18-24 Nov 2023	Antimicrobial Stewardship Committee, AIIMS Bathinda and Department of Pharmacology, AIIMS Bathinda
(h)		Guest speaker: Nursing ethics and professional conduct, grooming, body language.	A workshop on " Unit Management" organized by College of Nursing, AIIMS, Bhubaneswar under the scheme Development of Nursing Services in Govt. Health Services, as directed by the Ministry of Health and family welfare, Govt. of India. from 11-12-2023 to 18-12-2023	AIIMS, Bhubaneswar
(j)		Guest speaker : 'Gender Equity and Leadership in Health sector'	Session 7: Normalizing Gender Inequity in Nursing In Gender Equity ECHO Program for Nursing professionals by ECHO India, online	ECHO India
(k)		Guest speaker: Community Outreach approach to cervical cancer elimination	one day Workshop on Cervical Cancer Awareness at AIIMS Bathinda for UG medical and Nursing students organized by Dept. of OBG and INER	Department of OBG in collaboration with Institute of Nursing Education and Research at AIIMS Bathinda



(l)		Guest speaker: “Forensic Nursing: Evolution, Scope and Significance”	one day workshop on “Forensic Nursing: The emerging Archetype” 240organized by Department of Forensic Medicine & Toxicology in collaboration with Institute of Nursing Education and Research	Department of Forensic Medicine & Toxicology in collaboration with Institute of Nursing Education and Research on 16 th February 2024 at AIIMS Bathinda
Organised CNE/chaired sessions/panel discussion.				
(a)		Organising chairperson: workshop on POINT OF CARE CONTINUOUS QUALITY IMPROVEMENT	A two days’ workshop on POINT OF CARE CONTINUOUS QUALITY IMPROVEMENT conducted on 9 th & 10 th May, 2023 for the resident doctors and Nursing Officers	INER AIIMS Bathinda
(b)		Co-organised: “Empowering Nurses for Effective Diagnostic Stewardship”.	9 th National Webinar for Clinical Nursing Research society (CNRS) North Zone in collaboration with Nursing Next Live A unit of CBS publishers & Distributors Pvt Ltd. dated 25 th July 2023	Clinical Nursing Research society (CNRS) North Zone, India
(c)		Chairperson for Plenary Session I of the conference on the topic “ Chronic pain and addiction ”	2ndInternational Virtual Conference on Behavioral Addiction and Substance Use Disorder dated 2 nd -3 rd October 2023	organized by the LGBRIMH, Tezpur, Assam, IHBAS, Delhi, AZINA, Arizona, USA and ABD&SUD-Care Group
(d)		Organizing team member: National conference on “Clinical Nursing research: Collaborative Excellence”	CNRS-NZ – National conference on “Clinical Nursing research: Collaborative Excellence” dtd 25 th October 2023 (Hybrid mode)	Clinical Nursing Research society (CNRS) North Zone, India
(e)		Organising chairperson: Symposium on ‘theme: Mental health is a universal human right.	Symposium on ‘World Mental health Day10th Oct’ 2023’	INER in collaboration with Department of Psychiatry, AIIMS, Bathinda



(f)		Co-coordinator- Hospital Awareness in OPD/IPD area ; and Hand Hygiene technique and 5 moments of Hand Hygiene	Hospital Awareness on 18 Nov 2023 in WORLD AMR AWARENESS WEEK (WAAW 2023) AIIMS Bathinda from 18-24 Nov 2023	AIIMS, Bathinda
(g)		Co-chairperson in a Workshop on Cervical Cancer Awareness	Co-chairperson in a Workshop on Cervical Cancer Awareness on 9 th February 2024 at AIIMS Bathinda for UG medical and Nursing students	Dept. of OBG and INER, AIIMS Bathinda
(h)		Organised: Workshop on Dissemination of ICSSR sponsored Project findings	One day Workshop on Dissemination of ICSSR sponsored Project findings on 12 th Feb 2024	AIIMS Bathinda in collaboration with AIIMS Jodhpur, Dr RMLIMS Lucknow, IHBAS
(j)		Organising chairperson: "Forensic Nursing: The emerging Archetype"	One-day workshop on "Forensic Nursing: The emerging Archetype" on 16 th Feb 2024 at AIIMS Bathinda.	INER in collaboration with Department of Forensic Medicine AIIMS Bathinda.
Paper Presented.				
(a)		Sharma KK, Venkatesan L, Mawar S, Malhotra S, Joshi P, Thomas P, Dabas S. "The study to Assess the effectiveness of an interactive online community health officer (CHO) Training program in terms of knowledge and satisfaction of nursing student at a tertiary care hospital, New Delhi"	Sharma KK, Venkatesan L, Mawar S, Malhotra S, Joshi P, Thomas P, Dabas S. "The study to Assess the effectiveness of an interactive online community health officer (CHO) Training program in terms of knowledge and satisfaction of nursing student at a tertiary care hospital, New Delhi" in 4 th Annual conference of SPHERE is organized from 6-8 th Nov 2023 in New Delhi, on 7 th Nov'2023. Won 3rd Prize	College of Nursing, AIIMS New Delhi in collaboration with SPHERE

4. **Paper (Oral) Presentation.** **Sharma KK,** Venkatesan L, Mawar S, Malhotra S, Joshi P, Thomas P, Dabas S. "The study to Assess the effectiveness of an interactive online community health officer (CHO) Training program in terms of knowledge and satisfaction of nursing student at a tertiary care hospital, New Delhi" in 4th Annual conference of SPHERE is organized from 6-8 th Nov 2023 in New Delhi, on 7th Nov'2023. **Won 3rd Prize.**



5. **Research activities undertaken in the department.**

S No	Name & designation of PI	Title of the project	Source of support Intramural/ extramural	Status (ongoing/ completed)	Budget
Projects Sanctioned.					
(a)	Dr. Kamlesh Kumari Sharma, Professor cum Principal	“Functionality and utilization of Health and Wellness Centres and the user experience with their health services in rural areas of three states of northern India”	Indian council of Social Science Research, ICSSR for 2023-24	Completed	sanctioned: Rs.12 Lac

6. **Publications.**

Sr	Publication	
(a)	Sharma KK, Srinivasan M, Sarkar S, Kaur R, Sharma Y, Venkatesan L, et al. Depression, anxiety, insomnia, and distress among health-care workers posted in COVID-19 care. <i>Indian J Psy Nsg</i> 2023;20:28-35 (12) (PDF) <i>Depression, Anxiety, Insomnia, and Distress among Health-Care Workers Posted in COVID-19 Care</i> . Available from: https://www.researchgate.net/publication/372446687_Depression_Anxiety_Insomnia_and_Distress_among_Health-Care_Workers_Posted_in_COVID-19_Care [accessed Jan 24 2024].	[Index Copernicus, UGC CARE List]
(b)	Devi AD, Sharma KK, Vishnu V Y, Verma S, Riju S. Effectiveness Of Video-Based Teaching Program And A Log Sheet To Prevent Pressure Ulcers In India - An RCT. <i>IOSR Journal of Nursing and Health Science (IOSR-JNHS)</i> e-ISSN: 2320–1959, p- ISSN: 2320–1940 Volume 12, Issue 5 Ser.3 (Sept. – October. 2023), PP 35-39 available at: http://www.iosrjournals.org/iosr-jnhs/pages/12(5)Series-3.html	[Google scholar International j]
(c)	Suhag A, Sharma KK, Tiwari SK, Joshi P, Rastogi S, Kaur S. Health-related quality of life, psychological issues and concerns among sarcoma survivors: a mixed method study. <i>Ecancermedicalscience</i> . 2024 Jan 22;18:1657. doi: 10.3332/ecancer.2024.1657. PMID: 38425760; PMCID: PMC10901627.	[PubMed]

7. **Other important Highlights of the department.**

- (a) Training activities conducted, surgeries, camps, etc.
 - (b) Number of Conference Organized*.
 - (c) Number of Workshop/symposium Organized*.
- (i) A two days' workshop on POINT OF CARE CONTINUOUS QUALITY IMPROVEMENT conducted on 9th & 10th May, 2023 for the resident doctors and Nursing Officers.



- (ii) Symposium on 'World Mental health Day 10th Oct' 2023' organized by Institute of Nursing Education and Research in collaboration with Department of Psychiatry, AIIMS, Bathinda on theme: Mental health is a universal human right.
- (iii) Workshop on Cervical Cancer Awareness on 9th February 2024 at AIIMS Bathinda for UG medical and Nursing students organized by Dept. of OBG and INER.
- (iv) One day Workshop on Dissemination of ICSSR sponsored collaborative Project findings on 12th Feb 2024.
- (v) One-day workshop on "Forensic Nursing: The emerging Archetype" in collaboration with Department of Forensic Medicine on 16th Feb 2024 at AIIMS Bathinda.
- (vi) Hosted one day workshop on 'Occupational safety issues of nurses concerning biomed waste management practices in the country's health care sector' organised by the Trained Nurses Association of India in collaboration with World Health Organisation at AIIMS Bathinda on 27th Feb 2023.

(d) **Community Awareness Programmes organized.**

- (i) Vigilance day November 2023.
- (ii) Menstrual hygiene May 2023.
- (iii) Dengue awareness May 2023.
- (iv) Hypertension day 17 May 2023.
- (v) Role play (nukkad natak) on environmental hygiene , 26-27 September 2023.
- (vi) Heart day NCD camp and exhibition, 29 September 2023.
- (vii) Health and wellness centre importance, 12 Feb 2024.
- (viii) HPV Vaccine Awareness 9 Feb 2024.
- (ix) World kidney day NCD camp and exhibition 13 March 2024.
- (x) Nukkad natak : Kidney day 14 March 2024.
- (xi) TB day camp: 22 March 2024.
- (xii) **Co-organised** Hospital Awareness in OPD/IPD area ; and Hand Hygiene technique and 5 moments of Hand Hygiene on 18 Nov 2023 in WORLD AMR AWARENESS WEEK (WAAW 2023) AIIMS Bathinda from 18-24 Nov 2023.

8. Number of Thesis Supervised PhD/MD/MS* FOUR (Ongoing).

9. **Any other achievements in number*.**

- (a) **Standing Selection Committee Subject Expert** for the recruitment of nursing faculty at two INIs.
- (b) Vice- President: Clinical Nursing Research Society- North Zone, CNRS- NZ w.e.f. July 2023.
- (c) Special Member, Research Quality Committee (Nursing) meeting on 25th July 2023 and 16th Jan 2024 at Baba Farid University of Health Sciences (BFUHS), Faridkot, Punjab.
- (d) External member in Board of Studies (BOS) committee on Nursing courses (UG and PG) of JIPMER, Puducherry.
- (e) Setting Question paper and preparing MCQs for entrance exams of INIs.



- (f) INER received **Appreciation Award** in recognition of extraordinary services and valued contribution to All India Institute of Medical Sciences, Bathinda on 1st July 2023.
- (g) As a hub expert in curriculum development for ‘Gender Equity ECHO Program for Nursing professionals by ECHO India’ 2023.
- (h) Reviewed six chapters for book on Fundamentals of Forensic Nursing and Introduction to Indian Laws, Jaypee brothers publication authored by Gautam Biswas and Triza Jiwan 2023.
- (j) Chairperson PG thesis evaluation for “All India Outstanding Nursing Research Award for Nursing students” 2023 by CNRS-North Zone.

Dr. Narinder Kaur Walia : Associate Professor.			
National Conferences/Workshops.			
(i)	Speaker/Resource Person: Kangaroo Mother Care Session	POCQI (Point of Care Quality Improvement) conference	Organized by Institute of Nursing Education & Research, AIIMS Bathinda w.e.f. 9 th to 11 th May, 2023.
(ii)	Speaker : Insights on risk factors, lifestyle modifications and importance of early detection in preventing heart disease in Cardiac Health Awareness Campaign	World Heart Day 2023	Department of Cardiac Sciences in collaboration with Institute of Nursing Education & Research (INER), AIIMS Bathinda.
(iii)	Speaker : Raising awareness and promote mental health advocacy.	World Mental Health Day” 2023.	Department of Psychiatry and Institute of Nursing Education & Research (INER), AIIMS Bathinda.
(iv)	Speaker/Resource Person: “Empowering Nursing Students: Prospects & Challenges”	30th Biennial SNA Conference 2023	Trained Nurses Association of India, New Delhi.
(v)	Speaker/Resource Person: Kidney health Overview	World Kidney Day 14 th March 2024	Organized by AIIMS Bathinda. Institute of Nursing Education and Research, AIIMS Bathinda in collaboration with Department of Nephrology AIIMS Bathinda
(vi)	Resource Person: In the Forensic Nursing workshop focusing on the current status of forensic nursing in India.	Forensic Nursing Workshop 2024 on 13 th February, 2024.	Department of Forensic Sciences and Institute of Nursing Education & Research (INER), AIIMS Bathinda.
(vii)	Organizer: TNAI-WHO Workshop on Bio Medical Waste Management on February 27 th , 2024, at AIIMS Bathinda, focusing on the crucial theme of "Occupational Safety Issues of Nurses Concerning Biomedical Waste Management Practices in the Country's Healthcare Sector."	TNAI-WHO Workshop on Bio Medical Waste Management on February 27 th , 2024, at AIIMS Bathinda,	Trained Nurses Association of India, New Delhi in collaboration with TNAI Punjab and World Health organization.



(viii)	Panelist and Organizer: Of Principals' Meet on 28th February 2024 at Hotel Park Plaza, Zirakpur, in collaboration with TNAI Headquarters, New Delhi, and PNRC Mohali.	Meeting of Principals of all the Nursing Colleges & Schools of State of Punjab aiming on "Education Challenges in Punjab State"	TNAI National and State in collaboration with PNRC Mohali on 28 th February, 2024.
Organised CNE/chaired sessions/panel discussion.			
(i)	Organizer : TNAI-WHO Workshop on Bio Medical Waste Management on February 27th, 2024, at AIIMS Bathinda, focusing on the crucial theme of "Occupational Safety Issues of Nurses Concerning Biomedical Waste Management Practices in the Country's Healthcare Sector."	TNAI-WHO Workshop on Bio Medical Waste Management on February 27th, 2024, at AIIMS Bathinda,	Trained Nurses Association of India, New Delhi in collaboration with TNAI Punjab and World Health organization.
(ii)	Organizer and Panelist : Of Principals' Meet on 28th February 2024 at Hotel Park Plaza, Zirakpur, in collaboration with TNAI Headquarters, New Delhi, and PNRC Mohali.	Meeting of Principals of all the Nursing Colleges & Schools of State of Punjab aiming on "Education Challenges in Punjab State"	TNAI National and State in collaboration with PNRC Mohali on 28th February, 2024.
Mrs. Navjot Kaur: Associate Professor (2023-24).			
(i)	Guest Speaker : e-learning program on Nursing Care of Ostomy Patients	e-learning program on Nursing Care of Ostomy Patients at AIIMS Deoghar on 06.02.2024	Organized by AIIMS Deoghar in coordination with ECHO India.
(ii)	Equitable access to kidney health day	World Kidney Day 2024	Institute of Nursing Education and Research, AIIMS Bathinda in collaboration with Department of Nephrology AIIMS Bathinda
Mrs. Navjot Kaur, Reviewed one manuscript for journal of Medical evidence, 28 th March2024, journal of Medical evidence			



Dr. Simarjeet Kaur: Assistant Professor (2023-24).			
National Conferences/Workshops.			
(i)	Coordinator & Organiser: Street Play and Health Education in AWW	World Malaria Day ,25 April, 2023	INER, AIIMS
(ii)	Organiser: A two days' workshop on POINT OF CARE CONTINUOUS QUALITY IMPROVEMENT	9 th & 10 th May, 2023 for the resident doctors and Nursing Officers	INER, AIIMS
(iii)	Organiser: Health Awareness Program in Community	World Hepatitis Day 28 th July 2023	INER, AIIMS
(iv)	Coordinator-Rally and street play in Urban Community	World Environment Day 5 th June 2023	INER, AIIMS
(v)	Speaker& Coordinator & Organizer: <i>Breast Feeding Techniques & Benefits</i> : Breast feeding Awareness Week in CHC Sangat and Civil Hospital, Bathinda	World Breast feeding Week (1-8 August, 2023)	INER, AIIMS in collaboration with CFM dept, and Civil Hospital Bathinda
(vi)	Organiser: Poster competition Organ Donation	Sewa Pakhwada (17 Sept -2nd Oct ,2023) under Ayushman Bhavya Program of Ministry of Health & Family Welfare	INER, AIIMS Bathinda on 23 rd Sept, 2023
(vii)	Organiser: One day Workshop on Dissemination of ICSSR project findings(Via Online mode)	ICSSR sponsored collaborative Project findings on 12 th Feb 2024	INER,AIIMS Bathinda



<u>S No</u>	<u>Name & designation of PI</u>	<u>Title of the project</u>	<u>Source of support Intramural/ extramural</u>	<u>Status (ongoing/ completed)</u>	<u>Budget</u>
Projects Sanctioned.					
(i)	Dr. Simarjeet Kaur as Co-Investigator	“Functional ity and utilization of Health and Wellness Centres and the user experience with their health services in rural areas of three states of northern India”	Indian council of Social Science Research, ICSSR for 2023-24	Completed	sanctioned: Rs.12,00000/-
<p>Papers and Books/chapters published by the faculty. Kaur S. Cultural health practices and its impact on MCH care -perspective of tribal women of Himachal Pradesh, India. The Nursing Journal of India. Nov-Dec:2023;CXIV (06),Pp-256-261.</p>					
Sh. Atul Sharma (Assistant Professor) INER AIIMS Bathinda.					
Conferences. Lecture Delivered.					
<u>Sr.</u>	<u>Title/Topic</u>	<u>Details of the Event</u>	<u>Organised by</u>		
(i)	As a Resource Person on Title: Basic Life Support (BLS) – “BLS in children & Choking adult and infant”	“Skill development induction program” for nursing officers (NORCET-5)	Institute of Nursing Education & Research (INER) AIIMS Bathinda on 20 th January 2024.		
(ii)	As a Resource Person on Title: Basic Life Support (BLS) - Choking adult and infant on	“Skill development induction program” for nursing officers (NORCET- 4)	Institute of Nursing Education & Research (INER) AIIMS Bathinda on 16 th October 2023		
(ii)	As a Resource Person on Title – “Prioritizing the Mental Health & Well-Being of Healthcare Workers”	Symposium on “World Mental Health Day 2023” Theme: “Mental Health is a Universal Human Right”	Institute Of Nursing Education & Research & In Collaboration with Department of Psychiatry, AIIMS Bathinda on 10 th October, 2023.		
(iv)	As a Facilitator on Pre conference “Skill training workshop in Digital detox”	2 nd International (virtual) Conference on Behavioral Addiction and substance Use Disorder - on October 1 st – 3 rd 2023.	LGBRIMH, Tezpur, Assam, IHBAS, Delhi in Collaboration With , Arizona Indian Nurses association, Arizona, USA, and ABD & SUD-CARE Group, India on October 2 nd – 3 rd 2023.		



(v)	As a Speaker in Oral Presentation (Virtual) on Titled: "Preventive strategies for substance use" in (Nursing Science 2023)	International Nursing Science Conference 2023 on "Prospecting Innovations and Advancements for The Betterment of Nursing Science" on August 21-23, 2023 at London, UK	International Nursing Science Conference 2023 by Magnus Group on August 21-23, 2023 at London, UK
(vi)	As a speaker in Scientific Session "Nurses: Our Real-Life Super Heroes Transforming Patient Care"	A National Conference on Challenges & Innovations in Nursing Education SKINCON 2023 Gujrat on 19 th Aug 2023	National Conference by SKIN College of Nursing Babhar Gujrat at Auditorium Nadabet Indo – Pak Border Gujrat.
(vii)	Presented Symposium on "Nurse led initiative in management of substance use disorder (SUD) - Nurse led initiative in prevention of substance use"	3 rd Annual National Conference of Addiction Psychiatry Society of India (APSI) ADDICON 2023 organized by SMS Medical College Jaipur on 26 th – 28 th Nov 2023.	Addiction Psychiatry Society of India (APSI) ADDICON 2023 organized by Swai Man Singh (SMS) Medical College Jaipur, Rajasthan
Trainings/ Courses/ Programs.			
(i)	Participated in "Dynamic Google Form Design, Analysis & Collaboration	"Dynamic Google Form Design, Analysis & Collaboration" by Odisha computer institute Bhubaneswar on 10.07.2023 to 19.07.2023	Odisha computer institute Bhubaneswar
(ii)	Professional medical writing and publication course	Professional medical writing and publication course by Prime Editor 07 Aug 2023 - 15 Sept 2023	Prime Editors Aurangabad
As a Organizer Workshop/Conferences/ Seminars.			
(i)	As a Organizer on World Mental Health Day 2023	Organized World Mental Health Day 2023 on Theme: "Mental Health Is A Universal Human Right"	Institute Of Nursing Education & Research & In Collaboration With Department of Psychiatry, AIIMS Bathinda on 10 th October, 2023
(ii)	As a Organizer during 2 nd International (Virtual) Conference on Challenges in Management of Behavioural Addictions and Substance Use Disorders organized by	Organized 2 nd International (Virtual) Conference on Challenges in Management of Behavioural Addictions and Substance Use Disorders organized by	LGBRIMH, Tezpur, Assam, IHBAS, Delhi in Collaboration With , Arizona Indian Nurses association, Arizona, USA, and ABD & SUD-CARE Group, India on October 2 nd – 3 rd 2023.



(iii)	Psychosocial issues in patients with renal conditions	14 th March World Kidney Day 2024	Institute of Nursing Education and Research, AIIMS Bathinda in collaboration with Department of Nephrology AIIMS Bathinda
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Paper Presentation.

- (i) Mohanan K, Blesson A, Sharma A, Rana S, Murshid S, Shivani S, et al. Research on the knowledge and attitude of final year B.Sc. nursing students in selected nursing colleges towards the nursing profession, Research & Review: Journal of Geriatric Nursing and Health Sciences. (2023); 5(1): 9-14.

Mrs. Nagdeep Kaur, Assistant Professor.

Organized Workshops/Conferences.

(i)	9 th -10 th May 2023	2-day Workshop	POCQI approach to Quality Improvement
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Lectures in other academic programs

(i)	POCQI approach to Quality Improvement (QI co facilitator)	POCQI approach to Quality Improvement 9 th -10 th May 2023	Institute of Nursing Education and Research, AIIMS Bathinda
(ii)	Role of nurse in promoting kidney health	World Kidney Day 2024	Institute of Nursing Education and Research, AIIMS Bathinda in collaboration with Department of Nephrology AIIMS Bathinda

10. Kaur R, Kaur S, **Kaur N**, 2023, level of internet addiction and it's association with psychopathology among adolescents, International Journal of Research Publication and Reviews, 4(2), 177-190.

11. Kaur R, Kaur S, **Kaur N**, 2023, phototherapy and its association with student's sociodemographic variables, International Journal of Research Publication and Reviews, 4(3), 1940-1946.



WORLD MALARIA DAY INSTITUTE OF NURSING EDUCATION & RESEARCH (INER) – 25TH APRIL, 2023



WORKSHOP ON "POCQI" APPROACH TO QUALITY IMPROVEMENT | INSTITUTE OF NURSING EDUCATION & RESEARCH (INER) – 9TH TO 10TH MAY 2023



BLOOD DONATION CAMP – 11TH MAY, 2023



INTERNATIONAL NURSES DAY 2023 | INSTITUTE OF NURSING EDUCATION & RESEARCH – 12TH MAY, 2023



WORLD HEPATITIS DAY – 28TH JULY 2023



HOSPITAL SERVICES



OPD SCHEDULE

Medical Superintendent

Prof. (Dr.) Rajiv Kumar, Prof and Head, CTVS

Deputy Medical Superintendent

Dr. Moonis Mirza, Associate Professor, Hospital Administration

Dr. K. Purushottam, Assistant professor, Hospital Administration

The institute started on 23rd December 2019 with OPD services. The OPD services have been growing steadily with the focus on quality health care services. Faculty has been recruited in many broad specialties.

Registration Desk.

(a) The real time HMIS streamlines the treatment flow of patients and simultaneously empowering workforce to perform to their peak ability, in an optimized and efficient manner. It is modeled on the unique combination of a 'patient centric and medical staff centric' paradigm, thus providing benefits to both the recipients and the providers of healthcare. It ensures dramatic improvement in performance along with reducing the costs. A data warehouse of such records can be utilized for statistical requirements and for research.

(b) The HMIS ensures that users do not spend hours in patient registration and lab tests. Hospital HMIS system generates a unique ID for every new patient registration and lab samples. Patients OPD slip has a unique ID on it and only takes seconds to scan and offer hospital services like revisits, billing, pharmacy services etc. Each patient after OPD registration moves to vital examination desk. On the vital examination desk trained health personnel who measure pulse, respiration and blood pressure of patients.



MRD

OPD SERVICES

1. Multi-specialty OPD services aim to providing patient centric care were started in the specialty areas of General Medicine, Surgery, Gynecology& Obstetrics, Orthopedics, ENT, Ophthalmology, Dermatology, Psychiatry, Dentistry, Radiotherapy, and Anesthesiology which are functioning from Monday to Saturday. The clinics focus on the preventive, promotive and curative aspect of health care services on an outpatient basis. Immunization clinic has also been started with support from the state Government to provide vaccines under the Universal Immunization Program by Government of India.
2. The hospital brings together some of the most talented medical professionals in the country and has a dedicated team of clinicians to provide highest standards of patient care. There is provision of consultation chambers where patients are provided medical, surgical or allied consultation, examination and expert opinion, Day care rooms where patients can be examined for any disease condition.
3. The OPD is supported by basic diagnostics in radiology, biochemistry, pathology, and microbiology and sample collection points have been provided. Pharmacy provides medications to the patients. The biomedical waste management at AIIMS Bathinda has been out sourced.

HOSPITAL INDICATORS		
(a)	No. of functional beds (Total)	750
(b)	Utilization of beds (Bed Occupancy)	75-80 %
(c)	Average No. of patients visiting IPD Patients/month	2600-2800
(d)	Average No. of patients visiting OPD patients/day	2000-2200
(e)	No. of MOTs Functional	16
(f)	No. of OTs Functional	16
(g)	No. of super specialty departments functional	13
(h)	No. of specialty department's functional	26
(j)	No. of Major Surgeries	12419
(k)	No. of Minor surgeries	5071

CENSUS OF HOSPITAL ACTIVITIES		
Sr.	Services	Number
(a)	Total Number of OPD	584007
(b)	Total Number of IPD Patients	31994
(c)	Bacteriology	31010
(d)	Biochemistry	416367
(e)	Clinical Pathology	29472
(f)	Cytopathology	3610
(g)	Hematology	168838
(h)	Microbiology	34624
(j)	Mycology	1777
(k)	Parasitology	2775
(l)	Serology	967
(m)	Virology	68648
(n)	Total Radiological Investigations	174015



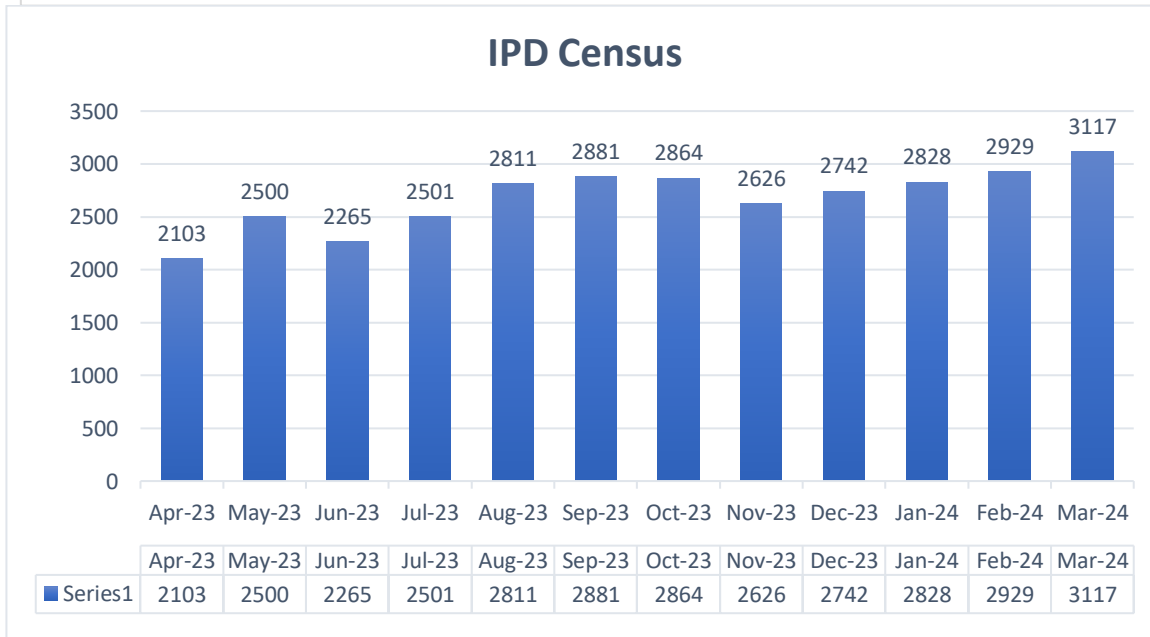
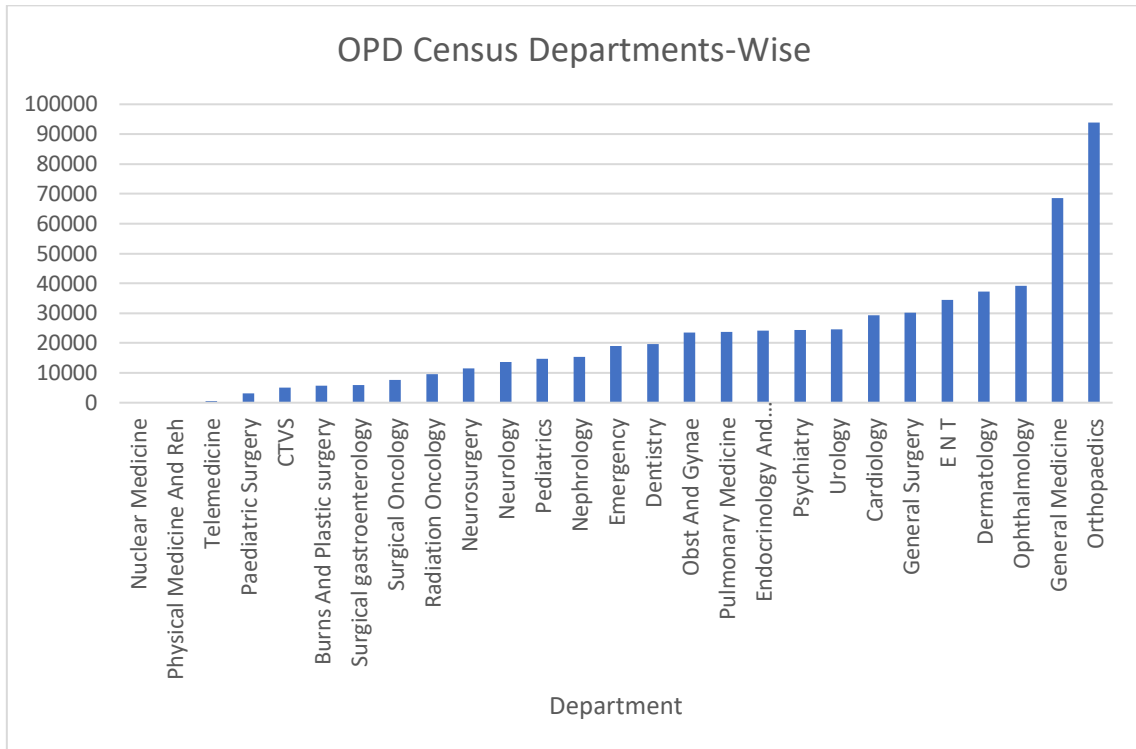
DEPARTMENT-WISE STATISTICS REPORT

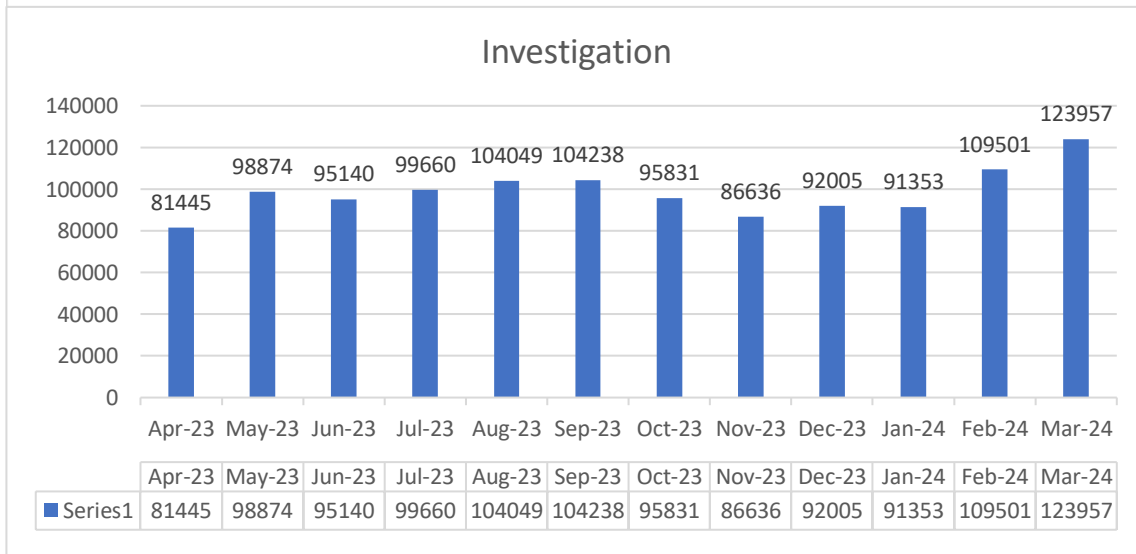
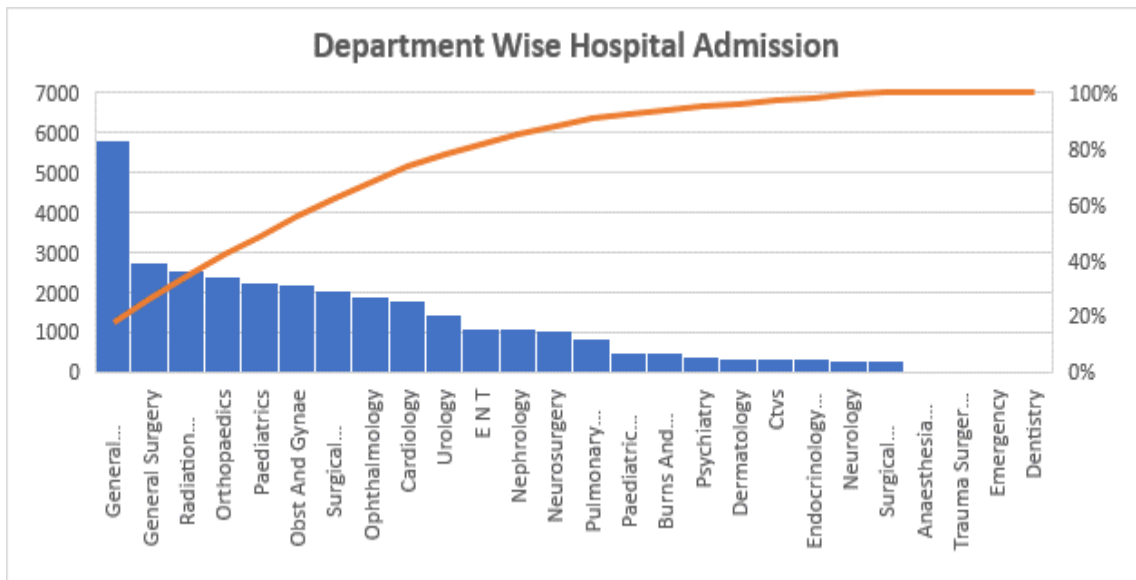
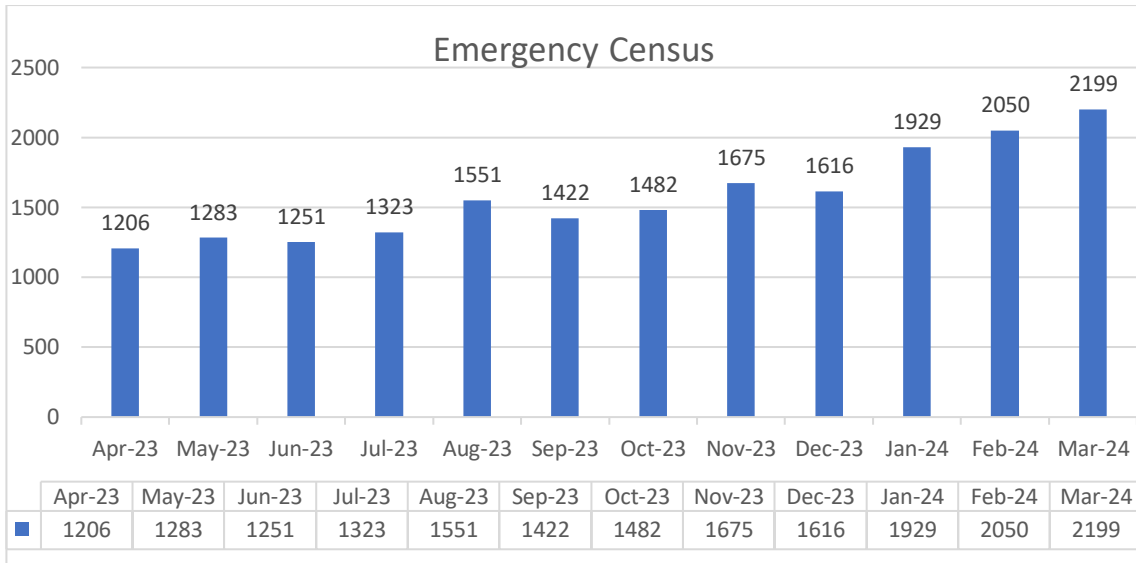
April 2023 to March 2024

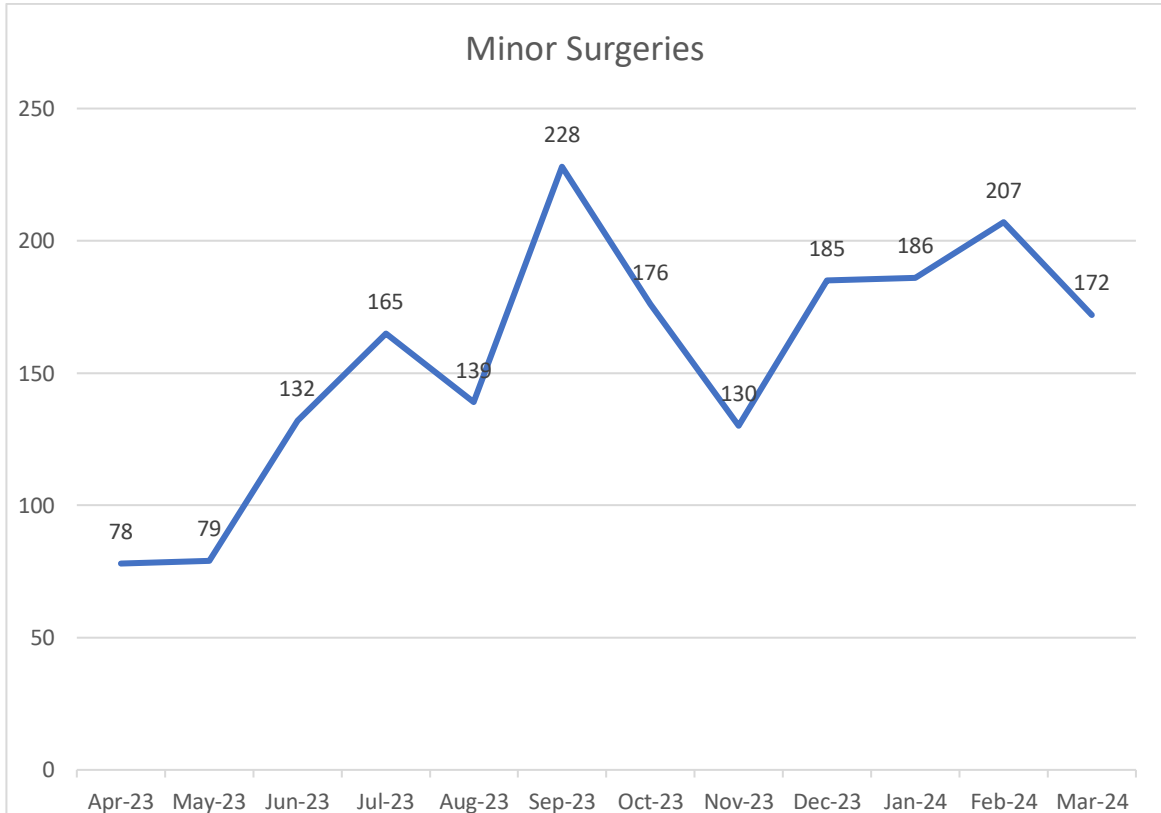
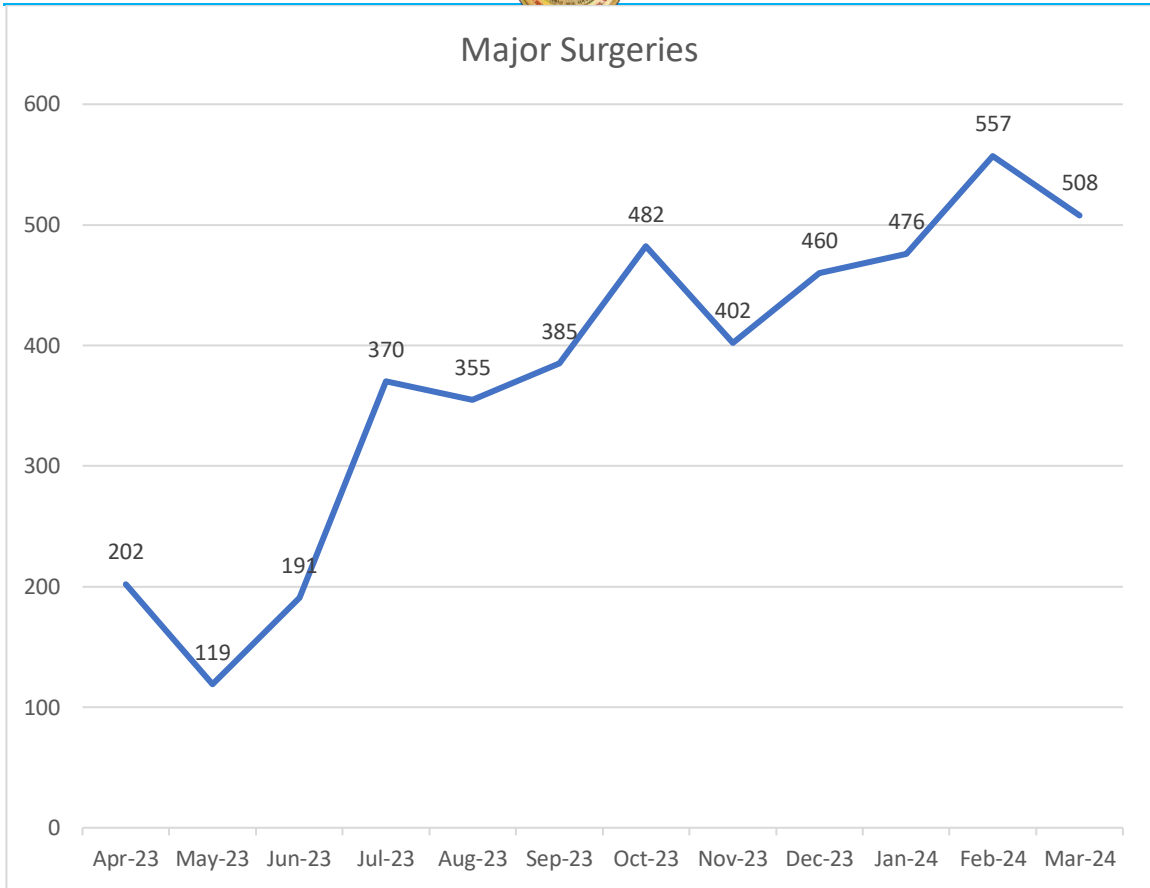
Sr	Department	New Cases				Old Cases				Total			
		M	F	O	T	M	F	O	T	M	F	O	T
1.	Burns And Plastic surgery	1551	730	0	2281	2521	942	0	3463	4072	1672	0	5744
2.	Cardiology	10483	8289	2	18774	5752	4680	0	10432	16235	12969	2	29206
3.	CTVS	1301	738	0	2039	1845	1117	0	2962	3146	1855	0	5001
4.	Dentistry	4597	4996	0	9593	4666	5385	0	10051	9263	10381	0	19644
5.	Dermatology	8735	8634	0	17369	9573	10389	0	19962	18308	19023	0	37331
6.	Emergency	10700	6490	1	17191	1116	680	0	1796	11816	7170	1	18987
7.	Endocrinology And Metabolism	4578	5216	0	9794	6391	8023	0	14414	10969	13239	0	24208
8.	E N T	9261	8206	0	17467	8854	8167	0	17021	18115	16373	0	34488
9.	General Medicine	16860	17367	0	34227	15614	18728	0	34342	32474	36095	0	68569
10.	General Surgery	7101	6754	0	13855	8034	8217	0	16251	15135	14971	0	30106
11.	Nephrology	2624	1455	0	4079	7201	3982	2	11185	9825	5437	2	15264
12.	Neurology	5112	4709	1	9822	1911	1822	1	3734	7023	6531	2	13556
13.	Neurosurgery	3036	2412	1	5449	3198	2816	0	6014	6234	5228	1	11463
14.	Nuclear Medicine	3	3	0	6	0	2	0	2	3	5	0	8
15.	Obst And Gynae	4	11361	0	11365	3	12040	0	12043	7	23401	0	23408
16.	Ophthalmology	10638	10881	4	21523	9589	7985	5	17579	20227	18866	9	39102
17.	Orthopaedics	26572	35461	3	62036	12388	19379	3	31770	38960	54840	6	93806
18.	Paediatrics	3778	2369	0	6147	5406	3112	0	8518	9184	5481	0	14665
19.	Paediatric Surgery	753	294	0	1047	1517	475	0	1992	2270	769	0	3039
20.	Physical Medicine and Rehabilitation	94	48	0	142	25	7	0	32	119	55	0	174
21.	Psychiatry	6211	5412	0	11623	6302	6413	0	12715	12513	11825	0	24338
22.	Pulmonary Medicine	5399	4684	0	10083	6396	7267	0	13663	11795	11951	0	23746
23.	Radiation Oncology	887	1023	0	1910	3642	4084	0	7726	4529	5107	0	9636
24.	Surgical Gastroenterology	158	115		273	162	149		312	320	265		585
25.	Surgical Oncology	87	106		193	210	352		563	298	458		756
26.	Telemedicine	9	11		20	10	16		26	19	27		47
27.	Urology	610	242		853	1207	397		1605	1818	640		2458
	Grand Total	14894	15231	1	30126	13786	14486	1	28274	28680	29718	2	58400



GRAPHICAL REPRESENTATION OF VARIOUS SERVICES









LABORATORY SERVICES

Laboratory Services: Laboratory at AIIMS Bathinda

Biochemistry: Investigation panel includes routine biochemical tests, thyroid function tests, hormones, vitamin assays and others.

Microbiology: Investigations include serological tests, screening for STDs, immunological tests, bacteriological cultures and viral markers.

Pathology: Investigations include routine haematological indices, cytology, and histopathology.

PHARMACY SERVICES

Pharmacy Services: AMRIT Pharmacy at AIIMS Bathinda (OPD & IPD).

Affordable Medicines and Reliable implants for Treatment (AMRIT) an initiative launched by the Ministry of Health & Family Welfare provide affordable medicines for treatment of diseases. The Pharmacy facilitates safe, effective, efficient and economical use of medications with the aim of optimizing patient care by trained staff. Pharmacy is committed to reduce the treatment cost and bringing about a change with treatment being affordable to every patient. AMRIT pharmacy employs registered pharmacist to dispense the medicines. The Pharmacists follow the procedures prescribed in Dispensing Pharmacy Discipline. They ensure that, the right patient is served, a desired dosage form of the correct drug is given, the prescribed dosage and quantity are given, the right container that maintains the potency of the drugs is used, the container is appropriately labelled, and clear instructions have been delivered to the patient. The Standard dispensing procedure followed by Pharmacists. Along with the Drug dispensing procedures, pharmacists follow a store level process that involves, computerized real time data and some manual interventions.





DEPARTMENT WISE
DETAILS OF CLINICAL
ACTIVITIES



DEPARTMENT OF BIOCHEMISTRY

1. Patient Care.

Sr.	Category	Number
(a)	Patients seen in OPD	26901
(b)	Patients admitted in IPD.	-
(c)	Teleconsultations	-
(d)	Procedures performed A. Major B. Minor	Major-12419 Minor -5071
(e)	Any other special clinic/activity	Pain OPD - 423 Pain OT -85

2. Number of Investigations in OPD Lab.

Sr.	Parameter	Total
(a)	AFP	429
(b)	ANTI-TPO	591
(c)	CA-125	560
(d)	CA-15.3	31
(e)	CA-19.9	767
(f)	CEA	895
(g)	CORTISOL	749
(h)	C-PEPTIDE	120
(j)	FERRITIN	2341
(k)	FOLATE	1263
(l)	FREE PSA	299
(m)	FREE T3	12244
(n)	FREE T4	12783
(o)	TSH	18482
(p)	INSULIN	202
(q)	FSH	736
(r)	iPTH	1805
(s)	LH	593
(t)	PROLACTIN	1511
(u)	TESTOSTERONE	577
(v)	TOTAL PSA	1172
(w)	VITAMIN D	9647
(x)	VITAMIN B12	7794
(y)	UREA	41418
(z)	CRT	42426
(aa)	BID	34077
(ab)	BIT	34322
(ac)	ALP	34536
(ad)	AST	34375
(ae)	ALT	34397
(af)	TP	33970
(ag)	ALB	34935
(ah)	CA	7675
(aj)	PHOS	2905
(ak)	CHOL	10916
(al)	TG	10905
(am)	HDL	11184
(an)	LDH	387



(ao)	AMY	626
(ap)	LIPSE	676
(aq)	CKNAC	40
(ar)	IRON	865
(as)	UIBC	314
(at)	NA	26735
(au)	K	26744
(av)	CL	26720
(aw)	MG	327
(ax)	MPR	1487
(ay)	MAL	3009
(az)	UA	6312
(aaa)	HBA1C	15401
(aab)	GLU	25085
(aac)	CRP	5938
(aad)	RF	2992
(aae)	IRON PROFILE	505
(aaf)	CKMB	9
(aag)	DIA SYS HS -CRP	111
(aah)	TOTAL	587916



DEPARTMENT OF BURNS & PLASTIC SURGERY

Sr.	Category	Number
1.	Patients seen in OPD	6514
2.	Patients admitted in IPD	490
3.	Teleconsultations	06
4.	Procedures performed	
	(a) Dressing	1890
	(b) OPD procedures	304
	OT performed	
	(a) Major	532
	(b) Minor	47
5.	Any other special clinic/activity	
	(a) Cleft lip and Craniofacial clinic	1014
	(b) Hand and Brachial Plexus Surgery Clinic	1474

DEPARTMENT OF CARDIOLOGY

Sr.	Category	Number
1.	Patients seen in OPD	28885
2.	Patients admitted in IPD	
	(a) Cardiology Ward	715
	(b) CCU Cardiology	750
3.	Teleconsultations	04
4.	Procedures performed	
	(a) PTCA	367
	(b) Cath study	08
	(c) IVC filter	03
	(d) Pacemakers (TPI, PPI, AICD/CRT-D, CRT-P)	114
	(e) Device Closure (ASD, VSD, P DA, RS OV)	19
	(f) Balloon Valvotomy (BMV, BPV)	13
	(g) TAVI	01
	(h) EPS+RFA	01
	(j) TEVAR	01
5.	Any other particular clinic/activity.	
	(a) Heart Failure Clinic	1295
	(b) Heart Valve Clinic	29
	(c) Pediatric Clinic	381

FOR DIAGNOSTIC DEPARTMENTS

Sr.	Category	Number
1.	ECG	6720
2	Echocardiography	8040
3	Holter Monitoring	181
4	Ambulatory Blood Pressure Monitoring	29
5	Coronary Angiography	988



DEPARTMENT OF CARDIOTHORACIC AND VASCULAR SURGERY

Sr.	Category	Number
1.	Patients seen in OPD	4969
2.	Patients admitted in IPD	347
3.	Teleconsultations	-
4.	Procedures performed	
	(a) Major	282
	(b) Minor	107
5.	Any other special clinic/activity	-

DEPARTMENT OF COMMUNITY & FAMILY MEDICINE

Sr.	Category	Number
1.	Patients seen in OPD	RHTC: - 1747 UHTC :- 1501 IMMUNIZATION: - 2726 doses (pediatric & Adult) NCD Screening: - 306

DEPARTMENT OF DERMATOLOGY

S No	Category	Number	
1.	Patients seen in OPD	37,275	
2.	Patients admitted in IPD	296	
3.	Teleconsultations	59	
4.	Procedures performed		
	A. Major	273	
	B. Minor	3357	
5.	Any other special clinic/activity	1. Psoriasis clinic	203
		2. Vitiligo clinic	47
		3. STI clinic	82
		4. CTD	28
		5. Vesicobullous	39



DEPARTMENT OF DENTISTRY

Sr.	Category	Number
1.	Patients seen in OPD	17626
2.	Procedures performed A. Major B. Minor	
Major Procedures	Diagnostics	267
	CBCT	4446
	IOPA Lat ceph	79
	Dental Implants	21
	Periodontal Microsurgery	27
	Laser Assisted Surgeries	40
	FPD	82
	Obturator	25
	Orthodontic Treatment	157
	Periodontal Surgeries	251
	RCT	832
	Obturator	25
	Activator	7
	Fracture Reduction	19
Impactions	69	
Cyst Removal	5	
Tumour excision	4	
Minor Procedures	Extractions	1645
	Complete Dentures	99
	RPD	38
	Oral Prophylaxis	541
	Scaling and Root planning	631
	Restorations	1415
	Study Cast	172

DEPARTMENT OF DIETETICS

Sr.	Category	Number
1.	Patients seen in OPD	150 (15/3/24 to 31/3/24)
2.	Patients admitted in IPD	15
3.	Activity	To mark World Health Day on April 5th, our department has planned out a special awareness campaign for outpatient (OPD) visitors of the institute. The focus of this initiative was on metabolic disorders, emphasizing the critical role of diet and lifestyle modifications in managing these conditions effectively.

DEPARTMENT OF ENDOCRINOLOGY AND METABOLISM

Sr.	Category	Number
1.	Patients seen in OPD	24458
2.	Patients admitted in IPD	376
3.	Teleconsultations	15
4.	Any other special clinic/activity	Wednesday-Paediatric endocrinology Friday- Obesity Clinic

**FOR DIAGNOSTIC DEPARTMENTS**

Sr.	Category	Number
1.	Extended OGTT	3
2.	Growth hormone stimulation test	14
3.	Urine ketones	36
4.	Urine osmolarity	217
5.	Serum osmolarity	56
6.	BMD assessment	
7.	RBS testing	

DEPARTMENT OF GENERAL MEDICINE

Sr.	Category	Number
1.	Patients seen in OPD	67770
2.	Patients admitted in IPD	4392 (MICU – 1024 ; MMW – 1688 ; FMW – 1680)
3.	Teleconsultations	23
4.	Any other special clinic/activity	<ul style="list-style-type: none"> ● Fibroscan and liver clinic ● Diabetes clinic ● Hypertension clinic ● Rheumatology clinic

FOR DIAGNOSTIC DEPARTMENTS

Sr.	Category	Number
1.	ECG	20,838

DEPARTMENT OF GENERAL SURGERY

Sr.	Category	Number
1.	Patients seen in OPD	30,106
2.	Patients admitted in IPD	2492
3.	Teleconsultations	
4.	Procedures performed (a) Major (b) Minor	A. Major=1021 B. Minor – 3992
5.	Any other special clinic/activity	<ol style="list-style-type: none"> 1. Bariatric Surgery Clinic 2. Diabetic Foot Clinic 3. AV Fistula and CAPD Clinic for ESRD



DEPARTMENT OF OBSTETRICS & GYNAECOLOGY

Sr.	Category	Number
1.	Patients seen in OPD	22708
2.	Patients admitted in IPD	3161
3.	Teleconsultations	22
4.	Procedures performed	
	(a) Major	253
	(b) Minor	417
5.	Any other special clinic/activity	
	(a) Pap	610
	(b) USG	656
	(c) Day care	326
	(d) Colposcopy	54
6.	(a) Total no. of deliveries	695
	(b) Total NVD	239
	(c) Total LSCS	439
	(d) Hysterotomy	01
	(e) Instrumental- Forceps	06
	(f) Ventouse	10
	(g) Twin deliveries	16
	(h) Total alive births	670
	(i) Alive MCh	326
	(j) Alive FCh	344
	(k) IUD	39
	(l) Still birth	02

DEPARTMENT OF MICROBIOLOGY

Sr.	Name of the test	Number
1.	AFB Stain for All Samples	1334
2.	Bacterial Culture (Stool Culture (Enteric Pathogens)	38
3.	Bacterial Culture (Urine Culture/Sensitivity)	9355
4.	Bacterial Culture for Sterile Body Fluids (Culture and Sensitivity)	131
5.	Bacterial Culture of All Specimens (Including Smear Microscopy and Susceptibility Tests)	1966
6.	Blood culture	1984
7.	Fungal Culture (All Specimens)	453
8.	Microscopy KOH/CFW	918
9.	Koh/Gram Smear Pus for Culture	21
10.	Microscopy India Ink	88
11.	Smear For Bacteria (Gram Stain)	840
12.	Albert Stain Throat Swab Smear (Diphtheria)	15
13.	Anti-HCV	26898
14.	HIV (Opt Out) Screening (Rapid Test)	26,874
15.	HBsAg	26,797
16.	Dengue IgG/IgM Antibody	835
17.	Dengue-NS1 Antigen.	1519
18.	Rapid Plasma Reagin	687
19.	Widal Agglutination	310
20.	Antigen Detection for Malaria	1479
21.	Covid-19	310
22.	Brucella	216
23.	Scrub Typhus	286
24.	Leptospira	293



DEPARTMENT OF NEPHROLOGY

Sr.	Category	Number
1.	Patients seen in OPD	15265
2.	Patients admitted in IPD	1218
3.	Teleconsultations	10
4.	Procedures performed (a) Major (b) Minor	Major- 3 (Fistula) CAPD Catheter -27 Minor-980
5.	Any other special clinic/activity	3 (Three) (a) Glomerulonephritis clinic (Wednesday 9-5 PM) (b) Renal Transplant Clinic (Thursday 9-5 PM) (c) PD clinic (Thursday 2-5 PM)

DEPARTMENT OF NEUROLOGY

Sr.	Category	Number
1.	Patients seen in OPD	14430
2.	Patients admitted in IPD	335
3.	Teleconsultations	-
4.	Procedures performed (a) Major (b) Minor	Lumbar Puncture and CSF Manometry-130 Tensilon Test 35 Botox-10 Nerve and Muscle Biopsy -10
5.	Any other special clinic/activity	Movement Disorder Clinic-376 Patient Refractory Epilepsy Clinic-310 Patient Neuro-infectious Diseases Clinic-150

FOR DIAGNOSTIC DEPARTMENTS

Sr.	Category	Number
1.	Name of Test	
2.	Nerve Conduction Study	510
3.	Electromyography Study	117
4.	EEG	150
5.	Repetitive nerve conduction study	10
6.	Visual evoked potential	15
7.	Brain stem auditory evoked response	15

DEPARTMENT OF NEUROSURGERY

Sr.	Category	Number
1.	Patients seen in OPD	11,322
2.	Patients admitted in IPD	32,160
3.	Teleconsultations	-
4.	Procedures performed A. Major B. Minor	409 634
5.	Any other special clinic/activity	-



DEPARTMENT OF NUCLEAR MEDICINE

Sr.	Category	Number
1.	Patients seen in OPD	39
2.	Any other special clinic/activity Thyroid Clinic	23

DEPARTMENT OF OPHTHALMOLOGY

Sr.	Category	Number
1.	Patients seen in OPD	40338
2.	Patients admitted in IPD	1895
3.	Teleconsultations	407
4.	Procedures performed	
	A. Major	1549
	B. Minor	926
5.	Any other special clinic/activity	4503
	a. Glaucoma & Cornea	3778
	b. Squint/ Oculoplasty	589
	c. ROP	136

FOR DIAGNOSTIC DEPARTMENTS

Sr.	Name of test Category	Number
1.	Laser procedures	1059
2.	Optical coherence tomography	4880
3.	Perimetry	2158
4.	Ultrasonography (B-SCAN)	761
5.	Fundus fluorescein angiography	336
6.	Synoptphore	235
7.	Pentacam	104
8.	Ultrasound Biomicroscopy	02

DEPARTMENT OF ORTHOPAEDICS

Sr.	Category	Number
1.	Patients seen in OPD	82116
2.	Patients admitted in IPD	2362
3.	Teleconsultations	
4.	Procedures performed	
	A. Major	2139
	B. Minor	5943
	C. Cast/Slab	1241
5.	Any other special clinic/activity	11690



DEPARTMENT OF PAEDIATRIC MEDICINE

Sr.	Category	Number
1.	Patients seen in OPD	14665
2.	(a) Patients admitted to IPD (b) Paediatrics Medicine wards A and B=1157 (c) Paediatrics PICU=38 (d) Neonatal Ward=530 (e) NICU= 209 (f) Paediatrics Day Care=268 (g) Paediatrics/0 A Emergency obs ward=3 (h) Paediatrics/1 A Sicu1 Ward=5 (i) Paediatrics/4 B Paediatrics Surgery Ward=7 (j) Paediatrics/6 C Neurology Ward=5	2222
3.	Teleconsultations	
4.	Procedures performed (a) Major (b) Minor-Intrathecal chemotherapy	280
5.	Any other special clinic/activity	

FOR DIAGNOSTIC DEPARTMENTS

Sr.	Category Name of test	Number
1.	Muscle Biopsy	30
2.	EEG	288
3.	Nerve conduction studies	80

DEPARTMENT OF PEDIATRIC SURGERY

Sr.	Category	Number
1.	Patients seen in OPD	3352
2.	Patients admitted in IPD	559
3.	Teleconsultations	25
4.	Procedures performed (a) Major (b) Minor	368 178
5.	Any other special clinic/activity (minor OT)	-Hypospadias clinic -Paediatric Gastric Surgery/Paediatric Thoracic Surgery Clinic -Paediatric Urology/Neurosurgery



DEPARTMENT OF PATHOLOGY

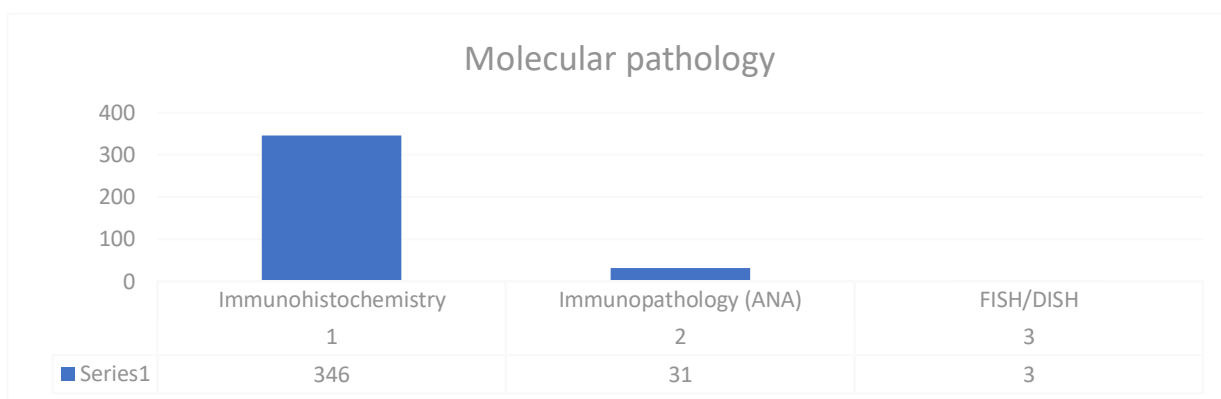
Sr.	Category	Number
1.	Patients seen in OPD	NA
2.	Procedures performed (a) Major (b) Minor	Bone marrow aspiration and Biopsy- 527 Usg and Non USG guided FNAC- 1935 Total minor- 2462
3.	Any other special clinic/activity	Integrated Center for Hemophilia and Hemoglobinopathies - Drugs provided to VIII deficiency cases - 120 Von will cases- 11 VII- 10 Hemlibera- 15 IX - 5

FOR DIAGNOSTIC DEPARTMENTS

Sr.	Name of the test	Numbers From April 1 st , 2023 till date																
Routine																		
1	Complete Blood Count	167004																
2	PBF	9633																
3	ESR	24045																
4	Urine examination Chemical Examination (2 parameters)	40120																
5	Urine examination Chemical Examination (10 parameters)	20																
6	Urine examination Microscopy	47764																
7	Semen Analysis	190																
8	<div style="text-align: center;"> <p>Numbers From April 1st, 2023 till date</p> <table border="1" style="display: none;"> <caption>Data for Bar Chart: Numbers From April 1st, 2023 till date</caption> <thead> <tr> <th>Test No.</th> <th>Number</th> </tr> </thead> <tbody> <tr><td>1</td><td>202119</td></tr> <tr><td>2</td><td>90374</td></tr> <tr><td>3</td><td>5030</td></tr> <tr><td>4</td><td>10162</td></tr> <tr><td>5</td><td>530</td></tr> <tr><td>6</td><td>115721</td></tr> <tr><td>7</td><td>168445</td></tr> </tbody> </table> </div>	Test No.	Number	1	202119	2	90374	3	5030	4	10162	5	530	6	115721	7	168445	1548
Test No.	Number																	
1	202119																	
2	90374																	
3	5030																	
4	10162																	
5	530																	
6	115721																	
7	168445																	
9	Fine Needle aspiration cytology	1935																
10	Exfoliative cytology	1322																
11	Histopathology	9403																
12	Special Stains: AFB	255																
13	Special Stains: Congo red	54																
14	Special Stains: PAS	450																
15	Thalassemia screening	530																
16	PTI	49412																
17	INR	49412																
18	APTT	13283																



19	D-Dimer	1237
20	Phlebotomy	168445
21	Bone marrow Examination	527
22	LBC	225
23	BT/CT	1437
24	Reticulocyte count	1323
25	Pearl's stain	527
26	Mantoux test	605
27	CSF cell count	1675
SPECIAL TESTS (Molecular Pathology)		
1	Immunohistochemistry	346
2	Immunopathology (ANA)	31
3	FISH/DISH	3



DEPARTMENT OF PHYSICAL MEDICINE AND REHABILITATION (PMR)

Sr.	Category	Number
1.	Patients seen in OPD	235
2.	Any other special clinic/activity- Physiotherapy offered (OPD & IPD)	505

DEPARTMENT OF PSYCHIATRY

Sr.	Category	Number
1.	Patients seen in OPD	25605
2.	Patients admitted in IPD	441
3.	Teleconsultations	4-5/week
4.	Procedures performed. A. Major B. Minor	ECTs-182(upto date) Pentothal abreaction 8 Psychotherapy sessions 180
5.	Any other special clinic/activity	Emergency and CL Psychiatry Services



DEPARTMENT OF PULMONARY MEDICINE

Sr.	Category	Number
1.	Patients seen in OPD	20,337
2.	Patients admitted in IPD	1093
3.	Teleconsultations	-
4.	Procedures performed per month	90-100
5.	Any other special clinic/activity ABPA Clinic ILD Clinic	197 50

FOR DIAGNOSTIC DEPARTMENTS

Sr	Category Name of test	Number
1.	Spirometry	3730
2.	CPET	81

DEPARTMENT OF RADIATION ONCOLOGY

Sr.	Category	Number
1.	Patients seen in OPD	9536
2.	Patients admitted in IPD	IPD-1316, DAY CARE-1199
3.	Teleconsultations	10
4.	Procedures performed (a) Major (b) Minor	100
5.	Patients received radiotherapy	500
6.	Any other special clinic/activity	ENT, ORTHO tumor clinics

DEPARTMENT OF RADIODIAGNOSIS

Sr.	Category	Number
1.	Ultrasound	31973
2.	Color Doppler	2150
3.	X-ray	80466
4.	CT	41550
5.	MRI	10383
6.	Mammography	208
7.	Fluoroscopic procedures/contrast Imaging	216

DEPARTMENT OF SURGICAL GASTROENTEROLOGY

Sr.	Category	Number
1.	Patients seen in OPD	6401
2.	Patients admitted in IPD	296
3.	Teleconsultations	Nil
4.	Procedures performed A. Major B. Minor	OT:191
5.	Any other special clinic/activity	Fibroscan test:191



DEPARTMENT OF TRANSFUSION MEDICINE & BLOOD BANK

FOR DIAGNOSTIC DEPARTMENTS

Sr.	Category	Number
1	Blood Grouping	21214
2	Indirect Coombs Test (ICT)	327
3	Direct Coombs test (DAT)	684
4	Differential DAT	114
5	Blood Compatibility testing	8403
6	Antibody screening	64
7	Antibody Identification	52
8	Auto-antibody screening	55
9	Antibody titres	30

DEPARTMENT OF UROLOGY & RENAL TRANSPLANTATION

Sr.	Category	Number
1.	Patients seen in OPD	24570
2.	Patients admitted in IPD	1456
3.	Teleconsultations	---
4.	Procedures performed (a) Major (b) Minor	410 380
5.	Any other special clinic/activity (Male sexual health)	500

FOR DIAGNOSTIC DEPARTMENTS

Sr.	Category	Number
1.	UFM	2157
2.	Urodynamic Study	251
3.	ESWL	672

DEPARTMENT OF ENT HEAD AND NECK SURGERY

S No	Category	Number
1.	Patients seen in OPD	34096
2.	Patients admitted in IPD	1094
3.	Teleconsultations	0
4.	Procedures performed (a) Major (b) Minor	386 393
5.	Any other special clinic/activity	25025



CENTRAL FACILITIES



CENTRE FOR MEDICAL EDUCATION TECHNOLOGY (CMET)

1. The Centre for Medical Education and Technologies (CMET), AIIMS Bathinda aims to become a Centre of excellence for sensitizing and training health professions educators in the latest innovations in teaching-learning and assessment methodologies, curriculum development and educational research.

2. Towards this aim, the CMET has been actively conducting faculty development programs and has recently started a series of hands-on training workshops titled 'Training the Trainers'. In the near future, the CMET plans to conduct certified in-house training programs in medical education.

3. The Team.

Sr.	Name	Designation	Role
(a)	Prof. Dr. D.K. Singh	Executive Director	Patron
(b)	Prof. Dr. Akhilesh K. Pathak	Professor	Coordinator
(c)	Dr. Navita Aggarwal	Additional Professor	Assistant Coordinator
(d)	Dr. Gagandeep Kwatra	Additional Professor	Assistant Coordinator
(e)	Dr. Mohd. Altaf Mir	Associate Professor	Member
(f)	Dr. Meena Mirdha	Associate Professor	Member
(g)	Dr. Abhinav Kanwal	Associate Professor	Member
(h)	Dr. Niket Verma	Assistant Professor	Member

CENTRAL LIBRARY

Name of the Department	Central Library
Head/ Incharge of the Department	Prof. (Dr.) Rakesh Kakkar

Name of the Faculty	Designation of Committee Members
Prof. (Dr.) Rakesh Kakkar	OIC Central Library
Dr Jitendra Aneja	Member
Dr Dipti Magan	Member
Dr Ankita Kankaria	Member
Dr Sivanantham K	Member

- **Books added to Stock during the year: 4168**
- **Total Books in Stock (As on 31-03-2024): 13720**
- **Subscribed databases: 04**
 - Clinical Key
 - Clinical Key Student
 - British Medical Journal (BMJ)
 - UpToDate
- **Subscribed Research support tools: 02**
- Grammarly for Education (Writing Enhancement Tools)
- iThenticate (Anti-Plagiarism Software)
- **No. of Books issued during the year:**

<u>Apr-June, 2023</u>	<u>July- Sept, 2023</u>	<u>Oct-Dec, 2023</u>	<u>Jan-Mar, 2024</u>
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396	578	710	762
-----	-----	-----	-----

4. **Number of users during the year.**

Apr-June, 2023	July- Sept, 2023	Oct-Dec, 2023	Jan-Mar, 2024
2182	2749	1523	2510

5. **Events organized.**

- A demonstration workshop was organized for Clinical Key Flex on 11th April 2023.
- A training workshop was organized by ERMED on 27th June 2023.
- A demonstration workshop was organized for Clinical Key students on 17th October 2023.
- A workshop was organized by QMed on 7th November 2023.

6. **Facilities.** The central library is fully air-conditioned and equipped with Wi-Fi, CCTV surveillance, and fire alarm system. The reading hall (central library-1) accommodates over 200 students with comfortable furniture. A dedicated faculty reading also available in central library.



WORKSHOP ON CLINICAL KEY



WORKSHOP ON Q MED 07.11.2023

INSTITUTIONAL ETHICS COMMITTEE (IEC)

Sr.	Name of Member	Role/Designation in Ethics Committee
1.	Dr. Satinder Gombar, Ex-HOD, Anaesthesia, GMCH, Chandigarh	Chairperson
2.	Prof.Dr. Akhilesh Pathak, Professor & HoD, Forensic Medicine & Toxicology, AIIMS Bathinda	Basic Medical Scientist
3.	Prof.Dr. Lajya Devi Goyal, Professor & Head of Department of Obstetrics & Gynecology, AIIMS Bathinda	Clinician
4.	Dr. Mirdul Madhav Pandit Rao, HOD Anaesthesia, Adesh Institute of Medical Sciences & Research, Bathinda	Clinician
5.	Prof.Dr. Anuradha Raj, Professor & Head of Department of Ophthalmology, AIIMS Bathinda	Clinician
6.	Dr. Jitendra Aneja, Additional Professor, Department of Psychiatry, AIIMS Bathinda	Clinician
7.	Dr. Priti Chaudhary, Additional Professor, HOD Anatomy, AIIMS Bathinda	Member Secretary
8.	Dr. Abhinav Kanwal, Associate Professor, Department of Pharmacology, AIIMS Bathinda	Scientific Member
9.	Dr. Praveen Bansal, Joint Director, UCER, BFUHS, Faridkot	Scientific Member
10.	Dr. Vinod Arya, Assistant Professor, CU Punjab, Bathinda	Social Scientist
11.	Advocate Rohit Sharma, B. Com, LLB	Member (Legal Expert)
12.	Prof. Mohan Lal Arora	Lay Person

7. After due permission of the chairperson, proceedings of the meeting started with the discussion of the projects submitted to the IEC. During the above stated meetings, total of 121 projects were discussed. Details are:-

- 65 research projects of faculty.
- 11 STS projects.



- (c) One non-STS project.
- (d) 44 P.G. thesis protocols.

INTERNAL COMPLAINTS COMMITTEE (ICC)

PREVENTION OF SEXUAL HARASSMENT AT WORKPLACE

1. As per the guidelines issued by Ministry of Women and Child development, all the organizations having more than 10 personnel/officials must constitute an ICC committee in pursuance of the “Sexual harassment of Women at workplace Prevention, Prohibition and Redressal act 2013”. This act ensures that women are protected against sexual harassment at all work place be it in public or private. The act contributes to the realization of women’s right to gender equality, life and liberty in working conditions everywhere. The sense of security at workplace will improve women’s participation in work resulting in their economic empowerment and growth.

Sr.	Name	Designation	Role
(a)	Dr. Gitanjali	Prof. & Head, Biochemistry	Chairperson
(b)	Dr. Priti Chaudhary	Addl. Prof. & Head, Anatomy	Member
(c)	Dr. Anuradha Raj	Prof. & Head, Ophthalmology	Member
(d)	Dr. Vaibhav Saini	Addl. Prof. & Head, ENT	Member
(e)	Dr. Jitender Aneja	Addl. Prof, Psychiatry	Member
(f)	Dr. Jyoti Barwa	Addl. Prof, FMT	Member
(g)	Dr. Sonia Kochhar	Addl Prof. & Head, Physiology	Member
(h)	Dr. Ramnika Aggarwal	Addl. Prof, CFM	Member
(j)	Dr. Narinder Kaur Walia	Associate Prof, INER	Member
(k)	Dr. Lata Goyal	Associate Prof, Dentistry	Member

2. The committee organizes regular lectures on “Orientation of Sexual harassment at work place against women” at AIIMS Bathinda to sensitize the students, faculties, nurses, staffs, supporting staffs and administration on various occasions. The aim of this sensitization programme is to create awareness amongst the employees of AIIMSBathinda regarding the POSH (Prevention of sexual harassment) act 2013. The contact details of the committee are also displayed on all the notice boards at college campus, OPD premises and hostel premises.



INFORMATION TECHNOLOGY (IT) CELL

1. All India Institute of Medical Sciences, Bathinda has a functional IT Cell and it has its own website which is developed and maintained in house by its IT cell. AIIMS Bathinda is in the process of drafting an IT vision document which envisages comprehensive information, communication, technology enabled environment in AIIMS, Bathinda. AIIMS, Bathinda has recruited 2 Programmers (IT) on contractual basis and has also created the Information Technology cell as under to assist the Administration.

2. **Website.** The IT cell has designed and developed the Website of the institute. The IT cell continued to maintain the website and add functionality as and when required. Website provides all information related to following points:-

- (a) News & Events
- (b) Procurement
- (c) Recruitment
- (d) Citizen Charter
- (e) Grievance Form
- (f) Hospital Services
- (g) Departmental Information
- (h) Academics
- (i) Enquiry
- (j) Gallery
- (k) Vendor Form
- (l) OPD Roster
- (m) Events
- (n) Research



ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA
 अखिल भारतीय आयुर्विज्ञान संस्थान, बठिन्डा
 ਅਖਿਲ ਭਾਰਤੀ ਆਯੁਰਵਿਗਿਆਨ ਸੰਸਥਾਨ, ਬਠਿੰਡਾ

ENQUIRY
 Hospital: 01664-286222
 Emergency: 01664-286111, 01664-286112
 Single: 01664-286113, 01664-286114
 Administration: 01664-286101

Dr. Mansukh Mandaviya
Cabinet Minister
Ministry of Health and Family Welfare
Government of India

Online OPD Registration

Dr. Bharati Pravin Pawar
Minister of State
Ministry of Health and Family Welfare
Government of India

Events

03 APR Workshop/CME/Innovative Clinical Training/Translational Research Workshop on "Bench to Bedside- Translating Research from Laboratory to Patient Care" | Department of Biotechnology

26 MAR Event: Glaucoma - A Panoramic View | Department of Ophthalmology

24 MAR Event: World TB Day | Department of Community and Family Medicine

[View all](#)

Welcome to All India Institute of Medical Sciences, Bathinda

Prof. Dinesh Kumar Singh
Executive Director
AIIMS Bathinda

Professor D K Singh joined as the founder Executive Director of AIIMS, Bathinda on 27.06.2020. Professor Singh, envisions to fulfil the mandate of this institute by developing it into a centre of excellence in medical care, a state-of-art facility for medical training and research.

Prof. D. K. Singh has immense experience in hospital management and medical education. Before joining AIIMS Bathinda, he was working as the director of Bijendra Institute of Medical Sciences (BIMS), Ranchi. His extra-ordinary work and dedication won him accolades for achieving many milestones for BIMS, Ranchi.

READ MORE...

Procurement Recruitment

(Posted on 16-Mar-2023)
Procurement of consumables items parts for run dialysis unit for the department of nephrology at AIIMS, Bathinda

(Posted on 15-Mar-2023)
NTI for RFID Library Security System in Library Department for Central Library

[For More Procurement Notices](#)
Click Here

[View all](#)

News & Notifications

(Posted on 07-Mar-2023)
Purchase of "Instrument - BD TotalyTM Sld Prep" on Proprietary basis- Inviting Comments thereon

(Posted on 24-Feb-2023)
Information brochure for stray round of counseling for AIIMS

[View all](#)

Patient

Faculty

Student

Employee

Vendor

Visitor

AIIMS Bathinda on Social Media

Sweets by AIIMSbathinda

Directions to AIIMS Bathinda

Patients Registration for OPD

Last Week : 9250

Till Now : 820142

Helpline Numbers

Psychiatry Problems
0164 - 2867575/ 0164-2867576

Our Gallery

WORLD GLAUCOMA WEEK | DEPARTMENT OF OPHTHALMOLOGY

[View](#)

WORLD CANCER DAY | INSTITUTE OF NURSING EDUCATION AND RESEARCH

[View](#)

WORLD SLEEP DAY | DEPARTMENT OF PHYSIOLOGY

[View](#)

GLAUCOMA : A PANORAMIC VIEW | DEPARTMENT OF OPHTHALMOLOGY

[View](#)

WORLD TB DAY | DEPARTMENT OF COMMUNITY AND FAMILY

[View](#)

[View all](#)

About AIIMS

AIIMS, Bathinda is one of the apex healthcare institutions being established by the Ministry of Health & Family Welfare, Government of India under the Public Health Services for India (PHSI).

Other AIIMS

- AIIMS Delhi
- AIIMS Bhubaneswar
- AIIMS Patna
- AIIMS Raipur
- AIIMS Bhopal

AIIMS Bathinda

- AIIMS Bathinda
- AIIMS Jodhpur
- AIIMS Lucknow
- AIIMS Bikaner

Staff Links

- Chief Officer
- Stipendiary Form
- SC/ST
- Plaster
- Staff
- Deputation Notification

Important Link

- Home
- Privacy Policy
- Web Privacy Policy
- Transport Filing
- Central Library
- PMU Login

Settings

- OPD Registration Using
- Web Consultation
- Email
- Address

OPD Registration Using: Monday to Friday 09:30 AM to 11:00 AM, Saturday 09:30 AM to 10:00 AM

Web Consultation: 08:30 AM to 11:00 PM

Email: www@aiimsbathinda.in

Address: Model Dental Road, Bathinda, Punjab 151001

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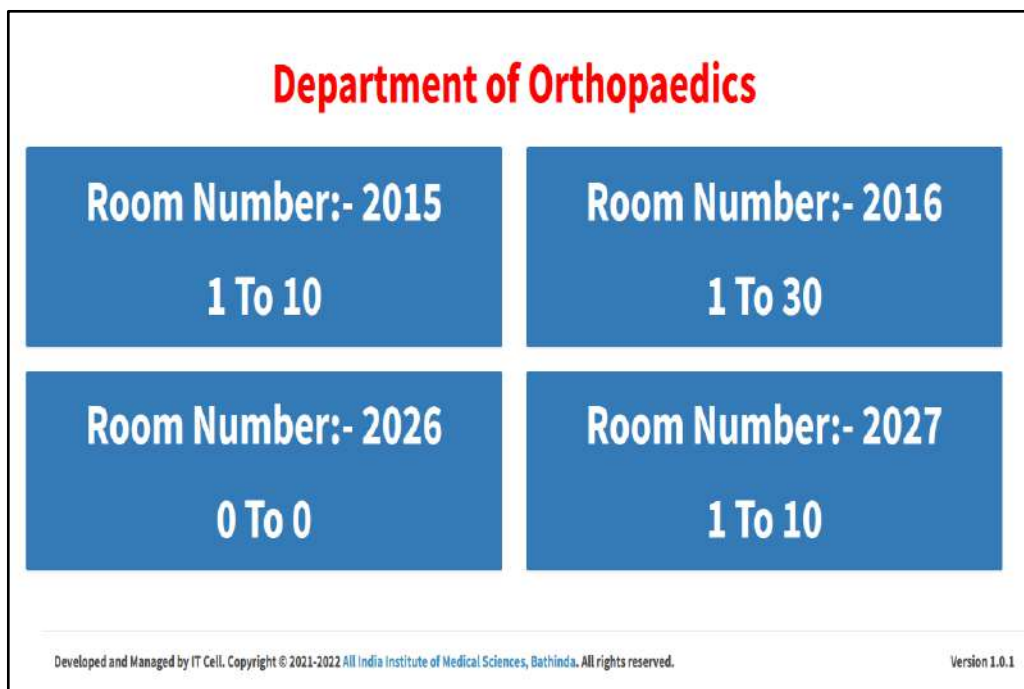
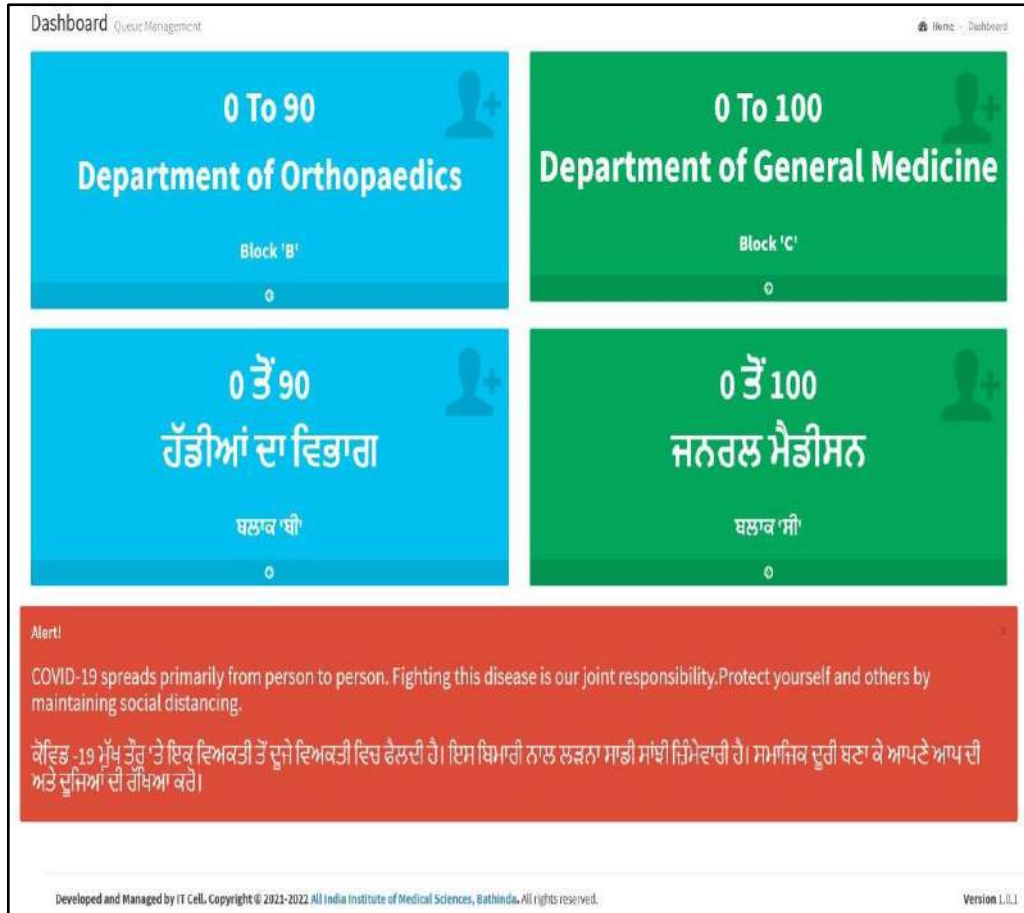
WEBSITE SCREENSHOT PROVIDING THE DETAILS OF THE HOSPITAL SERVICES & ORS

279



3. **Major Services and Developments of the IT Cell.**

(a) **Queue Management System (QMS).** The IT Cell has designed and developed the queue management system for the management of patient's queue for various departments in the hospital. QMS is running on the LED displays installed in OPD Block. The QMS system is bilingual and works in both English as well as Punjabi language. QMS can also function on a room-wise basis, enabling efficient management of queues and patient flow within specific rooms.

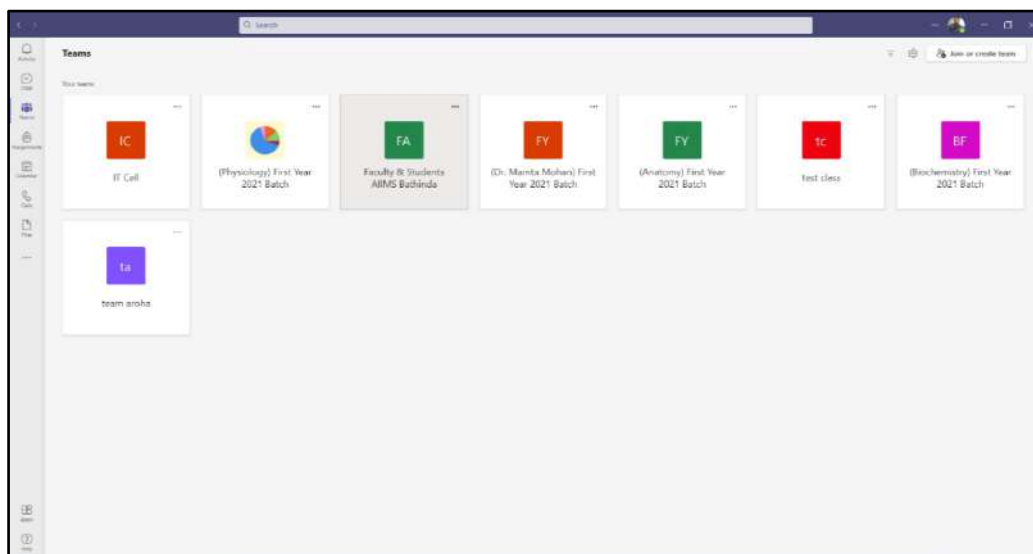




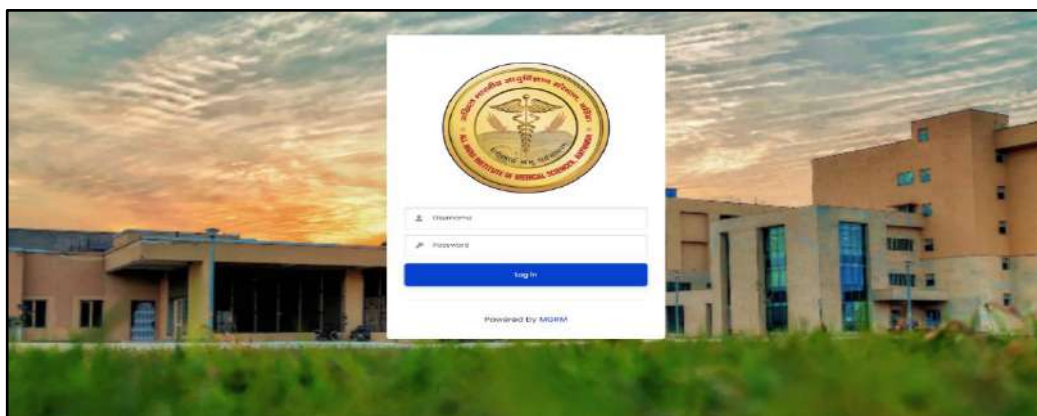
4. **Learning Management System (LMS).** Platforms that are implemented by IT Cell are used MS as mentioned below:-

(a) **Google Workspace.** In addition to the website & QMS, IT cell has been providing mail services through G Suite (Google Workspace). The extension of this service has enabled the use of Google Classrooms as a basic LMS service for the departments in the campus. File sharing and recording of lecture is available in this platform. Various apps are available through workspace such as Gmail, Google calendar, Meet, Assignments, Forms and sheets etc.

(b) **Microsoft Teams.** Online classes, Assignments can be taken through MS Teams. Faculty can interact one to one as well as with whole class using Teams as well as email with Microsoft account. File sharing and recording of lecture is available in this platform. Data storage of 1 TB per account is given by Administration to store, transfer data such as video lectures, assignments, photographs etc.



(c) **Learning Management System from RailTel.** On Pilot basis, Ministry of Health and Family Welfare, selected AIIMS Bathinda and AIIMS Raebareli to implement Learning Management System (LMS) and this software will be used to digitize all the academic records for students & faculty through a single integrated platform. The proposed platform would also cater the needs of online learning/e-learning for on Campus and Remote Students (Learning Support Platform) across the medical institute. OIC IT is the Nodal officer for the implementation of the LMS at AIIMS Bathinda.



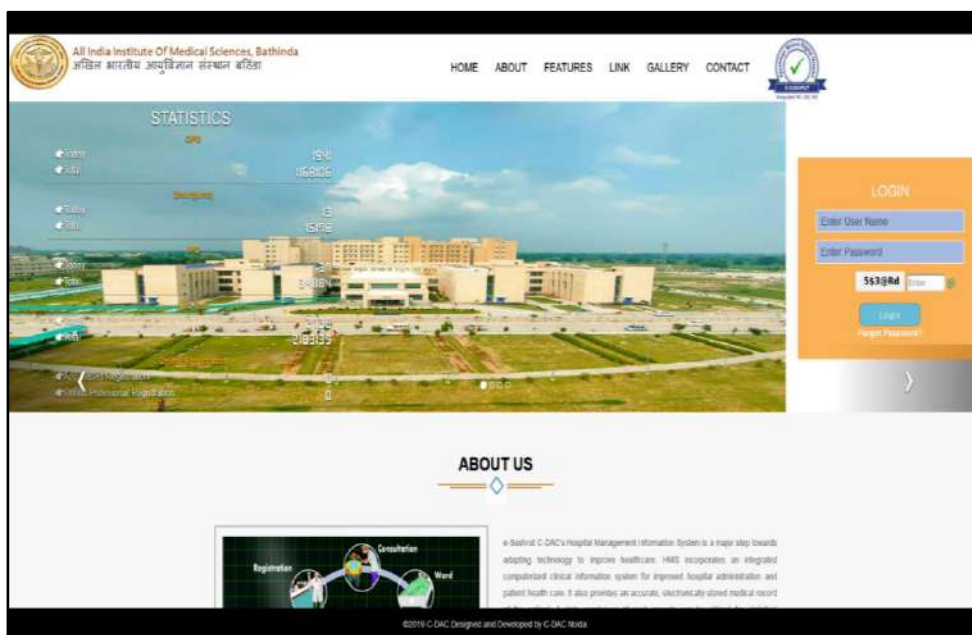


(d) **Hospital Management Information System (HMIS).** HMIS called eSushrut has started functioning from day-one of beginning of the OPD services and is a major step towards adapting technology to improve healthcare. This HMIS incorporates an integrated computerized clinical information system for improved hospital administration and patient health care. It also provides an accurate, electronically stored medical record (EMR) of the patient. An Electronic Health Record (EHR) is an electronic version of a patient's longitudinal health record. EHR may contain medical history, diagnosis, medications, treatment plans, immunization dates, allergies and test results of a patient across time. Modules which are currently working in HMIS are:-

- (i) Patient Registration.
- (ii) Emergency Registration.
- (iii) Patient Enquiry.
- (iv) OPD with Order Management.
- (v) IPD Management System.
- (vi) ADT (Bed Management).
- (vii) Investigation for Labs.
- (viii) EMR.
- (ix) Pharmacy and Inventory Management.
- (x) Alert Management.
- (xi) User Management.
- (xii) Online Appointment-Registration System.
- (xiii) Mobile Apps- Provisional Registration.
- (xiv) Investigation report Viewing.
- (xv) Integration with PSS and PHRMS Equipment Interfacing.

(e) **Modules which are under implementation.**

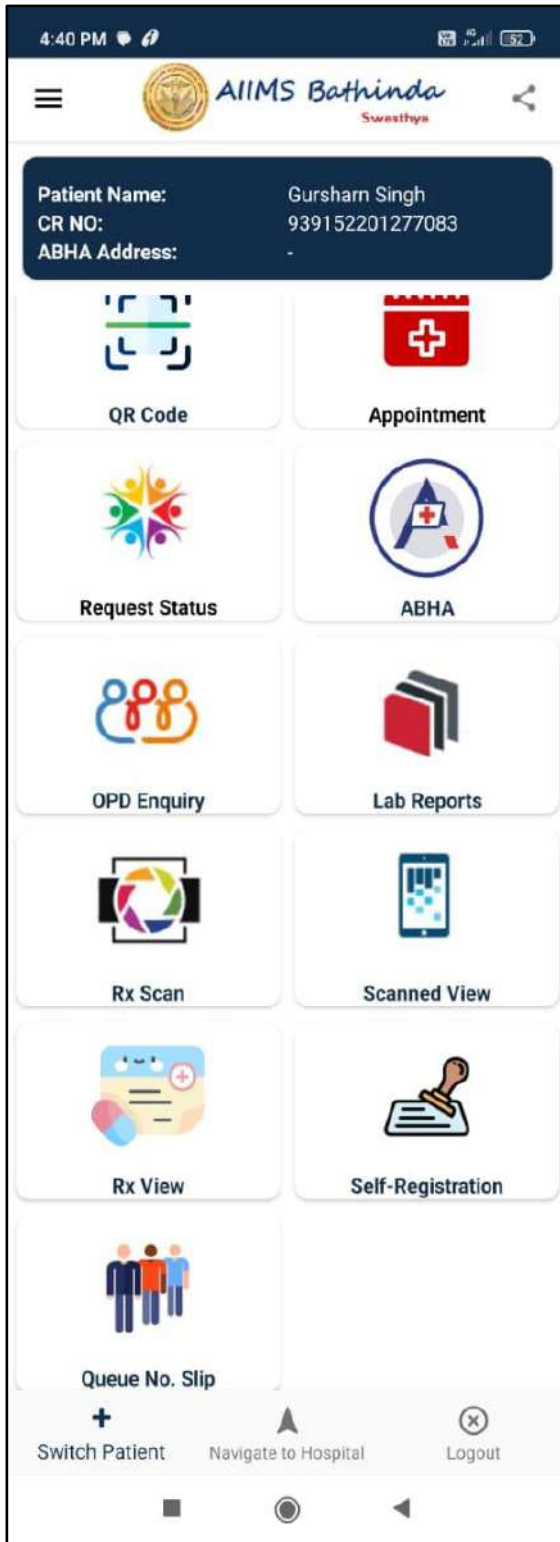
- (i) OT and Anaesthesia.
- (ii) MRD.
- (iii) CSSD.



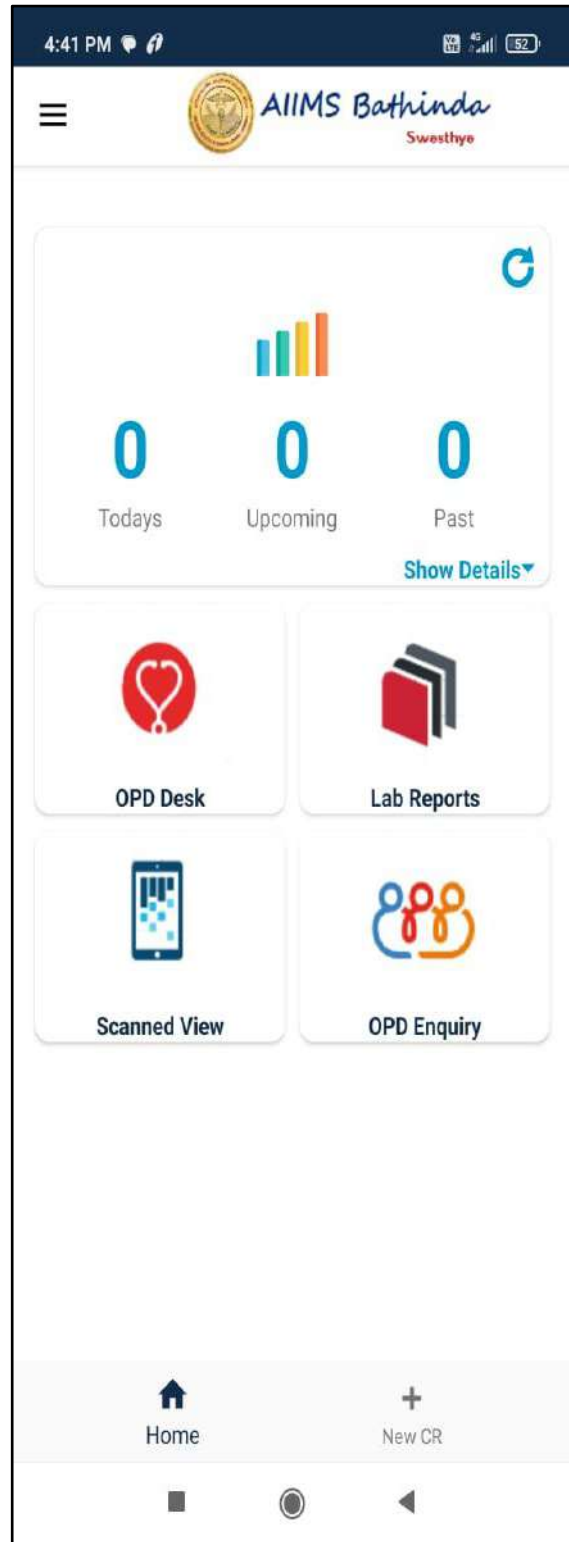


(f) **Mobile Applications.** The mobile applications are currently live, enabling patients to access various services related to the HMIS, including lab reports and online appointments.

Android	Feature details -31/03/2023
Last release date	10 March 2023
Appointment	OPD Appointment for special and general Clinics
Request Status	Request status of appointments taken
OPD Enquiry	Roster of the various departments with building, Room and days
LAB Enquiry	Lab test tariff enquiry
Tariff Enquiry	Hospital tariff enquiry
Lab Reports	View / Download Lab Reports
Rx View	User can view its RX in pdf format
Self-Registration	Self Registration for OPD through scanning the QR code
Queue No slip	Queue number after self-registration
OPD Desk	Doctor can create the eRx
Lab Reports	View /download patients Lab reports by entering the number
OPD Enquiry	Roaster of the various departments with Building Room and days



PATIENT LOGIN



DOCTOR LOGIN



(g) **College Management System:** On Pilot basis, Ministry of Health and Family Welfare, selected AIIMS Bathinda and AIIMS Raebareli to implement College Management System (CMS) and this software will be used to digitize all the academic & administrative records for students & staff through a single integrated platform.

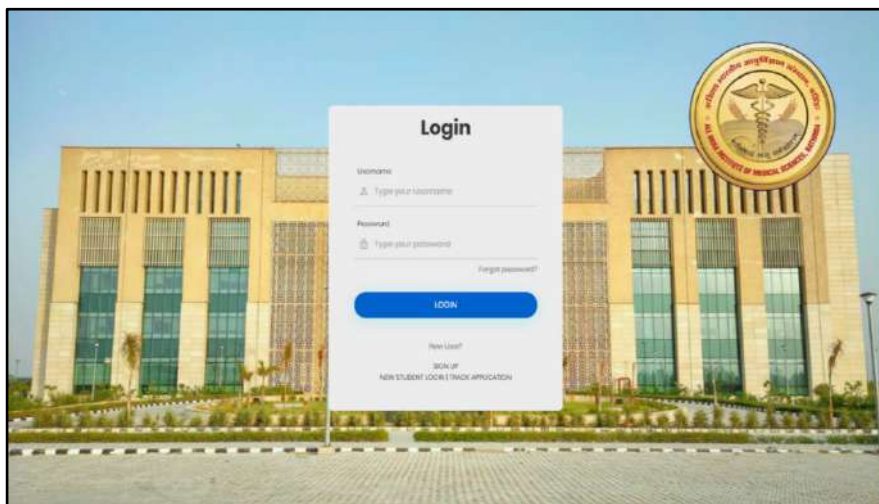
(h) **Modules.**

(i) **Student Management.**

- (aa) Application configuration & Setup.
- (ab) Student Information.
- (ac) Result.
- (ad) Attendance.
- (ae) Examination.
- (af) Time Table.
- (ag) Library.
- (ah) Transport.
- (aj) Hostel Management.

(ii) **Administration.**

- (aa) Employee Management.
- (ab) Inventory & Procurement.
- (ac) Fee & Fine.
- (ad) Payroll.
- (ae) Financial Management & Book Keeping.
- (af) System Administration.
- (ag) MIS Module.
- (ah) SMS Module Administration.





(iii) **eOffice.** The eOffice product/solution is a G2E/G2G developed by National Informatics Centre (NIC) to provide a one stop access point for conducting office procedures electronically which is expected to transform the government functioning to a more efficient mode. eOffice has two modules eOffice Lite (eFile) and eOffice Sparrow. eOffice Lite is for efile digitalization and movement of files and eOffice Sparrow is for APAR digitalization. OIC IT is appointed as a Nodal officer and IT Cell is coordinating with the NIC to implement eOffice in AIIMS Bathinda.

(iv) **eSanjeevani OPD.** A doctor to patient telemedicine system has been deployed nationally by the Ministry of Health & Family Welfare under Ayushman Bharat Scheme of Government of India. The scheme is particularly useful during times of pandemic Covid-19 as it helps people avoid going out to consult a doctor or visit a hospital. Through eSanjeevani OPD, anyone can seek medical advice and medication through audio and video. With the introduction of this service, people living in the remotest areas will also be able to get their health-related consultation. AIIMS Bathinda started Teleconsultation using portal eSanjeevani OPD. Admin Panel in which new entries of **doctors for various departments, record updation is maintained by IT Cell.**

The banner features the Ministry of Electronics and Information Technology logo, the Digital India logo, and the eSanjeevani OPD logo. It includes the text 'Digital India AatmaNirbhar India' and 'eSanjeevani National Telemedicine Service: Providing Risk-free, Contactless & Safe healthcare services'. A list of participating institutions is provided:

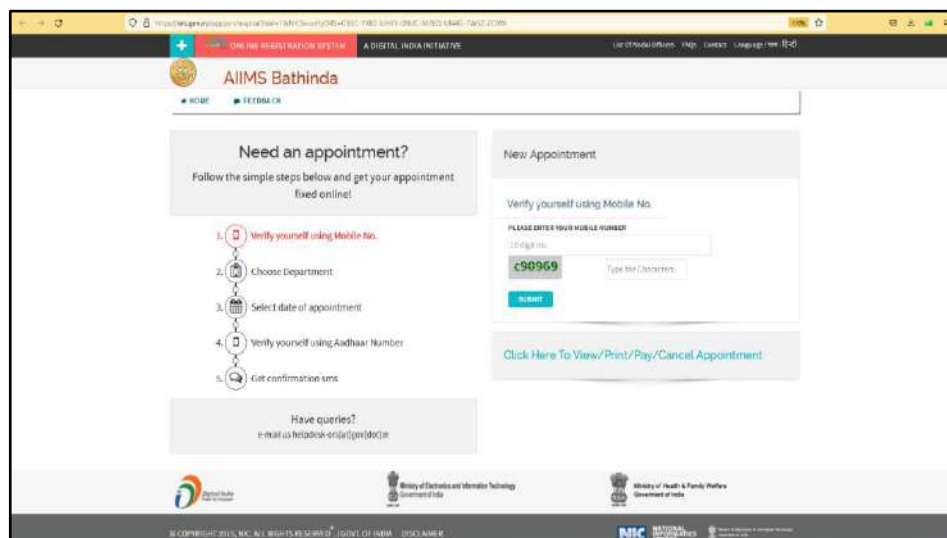
- Numerous premier institutions are offering general and specialised services through eSanjeevani:
 - AIIMS Bathinda
 - AIIMS Bibinagar
 - AIIMS, Rishikesh
 - AIIMS Kalyani
 - Lady Hardinge Medical College and Hospital
- eSanjeevani services are now available free of cost through 3.75 lakh Common Service Centres across the country

The banner also features a portrait of Prime Minister Narendra Modi and a woman using a laptop.

(v) **Online OPD Registration.** Online Registration System (ORS) is a framework to link various hospitals across the country for Aadhaar based online registration and appointment system where counter based OPD registration and appointment system through Hospital Management Information System (HMIS) has been digitalized. Portal facilitates online appointments with various departments of different Hospitals using eKYC data of Aadhaar number if patient's mobile number is registered with UIDAI. And in case the mobile number is not registered with UIDAI it uses patient's name. New Patients will get appointment as well as Unique Health Identification (UHID) number. If Aadhaar number is already linked with UHID number, then appointment number will be given and UHID will remain the same.



(vi) AIIMS Bathinda started online appointment using ORS portal. Admin Panel in which new entries of doctors for various departments, OPD schedule, record updation is maintained by IT Cell.



5. **Network.** AIIMS Bathinda signed MoU with the National Knowledge Network (NKN) for the internet connectivity and 1 GBPS internet link is working in AIIMS Bathinda. OIC IT is the nodal officer and IT Cell is coordinating with the NKN regarding the network related works. BSNL also serves as both the ISP and PRI provider, with the IT Cell serving as the nodal department and also overseeing day-to-day coordination with the relevant department for related tasks.

6. **Firewall & Network Devices.** The IT Cell is responsible for the management and oversight of critical network devices, including firewalls, ISRs, PRIME, and WLC, as well as essential systems like CCTV, Nurse Call, and IDS. IT Cell ensures the seamless operation of network services by handling configuration and policy-based tasks.

7. **Biometric Register.** The IT Cell has successfully engineered a specialized software application with the primary purpose of converting the raw data generated by our biometric machines into a format compatible with our biometric register system. This innovative solution streamlines the process of recording and managing biometric data, making it more accessible and convenient for administrative purposes. By seamlessly integrating raw data into the biometric register, this application enhances the efficiency of record-keeping procedures.

8. **Email Services.** AIIMS Bathinda is using NIC Email services under the domain 'AIIMSbathinda.edu.in'. OIC IT is the nodal officer for the same and IT Cell is operating admin panel of NIC Email services. Services like creation of new email account, deactivation of account etc. along with the renewal of VPN and email services subscription is operated and maintained by the IT Cell. Additionally, Google workspace services under the domain 'AIIMSbathinda.in' is subscribed by the AIIMS Bathinda from Google and google email services along with the admin panel is also managed and operated by the IT Cell.

9. **Video Conferencing (VC) Room.** Set up for the video conferencing is installed in ground floor of Medical College, AIIMS Bathinda by IT Cell using various devices such as LED Display (12*6 Feet), Video EndPoint, Microphones etc. Administration is using this VC room for videos conferences such as meetings, lectures, interviews on various platforms like google meet, cisco Webex, Zoom, Microsoft Teams etc.



10. **Telemedicine Room.** A telemedicine room has been set up in the ground floor of IPD by the IT Cell and all the equipments required for the video conferencing such as 85 Inch Display, PC, Microphones and Web camera has been installed in that room. This room is equipped to **roll** out the eSanjeevani services in AIIMS Bathinda. This room is additionally equipped to facilitate consultants in appearing before the court virtually at AIIMS Bathinda.
11. **Social Media.** Social Media Social is intended to provide individuals the ability to access information quickly and communicate with others. AIIMS Bathinda utilize these tools and websites to share information with consumers in a variety of ways such as sharing general **information** through Content sharing like videos, photographs, text posts etc. IT Cell is maintaining the various platforms of social media of AIIMS Bathinda to enable better outreach with people.
12. **Facebook (FB) & Twitter.**
- (a) Official FB page <https://www.facebook.com/AIIMSbathinda/>, Twitter(<https://www.twitter.com/AIIMSbathinda/>), Instagram(<https://www.instagram.com/AIIMSbathinda/>) of AIIMS Bathinda regularly posts on these platforms, related to patient care, events, important days, Lectures etc.
13. **YouTube.** Official Page on YouTube (<https://www.youtube.com/AIIMSbathinda/>) is used to interact with people for patient welfare through videos using Video Lectures, Exercise videos etc. IT Cell is managing all the social media platforms of AIIMS Bathinda.
14. **Data Center.** The IT Cell has successfully procured the essential equipment for the in-house data **center** at AIIMS Bathinda, and the installation has been completed. The critical Hospital Information Management System (eSushrut) is now being hosted effectively from AIIMS Bathinda's in-house data center, with the IT Cell responsible for managing its services.
15. **Procurement in IT Store.** The IT Cell has procured IT-related equipment and items through both the GeM portal and direct purchasing channels. This strategic procurement approach ensures that our organization has access to the necessary technological resources including consumables and non-consumables required for optimal functionality.



MEDIA CELL

1. The Media Cell at AIIMS Bathinda has been instrumental in effectively disseminating institute-related information to local, national, and international media, ensuring continuous communication for the benefit of the general public. Additionally, Media Cell is:-

- (a) Distributing the press release in English, Hindi, and various regional languages.
- (b) Coordinating photography and videography for special events.
- (c) Providing assistance to visiting guests, delegations, and dignitaries.
- (d) Archiving all material and photographs in digital format for record-keeping.

2. The following person has been nominated vide office order AIIMS/BTI/Admin/OO/1533 dated 26 July 2023.

<u>Name</u>	<u>Designation</u>	
Prof. (Dr.) Tarun Goyal	Professor & Head, Department of Orthopedics	Public Relation Officer (PRO) and Official Spokesperson

RTI CELL

1. **Established.**

- (a) RTI Cell was set up at AIIMS Bathinda in the year 2020.

2. **Faculty/Staff deputed in the RTI Cell.**

(a) RTI Cell was set up with the approval of Director, AIIMS Bathinda and Nodal Officer, AIIMS Bathinda which consists of the following members:-

- (i) Col. Rajeev Sen Roy - First Appellate Authority cum Deputy Director (Admin).
- (ii) Er. Rakesh Singla - Nodal Officer (RTI Online Portal).
- (iii) Dr. Rattan Singh - CPIO, RTI Cell.

3. **Preparation of RTI SoPs.**

(a) A meeting of RTI Cell was held in the month of July, 2020 in which the SoPs and other rules/formats of RTI Cell were prepared and sent to the Director, AIIMS Bathinda for approval.

(b) The SoPs were duly approved by the Director, AIIMS Bathinda and were implemented accordingly by the RTI Cell.

4. **RTI Cell Record (1st April 2023 to 31st Mar 2024).**

- (a) No. of RTI Applications received - 191.
- (b) No. of RTI Applications replied - 191.
- (c) No of RTI Reply Pending - Nil.



HORTICULTURE CELL



PLANTATION HAS BEEN CARRIED OUT THROUGHOUT THE CAMPUS WITH A VARIETY OF PLANTS, AND TREES THROUGH MEGA PLANTATION DRIVES ON VARIOUS DAYS CELEBRATED IN THE INSTITUTE UNDER THE ABLE GUIDANCE OF THE HON'BLE EXECUTIVE DIRECTOR, AIIMS BATHINDA





EXAMINATION CELL

1. **Established.**
 - (a) Examination Cell was set up temporarily in the OPD Building, AIIMS Bathinda in the year 2020.
 - (b) Examination Cell Shifted in Ground floor, Medical College AIIMS Bathinda in the year 2021.
 - (c) One Examination Hall with the seating capacity of 100 students.
2. **Objective.**
 - (a) Take all necessary steps to ensure timely, smooth and transparent conduct of examination (U.G. & P.G.) with desired credibility and uniformity.
 - (b) To co-ordinate with the faculty of the institution and the constituent colleges to ensure compliance with the objective above.
 - (c) To maintain the record of all pre and post examination activities along with the batch-wise, (Paper setting, moderation, valuation & timely declaration of the result).
3. **Faculty/Staff deputed in the Examination Cell.** The faculty/staff of Examination Cell consists of the following members:-
 - (a) Prof. (Dr.) Gitanjali – Dean (Examination).
 - (b) Dr. Ajay Kumar – Associate Dean (Examination).
 - (c) Er. Rakesh Singla – Assistant Controller of Examination.
4. **A list of Coordinator in the Examination Cell for smooth conduction of Various Professional Examination.**
 - (a) Dr. Bhawana, Assistant Professor AIIMS Bathinda coordinates for 1st Professional MBBS Examination.
 - (b) Dr. Apurva Patra, Associate Professor coordinates for 2nd Professional MBBS Examination.
 - (c) Dr. Jyoti Barwa, Additional Professor & Dr. Ankita Soni , Associate Professor coordinates for 3rd Professional Examination.
 - (d) Sh. Atul Sharma, Assistant Professor AIIMS Bathinda Coordinates for all B.Sc. (Hons.) Nursing Examination.
 - (e) Dr. Sonia Kochhar, Additional Professor, Dr. Gagandeep Kwatra Additional Professor & Dr. Niket Verma, Assistant Professor coordinates for MD/MS Examination.
5. **Preparation of MBBS Examination SoPs.**
 - (a) SoPs of Examination are passed in first standing Academic Committee in 2022.
 - (b) Rules of Examination are finalized for conduction of the 3rd Professional (Part II) Examination M.B.B.S. Batch 2019.
 - (c) Finalized the format of Internal Examination Sheets and Printing of Answer sheets.
 - (d) Various updating for the Format of Answer Booklets for MBBS Professional.
 - (e) Examination was finalized by the Examination Committee and was approved by the Director, AIIMS Bathinda.
 - (f) Prepare & use the OMR Sheets in Limited Departmental Competitive Examination.
6. **Professional Examination of UG (MBBS Course).**
 - (a) Third Professional (Part-I) Supplementary MBBS Examination Batch 2019 was conducted in the month of April 2023 & declared the result in AIIMS Bathinda.
 - (b) Third Professional MBBS Examination (Part-II) Batch 2019 was conducted on December 2023 & declared the result.



- (c) Third Professional Supplementary MBBS Examination (Part-II) Batch 2019 was conducted on February 2024 & declared the result.
- (d) Second Professional Supplementary MBBS Examination Batch -2020 was held in the month of May, 2023 in AIIMS Bathinda & declared the Result.
- (e) First Professional Supplementary MBBS Examination Batch – 2021 was conducted in the month of March, 2023 & declared the result.
- (f) First Professional MBBS Examination Batch-2022 & Re-Supplementary Examination was held in the month of December 2023 & declared the result.
- (g) First Professional Supplementary Batch -2022 & Re-Supplementary MBBS Examination Batch – 2021 was held in the month of February, 2024 in AIIMS Bathinda & declared the result.
7. **Professional Examination B.Sc. (Hons.) Nursing.**
- (a) Phase -I Supplementary Professional B.Sc. (Hons.) Nursing Examination Batch -2021 conducted in the of September 2023.
- (b) Phase -II Professional B.Sc. (Hons.) Nursing Examination Batch -2021 conducted in the of December ,2023.
- (c) Phase-I Professional Supplementary B.Sc. (Hons.) Examination Batch - 2021 was conducted in the Month of April ,2024.
- (d) Phase-II Supplementary Professional B.Sc. (Hons.) Nursing Examination Batch-2021 conducted in the month of February 2024.
- (e) Phase -I Professional B.Sc. (Hons.) Nursing Examination Batch -2022 conducted in the of September 2023.
- (f) Phase -I Supplementary Professional B.Sc. (Hons.) Nursing Examination Batch -2022 conducted in the of November 2023.
- (g) Phase-I Professional B.Sc. (Hons.) Nursing Examination Batch-2022 held on December 2023.
8. **Limited Departmental Competitive Examination (LDCE).**
- (a) The promotional exams were conducted for the first time in AIIMS Bathinda by exam cell. To maintain sanctity of the exam it was conducted with full confidentiality and under continuous monitoring.
- (b) Limited Departmental Competitive Examination for the post of Personal Assistant was smoothly conducted in the first week of January 2024 at AIIMS Bathinda.
- (c) Limited Departmental Competitive Examination for the post of Junior Admin Assistant was smoothly conducted in the in the 3rd week of January 2024, at AIIMS Bathinda.
- (d) Limited Departmental Competitive Examination for the post of Senior Admin Assistant was smoothly conducted in the 3rd week of January 2024, at AIIMS Bathinda.
9. **Future Planning.**
- (a) Planning to process the works of Examination Cell on LMS software such as submission of Professional Examination form and also result will be published through software.
- (b) Planning to conduct DM/MCH/MD/MS Exam and preparation/finalization of format as DM/MCH/MD/MS is scheduled tentatively in December 2024.
- (c) To enhance the checking/evaluation of answer booklet timely and keeping the secrecy intact, Table Marking will be started as soon as possible in the Examination Cell.
- (d) MCQ papers will be checked through OMR machines.
- (e) For meticulous record keeping compactors will be purchased.
- (f) OMR machine with the software will be purchased for quick and accurate checking of all the MCQ answer sheets for all professional Examinations.



HOSPITAL INFECTION CONTROL COMMITTEE

1. Under the guidance of our worthy Director, Prof Dr. Dinesh Kumar Gupta, the Hospital Infection Control Committee was formulated on 29 August 2020. As new senior faculty members joined AIIMS Bathinda, the committee was reconstituted on 22 March 2022 by Prof Anil Goel, Medical Superintendent.

Sr.	Name	Designation	Department	Role
(a)	Prof. (Dr.) Rajiv Kumar	Medical Supdt.	MS Office	Chairman
(b)	Dr. Kamla Kant	Associate Professor	Microbiology	Member-Secretary
(c)	Prof. (Dr.) Lajya Devi Goyal	Professor & Head	Obstetrics & Gynaecology	Member- Core Committee
(d)	Prof. (Dr.) Anju Grewal	Professor & Head	Anaesthesiology	Member- Core Committee
(e)	Prof. (Dr.) Tarun Goyal	Professor & Head	Orthopedics	Member- Core Committee
(f)	Dr Moonis Mirza	Associate Professor	Hospital Administration	Member- Core Committee
(g)	Dr. Purshottam	Assistant Professor	Hospital Administration	Member- Core Committee
(h)	Prof. (Dr.) Kamlesh Kumari Sharma	Principial	INER	Member- Core Committee
(j)	Dr. Sivanatham K	Associate Professor	Microbiology	Member- Core Committee
(k)	All HODs from Medical Disciplines			Member
(l)	All HODs from Surgical Disciplines			Member
(m)	All OICs of Supporting Services			Member
(n)	Infection Control Nurse			Member
(o)	Representative of Estate/ Engineering Department			Member



IMPORTANT ACTIVITIES UNDER HICC

Date	Event	Activities Done
19-04-2023	Training to academic students	Induction Class was taken on BMW management and Hand Hygiene for nursing students.
May-2023 onwards	HAI Surveillance	CLABSI Surveillance as a part of HAI India Network from New Delhi-ICMR-CDC
01/05/2023 to 05/05/2023	Training - celebration	World Hand Hygiene Week : Sensitization was done in OPD and IPD to HCWs and patient attendants.
02-05-2023	Training to academic students	Induction Class was taken on BMW management and Hand Hygiene for nursing students.
09-05-2023	Training to academic students	Induction Class was taken on Environmental sampling and spill management and overview to occupational exposure for nursing students.
17-05-2023	Training to HCWs	SA training session on BMW management, cleaning and sanitation, hand hygiene, spill management and needle stick injury was taken.
23/05/2023	Training to HCWs	SA training session on BMW management, cleaning and sanitation, hand hygiene, spill management was taken.
24/05/2023	Training to HCWs	SA training session on BMW management, cleaning and sanitation, hand hygiene, spill management was taken.
25/05/2023	Training to HCWs	SA training session on BMW management, cleaning and sanitation, hand hygiene, spill management was taken.
29/05/2023	Certificate workshop attended	Online training session conducted by HAI India on CLABSI, CAUTI, VAP, SSI REGARDING DATA COLLECTION AND CASE REPORT FORMS WAS TAKEN.
30/05/2023	Certificate workshop attended	Online training session conducted by HAI India on CLABSI, CAUTI, VAP, SSI REGARDING DATA COLLECTION AND CASE REPORT FORMS WAS TAKEN.
31/05/2023	Certificate workshop attended	Online training session conducted by HAI India on CLABSI, CAUTI, VAP, SSI REGARDING DATA COLLECTION AND CASE REPORT FORMS WAS TAKEN.
27/6/2023	Environmental sampling	Settle plate method and moist swab direct inoculation sampling done from various surfaces in OT-9.
29/06/2023	Environmental sampling	Settle plate method and moist swab direct inoculation sampling done from various surfaces in OT-7.
30/6/2023	Environmental sampling	Settle plate method and moist swab direct inoculation sampling done from various surfaces in OT-7.
01-07-2023	Environmental sampling	Settle plate method and moist swab direct inoculation sampling done from various surfaces in OT-7.
03-07-2023	Training to HCWs	SA training session on BMW management, cleaning and sanitation, hand hygiene, spill management and needle stick injury was taken.
05-07-2023	Environmental sampling	Settle plate method and moist swab direct inoculation sampling done from various surfaces in OT-2.



07-06-2023	HCW screening	Finger tip impression sampling of HCWs was done in OT-2.
25/08/2023	Training to HCWs	SA training session on BMW management, cleaning and sanitation, hand hygiene, spill management and needle stick injury was taken.
15/09/2023	HCW screening	Finger tip impression sampling of HCWs was done from OT complex.
16/09/2023	Training to HCWs	Training session on BMW management, hand hygiene was taken for HCWs at pulmonary ward.
19/09/2023	Training to academic students	Induction training for MBBS Batch 2023 at Auditorium (BMW management, PPE, Hand Hygiene).
22/09/2023	Dept level IPC Training	Demonstraion has been given regarding infection control measures during lumbur puncture procedure at Neurology OPD.
15/09/2023 to 02/10/2023	Full Campus	swachhta pakhwada 2023 Week activities
03-10-2023	Training to HCWs	Demonstration and re-demonstration on BMW MANAGEMENT disinfection and sterilization and spill management was done for Nursing Officers batch 2023
18/10/2023	Training to HCWs	Induction training was given to nursing officers(new joinees) on BMW management, disinfection, sterilization, spill management.
18/11/2023	Training - celebration	Handhygiene session was given at antimicrobial stewardship programme as req by pharmamacology department -World Antibiotic Awareness Week (WAAW) celebration
29/12/2023	HCW screening	Finger tip impression sampling of HCWs was done from CTVS Units.
01-01-2024	Dept level IPC Training	Training session regarding hand hygiene for HCWs was done in Oncology ward.
02-01-2024	Training to academic students	Induction trainig of Interns (MBBS Batch 2020) on BMW management and Hand Hygiene.
17/01/2024	Envirnomenal sampling	Settle plate method and moist swab direct inoculation sampling done from various surfaces in SICU-2.
18/01/2024	Envirnomenal sampling	Settle plate method and moist swab direct inoculation sampling done from various surfaces in SICU-2.
19/01/2024	Envirnomenal sampling	Settle plate method and moist swab direct inoculation sampling done from various surfaces in SICU-2.
23/01/2024	Training to HCWs	Induction training on BMW segregation and Disinfection was for Nursing Officers (new joinees) as requested by INER team.
09-02-2024	Envirnomenal sampling	Settle plate method and moist swab direct inoculation sampling done from various surfaces in OT-7.
10-02-2024	Envirnomenal sampling	Settle plate method and moist swab direct inoculation sampling done from various surfaces in OT-7.



20/02/2024	Training to academic students	Induction Class was taken on BMW management and Hand Hygiene for nursing students.
28/02/2024	Training to HCWs	Workshop session on BMW Management, Spill Management, NSI conducted by INER team and TNAI was attended.
11-03-2024	HCW screening	Finger tip impression sampling of HCWs was done from OT COMPLEX AND ICUs.
16/03/2024	Training to HCWs	SA training session on BMW management, disinfection, cleaning and sanitation, hand hygiene, spill management and needle stick injury was taken.
19-03-2024	HCW screening	Finger tip impression sampling of HCWs was done from OT COMPLEX AND ICUs.
23/03/2024	Training to HCWs	SA training session on BMW management, disinfection, cleaning and sanitation, hand hygiene, spill management and needle stick injury was taken.
30/03/2024	Training to academic students	Induction training MBBS session on BMW management, disinfection, cleaning and sanitation, hand hygiene, spill management and needle stick injury was taken.
30/03/2024	Training to HCWs	SA training session on BMW management, disinfection, cleaning and sanitation, hand hygiene, spill management and needle stick injury was taken.



VIGILANCE CELL

1. **Chief Vigilance Officer.**

(a) Dr. Sonia Kochhar.

2. **Member Secretary.**

(a) Dr. Anju Chaudhary

3. **Committee Members.**

(a) Dr. Sapna Marcus Bhatti.

(b) Dr. Jyoyti Barwa.

(c) Dr. Madhur Verma.

(d) Dr. Saket Jitender Sinha.

(e) Dr. Rachna Rohilla.

4. AIIMS Bathinda celebrated the vigilance awareness week between **30th Oct 2023 - 5th November, 2023** with the theme "**Say no to corruption; commit to the Nation**".

5. The observance of the Vigilance Awareness Week commenced with the Integrity Pledge presided over by the executive director and CEO, Dr. D. K. Singh. Doctors, nurses and medical students collectively participated in the prevention of, and the fight against corruption and to raise public awareness regarding the existence, causes and gravity of and the threat posed by corruption.

6. Under the guidance of Chief Vigilance Officer, Dr. Sonia Kochhar, the integrity pledge was administered to the faculty members and staff of AIIMS Bathinda. Faculty members who were engaged in hospital responsibilities took the E-integrity pledge on the CVC website.

7. Sensitisation programs were conducted for the faculty members (2nd November) and security personnel and other staff (4th November) where they were primed about the perils of corruption, its impact on the society, and collective responsibility of all stakeholders to make our workplace corruption free. Community awareness programs were conducted in the form of Nukkad skit at Meritorious School in Bathinda and in the AIIMS Bathinda OPD (1st November) where people were made aware of the malpractices in healthcare delivery, the need to be vigilant and report such matters to the authorities.

8. Various competitions, based on the current year's theme, were organized during the week such including Rangoli (31st October), Poster making, Cartoon making and Faculty Quiz (3rd November). There was enthusiastic participation from medical/ nursing students and faculty.

9. The valedictory evening organised on 4th November was graced by Chief Guest Shri Suresh Kumar Goyal, Secretary, District Legal Services Authority, Bathinda. He spoke on the need for continued vigilance and emphasized on the role played by young doctors in actively preventing corruption. He also enumerated various judicial remedies available to the patients visiting the hospital emergencies. The week concluded with an awareness walk conducted within the campus on the morning of 5th November which saw participation by students, resident doctors and faculty members.



PATRON



Prof. (Dr.) D. K. Singh
Director and CEO, AIIMS, Bathinda



CO-PATRON
DR. AKHILESH PATHAK
Dean



CO-PATRON
DR. RAJIV KUMAR GUPTA
Medical Superintendent




CO-PATRON
LT. COL. BAJEEV SEN ROY
Deputy Director Administration

ORGANISING CHAIRPERSON
Dr Sonia Kochhar
Chief Vigilance Officer

ORGANISING SECRETARY
Dr Anju Choudhary

ORGANISING COMMITTEE MEMBERS
Dr. Sapna Marcus Bhatti
Dr. Jyoti Barwa
Dr. Madhur Verma
Dr. Saket Sinha
Dr. Rachna Rohilla



ALL INDIA INSTITUTE OF MEDICAL SCIENCES (AIIMS), BATHINDA
celebrating
VIGILANCE AWARENESS WEEK
From 30th October to 05th November 2023
with the theme of
भ्रष्टाचार का विरोध करें : राष्ट्र के प्रति समर्पित रहें
ਕ੍ਰਿਸ਼ਟਾਚਾਰ ਦਾ ਵਿਰੋਧ ਕਰੋ: ਰਾਸ਼ਟਰ ਨੂੰ ਸਮਰਪਿਤ ਰਹੋ
Say no to corruption; commit to the Nation

EVENTS
INTEGRITY PLEDGE BY FACULTY & STAFF
POSTER COMPETITION
QUIZ COMPETITION
NUKKAD NATAK
COMMUNITY AWARENESS PROGRAM
VIGILANCE AWARENESS WALK

HIGHLIGHTS OF VIGILANCE WEEK 2024





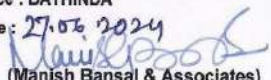
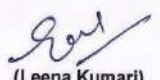



FINANCE DIVISION



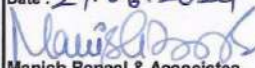


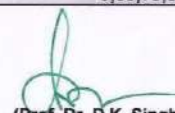
BALANCE SHEET AS AT 31.03.2024

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA			
BALANCE SHEET AS AT 31.03.2024			
(Amount in Rs.)			
Particulars	Schedule	Current Year	Previous Year
Corpus/Capital Fund and Liabilities			
Corpus/Capital Fund	1	7,51,87,48,197.95	7,27,85,76,145.51
Reserve & Surplus	2	-	1.00
Earmarked/Endowment/Corpus Fund	3	5,94,37,532.69	14,94,11,332.60
Secured Loans & Borrowings	4	-	-
Unsecured Loans & Borrowings	5	-	-
Deferred Credit Liabilities	6	-	-
Current Liabilities & Provisions	7	33,23,43,160.16	19,97,04,290.11
TOTAL		7,91,05,28,890.80	7,62,76,91,769.22
ASSETS			
Fixed Assets - Net Block	8	6,86,97,97,395.37	6,92,13,61,871.48
Investment - From Earmarked/Endowment Fund	9	-	-
Investment -Others	10	-	-
Current Assets, Loans , Advances etc.	11	1,04,07,31,495.43	70,63,29,897.74
Miscellaneous Expenditure- Incidental			
TOTAL		7,91,05,28,890.80	7,62,76,91,769.22
Significant Accounting Policies	24		
Contingent Liabilities & Notes on Accounts	25	10,04,45,155.00	6,89,79,579.00

Place : BATHINDA			
Date : 27.06.2024			
(Manish Bansal & Associates) Chartered Accountant	(Leena Kumari) Accounts Officer	Deputy Director(Admin.)	(Prof. Dr. D.K. Singh) Executive Director



INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2024

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA			
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31-03-2024			
(Amount in Rs.)			
Particulars	Schedule	Current Year	Previous Year
INCOME			
Income from Sales/Services	12	35,47,17,045.18	15,85,89,389.00
Grant/Subsidies	13	2,73,05,10,937.34	2,07,70,48,664.39
Fees/Subscriptions	14	35,21,077.00	44,17,265.00
Income from Investments (Income on Invest. From earmarked/endow. Funds transferred to Funds)	15	-	-
Income from Royalty, Publications	16	-	-
Interest Earned	17	1,47,07,443.09	-
Other Income	18	1,57,06,638.34	90,48,124.47
Increases/Decrease of Finished Goods & WIP	19	-	-
TOTAL (A)		3,11,91,63,140.95	2,24,91,03,442.86
EXPENDITURE			
Establishment Expenses	20	1,33,71,61,706.00	98,85,60,320.40
Other Administrative Expenses	21	70,15,68,059.66	42,16,09,308.14
Expenditure on Grants, Subsidies etc.	22	-	-
Interest	23	-	-
Depreciation (Net total at the year end corresponding to Sch.-8)	13	82,15,52,744.34	73,52,01,629.95
TOTAL (B)		2,86,02,82,510.00	2,14,53,71,258.49
Balance being excess of Income over Expenditure	(A-B)		
Transfer to Special Reserve (Specify each)		0.00	0.00
Transfer to/ from General Reserve			
BALANCE BEING SURPLUS / (DEFICIT)			
CARRIED TO CORPUS/CAPITAL FUND		25,88,80,630.95	10,37,32,184.37
Significant Accounting Policies	24		
Contingent Liabilities & Notes on Accounts	25	10,04,45,155.00	6,89,79,579.00
Place : BATHINDA			
Date : 27.06.2024			
 Manish Barisal & Associates Chartered Accountant	 (Leena Kumari) Accounts Officer	 Deputy Director(Admin.)	 (Prof. Dr. D.K. Singh) Executive Director



RECEIPT & PAYMENT FOR THE YEAR 01-04-2023 TO 31-03-2024

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA					
RECEIPT & PAYMENT FOR THE YEAR 01-04-2023 TO 31-03-2024					
RECEIPTS	Amount in Rs.		PAYMENTS	Amount in Rs.	
	Current Year 31.03.2024	Previous Year 31.03.2023		Current Year 31.03.2024	Previous Year 31.03.2023
I. Opening Balance - Institute			I. Expenses		
a) Cash in Hand	-	7,930.00	Establishment Expenses		
b) Bank balances :			Salary & Wages	1,24,12,13,028.00	95,36,11,196.40
SBI Account-74890	4,806.10	14,18,846.00	Allowance & Bonus (Transfer TA / LTC)	1,73,68,622.00	3,92,46,223.00
Canara Bank Escrow Account	-	64,04,551.00	Expenses on Employees Retirement and Terminal Ben	1,51,069.00	4,21,355.00
Imprest to staff	1,64,717.00	4,31,200.00			
SBI Bank -94104 CLTD	19,58,76,618.00	3,50,00,000.00	Administrative Expenses		
Saving Acc 77772	94,116.00	91,619.00	Electricity & Power Bill	14,27,99,541.00	11,63,65,891.00
SBI GAP-94375	-	1,121.00	Chemical & Hospital consumables Exp	11,65,22,350.00	5,68,34,809.00
SBI HR-94104	9,42,544.00	3,21,640.00	Telephone & Internet exp	9,97,968.00	11,89,904.00
SBI-AIIMS BATHINDA 61873	3,42,312.00	4,53,962.00	Printing & Stationery	82,97,962.00	41,51,924.00
SBI Bank -61873 CLTD	4,29,65,644.00	96,00,000.00	Ayushman Scheme related exp	9,65,83,698.00	1,64,43,961.00
GAP Imprest	29,353.00	90,000.00	Auditors remuneration	-	2,76,260.00
SBI Main 74890 A/c-CLTD	16,79,82,377.70	37,89,20,208.40	Statutory Registration Expenses	15,57,331.00	17,62,086.00
SBI Gem pool Account	73,16,596.00	2,50,59,001.00	Chemical & Hospital consumables Exp - ECRP	-	22,15,110.00
			Laundry & CSSD	26,14,129.00	17,34,566.00
II. Grants received			Postage	31,848.30	33,290.40
Grant-in-Aid (For salary)	1,30,00,00,000.00	96,36,77,350.00	Advertisement & Publicity Exp	99,180.00	46,635.00
Grant-in-Aid (For General)	59,00,00,000.00	28,99,99,999.70	Travelling Expenditure	9,14,599.00	12,51,901.00
Grant-in-Aid (For Creation of capital assets)	30,70,00,000.00	10,00,00,000.00	Outsource Manpower	22,96,35,583.00	12,17,36,290.00
Grant-in-Aid (For SAP)	2,00,00,000.00	-	General Consumables Store	33,71,434.00	19,14,147.00
Grant-in-Aid (For Institute Projects)	2,32,70,084.00	3,87,54,051.00	Local Transport/Vehicle/Ambulance Expenses	37,30,334.00	21,21,883.00
MPLAD Fund	5,00,000.00		Honorarium	8,54,675.00	6,40,690.00
			Water Charges	2,73,422.00	1,19,819.00
III. Interest received			Department Contingency	4,30,263.00	4,18,900.00
Interest Received from Term Deposit - Canara Bank		61,282.00	Biomedical waste	5,94,054.00	4,62,257.00
Interest Received from Term Deposit - Sbi bank 74890	16,00,076.30	1,51,51,711.00	Travelling Allowance Conference	41,11,100.00	32,35,478.00
Interest Received from Term Deposit - Sbi bank 94104	34,37,266.99	18,03,365.00	Nitrya Jyoti Exp	-	1,02,749.00
Interest Received from Term Deposit - Sbi bank 61873	24,13,629.00	4,28,434.00	Website/ Computer & Software maintenance	3,57,01,717.00	1,24,48,039.00
Interest Received from Saving Bank - 77772	383.00	16,519.00	Expenses on Seminar/Workshops/Training	1,08,26,356.25	10,19,534.00
Interest Received from Saving Bank - 18612	553.00		Repair and Maintenance Engineering	5,98,47,718.00	3,90,33,350.00
Interest Received from MPLAD Fund(61873)	4,250.00		Hospitality Expenses	6,50,928.00	2,71,529.50
			GiA SAP-Gen	1,09,88,932.00	15,03,113.00
IV. Project Fund			Medical Gases	57,16,022.00	
TDS Refund received - GAP-005	1,17,562.00		Sports Expense	1,64,852.00	
			Professional Charges	4,29,500.00	
V. Other Income			Misc Exp	3,75,933.81	
Admission Fees	18,01,420.00	31,47,039.00	SAP Advances	79,69,261.00	
Student fee security	3,96,000.00	3,02,000.00			
Registration Fee & Lab Test Charges	14,75,25,186.00	8,40,66,614.00	External Project Payments		
Guest House Rent	4,50,042.00	5,03,700.00	Project Exp	1,83,35,267.91	87,30,878.00
Recruitment Application Fees	7,87,105.00	3,91,510.00	Donation Exp	99,584.00	
Surety Bond Recovery	1,05,35,024.60	72,05,000.00			
Tender Fees	46,000.00	94,400.00	Expenditure on Fixed Assets		
Misc. Income - RTI	4,98,056.18	1,242.00	Electric Installation	1,88,622.00	
EMD & Other Security Deposits	2,08,77,150.00	28,71,412.00	Hospital Equipment	28,50,31,296.00	12,55,19,486.00
License Fee	8,64,484.00	6,49,539.00	Furniture & Fixtures	11,35,298.00	36,72,104.00
Rental Income	42,59,025.74	10,64,779.00	Office Equipment	4,68,501.00	99,936.00
GAP Overhead Income	4,72,510.00				
Ayushman Funds	20,65,71,303.00	7,39,32,533.00			

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RECEIPTS	Current Year	Previous Year	PAYMENTS	Current Year	Previous Year
	31.03.2024	31.03.2023		31.03.2024	31.03.2023
VI. Other Receipts			Computer Perpherial	92,58,661.00	2,17,23,204.00
Nitrya Jyoti Fund Received	-	1,04,000.00	Library books	86,54,870.00	5,19,31,497.00
Fund received towards poor patient	1,22,500.00	30,000.00	GIA SAP-Cap	10,41,807.00	66,56,038.00
Electricity,Water charges from rental sites & others	11,91,447.00		Capital Work In Progress(AIIMS)	88,50,000.00	
Electricity, Water charges & EHS from Staff and others	20,36,860.00	21,83,315.00	II.Other Payments		
TDS 192B,194C, GST-TDS and others	32,74,375.08	27,37,613.00	NSDL		1,36,72,972.00
Recovery From OM Sec.	-	3,50,000.00	Scholarship to Students		15,000.00
TDS /TCS/GST TDSrefunded by IT	8,63,364.82	3,420.00	Supplier payments made	1,04,06,218.00	2,87,194.00
Supplier payments received back	-	97,736.00	Suppliers (BSNL, NIC,Railtel,Punjab Health etc)	21,59,062.00	1,33,22,560.00
Cont. towards Ret. Benefits	15,35,981.00		Security Deposits (PSPCL)	83,91,599.00	
			EMD & Other Security Deposits	2,29,88,112.00	
			III.Refund/LAPSE of Surplus money:		
			HEFA Interest refunded back to Ministry	8,04,391.00	64,65,833.00
			Returned Back to MoHFW(salary grant)	3,28,82,225.00	
			Returned Back to MoHFW Interest	1,94,98,908.00	
			Surrender/Lapse CCA	3,66,57,679.00	
			Surrender/Lapse SAP	1,37,26,299.00	
			Surrender/Lapse ECRP-Gen.	72,33,294.00	
			Surrender/Lapse ECRP-Sal.	44,00,000.00	
			IV.Closing Balance Institute		
			SBI Bank -94104 CLTD	37,56,80,185.90	19,58,76,618.00
			SBI Bank -94104	2,94,777.00	9,42,544.00
			Cash in Hand	-	-
			SBI Bank -61873	14,63,838.09	3,42,312.00
			SBI Bank -61873 CLTD	4,78,81,755.00	4,29,65,644.00
			Imprest to staff	2,28,875.00	1,64,717.00
			GAP imprest	4,27,668.00	29,353.00
			SBI Gem Pool A/c	51,64,181.00	73,16,598.00
			SBI Main 74890 A/c	2,47,292.25	4,808.10
			SBI Main 74890 A/c - CLTD	13,75,00,000.00	16,79,82,377.70
			Savings Accounts - 77772	-	94,118.00
			SBI- AIIMS BATHINDA 18612	2,57,022.00	
			SBI Bank -18612 CLTD	20,00,000.00	
TOTAL	3,06,81,80,718.51	2,04,74,28,642.10	TOTAL	3,06,81,80,718.51	2,04,74,28,642.10

Place: Bathinda
Date: 27-06-2024.


(Manish Bansal & Associates)
Chartered Accountant


(Leena Kumari)
Accounts Officer


Deputy Director (Admin)


(Prof. Dr. D.K. Singh)
Executive Director



SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31.03.2024

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA				
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31.03.2024				
PARTICULARS	Current Year		Previous Year	
	(Rs.)	(Rs.)	(Rs.)	(Rs.)
SCHEDULE-1A CORPUS FUND -				
Balance as at the beginning of the Year	10,32,12,684.37		-	
Add Contribution towards Corpus/Capital fund	25,88,80,633.95		10,37,32,184.37	
Add HEFA Assets depreciation				
Less Prior period transactions	-3,75,933.00		-5,19,500.00	
		36,17,17,385.32		10,32,12,684.37
SCHEDULE-1B CAPITAL ASSETS FUND				
Balance as at the beginning of the Year	24,27,32,949.00		5,80,72,972.00	
Add Contribution towards Capital Assets fund	30,85,40,974.00		22,82,37,266.00	
Add Contribution towards previous year capitalisation			-	
Less: Dep. transferred from the Income and Expenditure Account	-9,92,84,735.00	45,19,89,188.00	-4,35,77,289.00	24,27,32,949.00
SCHEDULE-1C CAPITAL ASSETS W.I.P. FUND -				
Balance as at the beginning of the Year	1,10,10,31,985.49		6,13,65,50,747.02	
Add Payment to HITES by MOHFW	57,10,28,115.00		43,50,00,000.00	
Add Interest earned by HITES during 22-23	-51,83,307.00		51,83,307.00	
less Other Security Deposits by HITES	-29,70,000.00			
Less Assets Capitalised during the year	-82,65,18,015.88	83,73,88,777.61	-5,47,57,02,068.53	1,10,10,31,985.49
SCHEDULE-1D CAPITAL ASSETS HITES				
Balance as at the beginning of the Year	5,83,15,98,526.65		1,04,79,40,884.07	
Add: Contribution towards Capital Assets fund	82,65,18,015.88		5,47,57,02,068.53	
Less: Dep. transferred for previous years	-7,11,65,686.17		-4,20,085.00	
Less: Dep. transferred from the Income and Expenditure Account	-72,22,68,009.34	5,86,46,82,847.02	-69,16,24,340.95	5,83,15,98,526.65
Less: Deletion during the year				
SCHEDULE-1E OTHER DEPOSITS HITES				
Balance as at the beginning of the Year	-			
Add: Contribution	29,70,000.00	29,70,000.00		
Balance		7,51,87,48,197.95		7,27,85,76,145.51

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ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA				
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31.03.2024				
PARTICULARS	(Amount in Rs.)			
	Current Year		Previous Year	
	(Rs.)	(Rs.)	(Rs.)	(Rs.)
SCHEDULE- 2 (RESERVE & SURPLUS)				
1. CAPITAL RESERVE				
As per last Account	1.00		1.00	
Add : Additions during the year (Nominal Value of FOC Items)	0.00		0	
Less : Deductions during the year	-1.00	-	-	1.00
Balance As At The Year End		-		1.00
2. REVALUATION RESERVE				
As per last Account	-		-	
Add : Additions during the year	-		-	
Less : Deductions during the year	-	-	-	-
Balance As At The Year End		-		-
3. SPECIAL RESERVE				
As per last Account	-		-	
Add : Additions during the year	-		-	
Less : Deductions during the year	-	-	-	-
Balance As At The Year End		-		-
4. GENERAL RESERVE				
As per last Account	-		-	
Add : Additions during the year	-		-	
Less : Deductions during the year	-	-	-	-
Balance As At The Year End		-		-
Total (1 to 4)		-		1.00



ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA				
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31.03.2024				
PARTICULARS	(Amount in Rs.)			
	Current Year		Previous Year	
	(Rs.)	(Rs.)	(Rs.)	(Rs.)
SCHEDULE - 3 EARMARKED/ENDOWMENT/CORPUS FUND				
<u>I. Grant-in-Aid For Salary</u>				
a) Opening balance of the funds	3,28,82,224.60		1,84,50,090.00	
b) Additions to the Funds:			96,36,77,350.00	
d) reversal of provision retirement benefit provision 21-22			3,93,15,105.00	
Less: Establishment Expenses during the year (Sch. 20)			-98,85,60,320.40	
Less: Returned Back to ministry	-3,28,82,225.00	-0.40		3,28,82,224.60
<u>II. Grant-in-Aid For General</u>				
a) Opening balance of the funds	-		5,66,79,551.34	
b) Additions to the Funds:	59,00,00,000.00		28,99,99,999.70	
Less: Grant charged to I&E	-59,00,00,000.00		-34,86,79,551.04	-
<u>III. Grant-in-Aid For Capital Creation</u>				
a) Opening balance of the funds	4,88,76,549.00		17,14,57,777.00	
b) Additions to the Funds:	30,70,00,000.00		10,00,00,000.00	
c) Surrender/Lapse	-3,66,57,679.00		-22,25,81,228.00	
Less: Capital expenditure during the year	-30,70,00,000.00	1,22,18,870.00		4,88,76,549.00
<u>IV. Grant-in-Aid For SAP</u>				
a) Opening balance of the funds	1,37,26,299.00		2,08,85,450.00	
b) Additions to the Funds:	2,00,00,000.00		-	
c) Surrender/Lapse	-1,37,26,299.00		-	
Less: Expenditure during the year - Capital	-10,41,807.00		-56,56,038.00	
Less: Expenditure during the year - General	-1,09,88,932.00		-15,03,113.00	
Less: Advances	-79,69,261.00		-	1,37,26,299.00
<u>V. Grant-in-Aid For HEFA Loan (Principal)</u>				
a) Opening balance of the funds	-		-	
b) Additions to the Funds:	-		-	
Less: Expenditure during the year	-		-	-
<u>VI. Grant-in-Aid For HEFA Loan (Interest)</u>				
a) Opening balance of the funds	8,04,391.00		72,08,942.00	
b) Additions to the Funds:			61,282.00	
c) Interest earned			-	
Less: Expenditure during the year	-8,04,391.00		-	
Less: Refunded back to MoHFW			-64,65,833.00	8,04,391.00
<u>VII. Grant-in-Aid For ECRP (General)</u>				
a) Opening balance of the funds	72,33,294.00		1,03,37,344.00	
b) Additions to the Funds:			-	
Less: Expenditure/Surrender during the year (Surrender in CY).	-72,33,294.00		-31,04,050.00	72,33,294.00
<u>VIII. Grant-in-Aid For ECRP (Salary)</u>				
a) Opening balance of the funds	44,00,000.00		44,00,000.00	
b) Additions to the Funds:			-	
Less: Expenditure/Surrender during the year (Surrender in CY).	-44,00,000.00		-	44,00,000.00
<u>IX. Grant-in-Aid For Institute Projects</u> (Sch 3 Annex)				
a) Opening balance of the funds	4,13,94,415.00		1,19,97,719.00	
b) Additions to the Funds:	2,42,99,465.00		3,89,22,127.00	
Less: Expenditure during the year	-1,84,75,216.91	4,72,18,663.09	-95,25,431.00	4,13,94,415.00
<u>X. Grant-in-Aid From Donations</u>				
a) Opening balance of the funds	94,160.00		77,599.00	
b) Additions to the Funds: Interest incl prev year	5,04,591.00		16,561.00	
Less: Expenditure During the year	-5,98,751.00		-	94,160.00
Total (I to X)		5,94,37,532.69		14,94,11,332.60

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ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA				
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31.03.2024				
PARTICULARS	(Amount in Rs.)			
	Current Year		Previous Year	
	(Rs.)	(Rs.)	(Rs.)	(Rs.)
SCHEDULE - 4				
(Secured Loans and Borrowings)				
1) Central Government		-		-
2) State Government (Specify)		-		-
3) Financial Institutions				
a) Term Loan (HEFA Loan)				
b) Interest Accrued and due		-		-
4) Banks				
a) Term Loan				
Interest due				
b) Other Loans (specify)				
Interest due				
5) Other Institutions and Agencies				
6) Debentures and Bonds				
7) Others (Specify)				
Total		-		-
SCHEDULE- 5				
(Unsecured Loans and Borrowings)				
1) Central Government		-		-
2) State Government (Specify)		-		-
3) Financial Institutions		-		-
4) Banks				
a) Term Loan				
b) Other Loans (specify)		-		-
5) Other Institutions and Agencies				
PGIMER CHANDIGARH		-		-
6) Debentures and Bonds		-		-
7) Fixed Deposits		-		-
8) Others (Specify)		-		-
Total		-		-

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ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA				
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31.03.2024				
PARTICULARS	Current Year		Previous Year	
	(Rs.)	(Rs.)	(Rs.)	(Rs.)
SCHEDULE - 6 (Deferred Credit Liabilities)				
a) Acceptance secured by hypothecation of capital equipment and other assets				
b) Others				
Total				
Schedule - 7 (Current Liabilities and Provisions)				
A. Current Liabilities				
1. Acceptances				
2. Sundry Creditors:				
a) Supplier	93,29,325.00		2,85,63,224.00	
b) Others (EMD/Security)	44,45,443.00		65,56,405.00	
c) MIS receipt		1,37,74,768.00		3,51,19,629.00
3. Advances Received (Hefa Repayment)				
4. Interest accrued but not due on:				
a) Secured Loans/borrowings				
b) Unsecured Loans/borrowings				
5. Statutory Liabilities:				
a) Overdue				
b) Others TDS 92B,94C & GST-TDS	62,56,679.36	62,56,679.36	29,65,562.00	29,65,562.00
6. Other current liabilities				
a) NSDL Payable	3,06,054.00		21,814.00	
b) Current Liability	55,14,061.60		28,79,021.38	
c) Expenditure over advance - HITES			-	
d) Student fee Security	12,17,500.00		8,21,500.00	
e) Interest payable to MoHFW	0.20		1,93,50,937.03	2,30,73,272.41
f) Cont. towards Ret. Benefits	15,35,981.00	85,73,596.80		
Total (A)		2,86,05,044.16		6,11,58,463.41
B. Provisions				
1. For Taxation				
2. Gratuity				
3. Superannuation/Pension				
4. Accumulated Leave Encashment				
5. Trade Warranties/Claim				
6. Salary & other expenditure Payable	30,37,38,116.00		13,85,45,826.70	
Total (B)		30,37,38,116.00		13,85,45,826.70
Total (A+B)		33,23,43,160.16		19,97,04,290.11

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ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31.03.2024												
(Amount in Rs.)												
SCHEDULE - 8 FIXED ASSETS												
Description	Gross Block					%	Depreciation				Net Block	
	Cost/valuation As at beginning of the year	Additions during the year		Deletion during the year	Cost/ valuation at the Year-end		As at the beginning of the year	On addition during the year	On Deductions During the year	Total up to the year end	As at the current year end	As at the previous year end
		>6 MONTH	<6 MONTH									
A. Fixed Assets (GiA)												
1.Land (Freehold)	1.00	-	-	-	1.00	-	-	-	-	-	1.00	1.00
2.Library Books	5,19,31,497.00	4,99,167.00	81,55,703.00	-	6,05,86,367.00	40.00	1,03,86,299.00	1,84,48,887.00	-	2,88,35,186.00	3,17,51,181.00	4,15,45,198.00
3.Hospital Equipments	16,67,78,783.00	8,91,75,092.00	20,11,79,449.00	-	45,71,33,324.00	15.00	2,08,00,000.00	5,03,61,540.00	-	7,11,61,540.00	38,59,71,784.00	14,59,78,783.00
4.Furniture & fixtures	1,34,80,155.00	5,41,483.00	10,42,193.00	-	1,50,63,831.00	10.00	22,30,320.00	12,31,241.00	-	34,61,561.00	1,16,02,270.00	1,12,49,835.00
5.Vehicles	1,01,19,238.00	-	-	-	1,01,19,238.00	15.00	26,71,758.00	11,17,122.00	-	37,88,880.00	63,30,358.00	74,47,480.00
6 Office Equipment	8,33,110.00	-	4,88,501.00	-	13,01,611.00	15.00	1,87,123.00	1,32,036.00	-	3,19,159.00	9,82,452.00	6,45,987.00
7 Computer Perpherial	3,71,00,184.00	76,41,941.00	36,85,709.00	-	4,84,27,814.00	40.00	1,32,71,072.00	1,33,25,555.00	-	2,65,96,627.00	2,18,31,187.00	2,38,29,092.00
8.Hospital Equipments (Life Saving)	1,50,46,717.00	-	4,91,76,208.00	-	6,42,21,925.00	40.00	30,09,143.00	1,46,49,871.00	-	1,76,59,014.00	4,65,62,911.00	1,20,36,574.00
9. Electric Installation	-	-	2,46,442.00	-	2,46,442.00	15.00	-	18,483.00	-	18,483.00	2,27,959.00	-
TOTAL OF CURRENT YEAR	29,52,88,665.00	9,78,57,683.00	26,39,54,205.00	-	65,71,00,553.00		5,25,55,715.00	9,92,84,735.00	-	15,18,40,450.00	50,52,60,103.00	24,27,32,950.00
B. Fixed Assets (HITES)												
Building*	5,84,60,87,340.00	40,84,18,673.28	-	1,03,11,14,494.74	5,22,33,91,518.54	10.00	76,46,99,835.00	48,26,26,848.60	10,74,79,929.52	1,13,98,46,754.08	4,08,35,44,764.46	5,08,13,87,505.00
Res. Building	-	53,00,72,774.53	-	-	53,00,72,774.53	5.00	-	5,39,63,863.70	-	5,39,63,863.70	47,81,08,910.83	-
Plant, Machinery & Equip.	-	55,99,18,300.09	-	-	55,99,18,300.09	15.00	-	15,53,77,328.27	-	15,53,77,328.27	40,45,40,971.82	-
Water Supply System	-	2,85,85,266.22	-	-	2,85,85,266.22	40.00	-	1,82,94,570.37	-	1,82,94,570.37	1,02,90,695.85	-
Computer Perpherial	42,62,881.00	5,31,747.12	-	-	47,94,628.12	40.00	35,26,255.12	6,34,968.31	-	41,61,223.43	6,33,404.69	7,36,625.88
Hospital Equipments (Life Saving)-I	42,77,393.70	5,33,557.42	-	-	48,10,951.12	40.00	35,38,260.21	6,37,129.78	-	41,75,389.99	6,35,561.13	7,39,133.49
Hospital Equipments (Life Saving)-II	5,45,59,237.60	2,05,72,699.71	8,22,24,769.00	-	15,73,56,706.31	40.00	2,19,60,534.00	3,93,46,873.33	-	6,13,07,407.33	9,60,49,298.98	3,25,96,703.80
Hospital Equipments General	94,28,78,203.86	13,95,25,675.26	8,15,17,218.00	-	1,16,39,21,097.12	15.00	22,67,41,645.18	14,94,58,859.67	-	37,62,00,504.85	78,77,20,592.28	71,61,36,558.69
Furniture & Fixtures	-	57,31,830.00	-	-	57,31,830.00	10.00	-	5,73,183.00	-	5,73,183.00	51,58,647.00	-
TOTAL OF CURRENT YEAR	6,85,20,65,056.16	1,69,38,90,523.62	16,37,41,987.00	1,03,11,14,494.74	7,67,85,83,072.04		1,02,04,66,529.51	90,09,13,625.03	10,74,79,929.52	1,81,39,00,225.02	5,86,46,82,847.02	5,83,15,96,526.65
CAPITAL WORK-IN PROGRESS (HITES)	6,32,27,32,463.36	-	-	36,30,25,949.48	5,95,97,06,513.88		-	-	-	-	48,40,04,445.35	84,70,30,394.83
CAPITAL WORK-IN PROGRESS (Inst.)	-	-	1,58,50,000.00	-	1,58,50,000.00		-	-	-	-	1,58,50,000.00	-
Total	6,32,27,32,463.36	-	1,58,50,000.00	36,30,25,949.48	5,97,55,56,513.88		-	-	-	-	49,98,54,445.35	84,70,30,394.83
Grand Total	13,47,00,88,184.52	1,79,17,48,206.62	44,35,48,192.00	1,39,41,40,444.22	14,31,12,40,138.92		1,07,30,22,244.51	1,00,01,98,360.03	10,74,79,929.52	1,96,57,40,675.02	6,86,97,97,395.37	6,92,13,61,871.48



ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA		
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31.03.2024		
PARTICULARS	(Amount in Rs.)	
	Current Year (Rs.)	Previous Year (Rs.)
SCHEDULE - 9		
(Investments from Earmarked/Endowment Funds)		
1) In Government Securities	-	-
2) Others approved Securities	-	-
3) Shares	-	-
4) Debentures and Bonds	-	-
5) Subsidiaries and joint ventures	-	-
6) Others (to be specify)	-	-
Total	-	-
SCHEDULE - 10		
(Investments Others)		
1) In Government Securities	-	-
2) Others approved Securities	-	-
3) Shares	-	-
4) Debentures and Bonds	-	-
5) Subsidiaries and joint ventures	-	-
6) Others (to be specify)	-	-
Total	-	-



ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA				
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31.03.2024				
PARTICULARS	Current Year		Previous Year	
	(Rs.)	(Rs.)	(Rs.)	(Rs.)
SCHEDULE - 11				
(CURRENT ASSETS, LOANS, ADVANCES ETC.)				
A. Current Assets				
1. Inventories				
a) Stores and Spares	5,12,96,355.00		92,76,758.00	
b) Loose Tools				
c) Stock-in-trade				
Finished Goods				
Work-in-progress				
Raw Materials		5,12,96,355.00		92,76,758.00
2. Sundry Debtors:	2,30,508.28		1,78,278.00	
a) Sundry Debtors/Receivable				
b) Grant Receivable from PGIMER-Capital				
c) Interest Receivable from PGIMER(HEFA)-Interest		2,30,508.28		1,78,278.00
3. Cash balances in hand (including cheques/drafts)				
4. Bank Balances:				
a) With Scheduled Banks:				
-On Current Accounts				
Main Grant A/c	2,47,292.25		4,808.10	
Gem Pool A/c	51,64,181.00		73,16,598.00	
-On Deposit Accounts (includes margin money)				
Main Grant -74890	13,75,00,000.00		16,79,82,377.70	
Receipt- 94104	37,58,80,185.90		19,58,76,618.00	
Ayushman 18612	20,00,000.00			
GAP - 61873	4,78,81,755.00		4,29,65,644.00	
-On Savings Accounts				
Receipt-94104	2,94,777.00		9,42,544.00	
Projects-61873	14,63,838.09		3,42,312.00	
Savings-7772	-		94,118.00	
Ayushman-18612	2,57,022.00	57,04,89,051.24		41,65,25,018.80
5. Cash In Hand				
Total (A)		62,20,16,914.52		42,49,80,055.80

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA				
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31.03.2024				
PARTICULARS	Current Year		Previous Year	
	(Rs.)	(Rs.)	(Rs.)	(Rs.)
SCHEDULE - 11				
(CURRENT ASSETS, LOANS, ADVANCES ETC.)				
B. Loans Advances and Other Assets				
1. Loan				
a) Imprest to staff	2,28,875.00		1,64,717.00	
b) Other Entities engaged in activities/ objectives similar to that of the Entity				
c) Other projects	4,27,668.00	6,56,543.00	29,353.00	1,94,070.00
2. Advance and other amounts recoverable in cash or in kind or for value to be received				
a) On Capital Account -HITES Limited Const	2,56,17,286.00		25,38,74,825.00	
a) On Capital Account -HITES Limited-Equip	32,76,40,178.60			
c) Others	3,63,34,090.00	38,95,91,554.60	1,92,66,365.00	27,31,41,190.00
3. Income Accrued:				
a) On Investments from Earmarked/Endowment Funds	12,15,435.00		9,14,047.78	
b) On Investments-CLTD Interest	1,53,50,863.00		55,96,389.03	
c) On Loans and Advances				
d) Others - Rental			33,384.00	
e) Others		1,65,66,298.00		65,43,820.81
4. Security Deposits	1,13,61,599.00			
5. TCS	2,32,434.31		1,98,543.13	
6. GAP TDS/TCS	2,17,716.00		2,85,628.00	
7. Tax Deducted at source	89,436.00		9,85,816.00	
8. GST TDS	0.00	1,19,01,185.31	774.00	14,70,761.13
Total (B)		41,87,15,580.91		28,13,49,841.94
Total (A+B)		1,04,07,31,495.43		70,63,29,897.74



SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT AS AT 31.03.2024

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA		
SCHEDULE FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31.03.2024		
PARTICULARS	(Amount in Rs.)	
	Current Year (Rs.)	Previous Year (Rs.)
SCHEDULE - 12		
(Income from Sales/Services)		
1. Income from sales		
a) Sale of Finished Goods		
b) Sale of Raw Material		
c) Sale of Scraps		
2. Income from Services		
a) Registration Fees & Lab Test Charges	14,75,25,186.00	8,41,71,614.00
b) Professional/Consultancy Service		
c) Agency Commission and Brokerage		
d) Maintenance Services (Equipment/Property)		
e) AYUSHMAN Registration Fees & Lab Test Charges	20,65,71,303.00	
f) FUND Towards Poor Patients	1,22,500.00	
e) Others	4,98,056.18	7,44,17,775.00
Total	35,47,17,045.18	15,85,89,389.00
SCHEDULE- 13		
(Grants/Subsidies)		
(Irrecoverable Grants & Subsidies Received)		
1. Central Government -		
a) Grant-in Aid (For Salary)	1,30,00,00,000.00	98,85,60,320.40
b) Grant-in Aid (For General)	59,00,00,000.00	34,86,79,551.04
c) Grant-in Aid (For Dep)	82,15,52,744.34	73,52,01,629.95
d) Grant-in Aid (For SAP)	1,89,58,193.00	15,03,113.00
e) Grant-in Aid (For ECRP Gen)		31,04,050.00
2. State Government		
3. Government Agencies		
4. Institutions/Welfare Bodies		
5. International Organisations		
6. Others (Specify)		
Total	2,73,05,10,937.34	2,07,70,48,664.39
SCHEDULE- 14		
(Fees/Subscriptions)		
1. Guest House Fees	4,60,042.00	5,03,700.00
2. Admission Fees	18,01,420.00	31,47,039.00
3. Recruitment Application Fees	7,87,105.00	3,91,510.00
4. Consultancy Fees/ Project Overhead	4,72,510.00	3,75,016.00
5. Others (Specify)		-
Total	35,21,077.00	44,17,265.00



ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA				
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31.03.2024				
PARTICULARS	Investment from Earmark Fund		Investment- Others	
	Current Year	Previous Year	Current Year	Previous Year
	(Rs.)	(Rs.)	(Rs.)	(Rs.)
SCHEDULE- 15				
(Income From Investments)				
1. Interest				
a. On Govt. Securities	-		-	
b. On other Bonds / Debentures	-		-	
2. Dividends				
a. On Shares	-		-	
b. On mutual Funds Securities	-		-	
3. Rent	-			
4. Others Specify				
Total				
SCHEDULE- 16				
(Income from royalty ,publication etc.)				
1. Income from Royalty	-	-	-	-
2. Income from Publications	-	-	-	-
3. Others (specify)	-	-	-	-
Total				

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA				
SCHEDULE FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31.03.2024				
PARTICULARS	Current Year		Previous Year	
	(Rs.)	(Rs.)	(Rs.)	(Rs.)
	SCHEDULE- 17			
(Interest Earned)				
1. On Term Deposit				
a) With Schedule Bank				
i) Interest Earned	1,46,44,399.09		-	
ii) Interest Accrued				
b) With Non-Scheduled Banks				
c) With Institutions	63,044.00	1,47,07,443.09		
d) Others				
2. On Savings Bank Account				
a) With Schedule Bank				
b) With Non-Scheduled Banks				
c) With Institutions				
d) Others				
3. On Loans				
a) Employees/Staff				
b) Others				
4. Interest on Debtors and Other Receivables				
Total		1,47,07,443.09		
SCHEDULE- 18				
(Other Income)				
a) Surety Bond Recovery	1,05,35,024.60		72,05,000.00	
b) Tender Fees	46,000.00		94,400.00	
c) Guest House Rent				
d) Licence Fee	8,64,484.00		6,49,539.00	
e) Miscellaneous Income			248.47	
g) Rental Income	42,61,129.74		10,98,937.00	90,48,124.47
Total		1,57,06,638.34		90,48,124.47



ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA				
SCHEDULE FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31.03.2024				
(Amount in Rs.)				
PARTICULARS	Current Year		Previous Year	
	(Rs.)	(Rs.)	(Rs.)	(Rs.)
SCHEDULE- 19				
(Increase / Decrease of Stock of Finished Goods & Work in progress)				
a. Closing Stock				
Finished Goods				
Work-in-progress		-		-
b. Less: Opening Stock				
Finished Goods				
Work-in-progress		-		-
NET INCREASE/(DECREASE) [a-b]		-		-
SCHEDULE- 20				
(Establishment Expenses)				
a. Salary and Wages	1,30,41,68,172.00		96,21,38,627.40	
b. Allowance & Bonus	3,28,42,465.00		2,60,00,338.00	
c. Staff Welfare Expenses				
d. Expenses on Employees Retirement and Terminal Benefits	1,51,069.00		4,21,355.00	
e. Others				
		1,33,71,61,706.00		98,65,60,320.40
Total		1,33,71,61,706.00		98,65,60,320.40

Sw



ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA		
SCHEDULE FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31.03.2024		
PARTICULARS	(Amount in Rs.)	
	Current Year (Rs.)	Previous Year (Rs.)
SCHEDULE - 21		
A) Administrative Expenses etc.		
Hospital Consumable Ayushman	10,83,34,299.00	2,52,71,642.00
Electricity & Power Bill	14,20,01,081.00	11,38,96,537.00
Telephone & Internet exp	9,97,988.00	11,89,904.00
Printing & Stationery	25,13,231.00	55,09,464.25
Chemical & Hospital consumables Exp	9,99,44,037.00	5,57,07,703.29
Website/ Computer & Software maintenance	2,88,38,446.00	1,14,67,406.00
Consumables Store	54,06,187.00	40,15,259.00
Laundry & CSSD	24,40,414.00	19,08,281.00
Postage	27,228.60	37,910.10
Advertisements & Publicity exp	99,180.00	46,635.00
Travelling Expenditure	3,06,494.00	5,04,948.00
Outsource Manpower	23,30,84,834.00	13,44,30,199.00
Traveling Allowance (External)	6,08,105.00	7,64,201.00
Local Transport/Vehicle/Ambulance Expenses	34,89,394.00	25,13,531.00
Honorarium	11,28,675.00	6,40,650.00
Water Charge	2,12,599.00	1,23,695.00
Department Contingency	4,33,263.00	3,83,641.00
Biomedical waste expenses	9,18,689.00	5,40,145.00
Auditors Remuneration		2,76,250.00
Travelling Allowance Conference	55,08,984.00	32,35,478.00
Expenses on Seminar/Workshops/Training	1,12,68,266.25	10,09,870.00
Repair and Maintenance Engineering	4,40,63,819.00	5,59,99,594.00
Hospitality Expenses	12,37,643.00	2,71,529.50
Statutory Registration Expenses	15,57,331.00	17,62,086.00
Rashtriya Netra Jyoti Abhiyan - Exp.	-	1,02,749.00
Medical Gases	64,15,927.00	
Sanitation Expenses	1,25,698.00	
Sports Expense	1,64,852.00	
Professional Charges	4,41,394.00	
Round off	0.81	
TOTAL	70,15,68,059.66	42,16,09,308.14

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BATHINDA		
SCHEDULE FORMING PART OF INCOME & EXPENDITURE ACCOUNT AS AT 31.03.2024		
PARTICULARS	(Amount in Rs.)	
	Current Year (Rs.)	Previous Year (Rs.)
SCHEDULE- 22		
(Expenditure on Grants, Subsidies etc.)		
a. Grants given to Institue / Organisation		0
b. Subsidies given to Institue / Organisation		0
TOTAL	-	-
SCHEDULE- 23		
(Interest)		
a. On Fixed Loans		-
b. On other Loans (including Bank Charges)		-
c. Others (specify)		-
TOTAL	-	-



SIGNIFICANT ACCOUNTING POLICIES

Schedule – 24

Introduction:

All India Institute of Medical Sciences, Bathinda (Punjab) is a Central autonomous body under aegis of Ministry of Health and Family Welfare under PMSSY Division. A Gazette Notification was issued on 04th Dec 2019 for establishment of the All India Institute of Medical Sciences at Bathinda in Punjab. The Government of Punjab transferred land measuring 175 acres to the Central Government in Nov, 2016 for establishment of AIIMS Bathinda.

The PGIMER, Chandigarh was the mentor institute of AIIMS, Bathinda and the OPD/IPD services of the Institute have been started.

1. Accounting Convention

The books of accounts of All India Institute of Medical Sciences, Bathinda (Punjab) have been maintained on the basis of Accrual basis of Accounting.

2. Inventory Valuation

The Inventory of the Institute i.e. stores & spares consumables has been valued at cost price. The costs have been worked out on the First in First Out (FIFO) method.

3. Fixed Assets

3.1. Fixed Assets are stated at historical cost of acquisition inclusive of inward freight, duties and taxes and incidental expenses relating to acquisition. In respect of projects involving construction, related pre-operational expenses (including interest on loans for specific project prior to its completion), form part of the value of the assets capitalized.

3.2. Fixed assets received by way of non-monetary grants (other than towards the Corpus Fund), are capitalized at values stated, by corresponding credit to Capital Reserve/Corpus Fund.

3.3. Fixed Assets received from the project Funds (HEFA & MOHFW) by the PSA are capitalized as per the installation in the Institute.

4. Depreciation

4.1. The depreciation has been provided in the books of accounts as per the W.D.V. method and rates specified are as per the Income Tax Act, 1961.


4.2. In respect of addition/deletion of assets during the year, are charged on half of the rate, where the addition/ deletion is less than six months and full rate of depreciation is charged, where the period exceeded six months.


5. Ayushman


5.1. Receipts from the State Health Agencies are accounted for as Income & corresponding exp. towards consumables are accounted for as expenditure.


Place: Bathinda

Date: 27.06.2024


(Manish Bansal & Associates)
Chartered Accountant


(Leena Kumari)
Accounts Officer


Dy. Dir. Admin


(Prof. Dr. D K Singh)
Executive Director



CONTINGENT LIABILITIES & NOTES ON ACCOUNTS

SCHEDULE - 25

1. Contingent Liabilities

The provision for contingent liabilities towards retirement benefits has been considered as per the Actuarial valuation.

2. Grant-in-Aid

Government Grants are accounted on realization basis. During the financial year 2023-24, Institute has received a total Grant-in-Aid of Rs. 221.7 Cr. from Ministry of Health and Family Welfare, PMSSY Division. Out of the total grant Rs.130.00 Cr. received under GIA-Salary, Rs.59.00 Cr. under GIA- General, Rs.30.70 Cr. under GIA-Capital and Rs. 2.00 Cr under GIA (SAP)[Refer Schedule 3].

(in Cr.)

GIA Head	F.Y. 2019-20	F.Y.2020-21	F.Y.2021-22	F.Y.2022-23	F.Y.2023-24
Salary	04.81	17.50	89.00	96.37	130.00
General	01.00	13.00	10.00	29.00	59.00
Capital	01.00	07.00	15.00	10.00	30.70
ECRP (GEN)	-	-	01.45	-	-
ECRP (SALARY)	-	-	00.44	-	-
SAP	-	01.00	02.00	-	2.00
Total	06.81	38.50	117.89	135.37	221.70

3. Investment & Deposits

The fund available in current account is kept in Corporate Liquid Term Deposit (CLTD) mode.

4. Interest Accrued but not due

The Interest accrued but not due comes to Rs. 1,65,66,298/- as on 31.03.2024 (Refer Sch. 11.B).

5. Taxation

The provision for tax is as per provisions of Income tax act1961.

**6. Expenditure Payable (Provision)**

A provision for expenses payable to the tune of Rs. 30,37,38,116/- has been made as on 31.03.2024 (Refer Schedule 7(B), this includes salary & other expenses.

7. Current Assets, Loans And Advances

Current assets, loan and advances has been stated in the balance sheet on actual transaction basis.

8. Secured Loans & Borrowings-

A term loan of Rs. 525 Cr. sanctioned by HEFA vide reference no. SAN/AIIMS/Bathinda/246/2018-19, the payable to HEFA has been paid fully in (21-22) financial year. Interest of which have been capitalized in current financial year.

9. Retirement and Other employee`s Benefits

The provision for leave encashment and gratuity has been mentioned in contingent liabilities as on 31.03.2024.

10. Capital Fund (Donation etc)

During the financial year 2023-24, Rs. 5,00,000 has been received as donation.

11. Foreign Currency Transactions

During the year Institute has not entered into any foreign currency transaction.

12. Fixed Assets

- a.) The Capitalization of Assets for establishment of AIIMS Bathinda Project funded by MoHFW & HEFA have been considered only as per records made available.
- b.) Buildings were handed over in 2019 and 2022, bifurcation further w.r.t SAR 22-23 (P&M, Res. Building & Water Supply system have been made with the accumulated depreciation in current year.
- c.) The HEFA interest amounting to Rs 62,13,65,081/- on account of assets handed over by HITES has been transferred from Capital Work in Progress to respective assets in proportion of gross value of assets.
- d.) The Government of Punjab has allotted 175 acres and the same has been shown in Fixed Assets (Schedule-8) at nominal value of Rs. 1.00.



e.) Security deposit of Rs 29.70 Lac towards Electricity cons. paid by HITES have been adjusted from Capital work in progress (sch.1 &8) in current Financial Year.

13. Reserve and Surplus

The nominal value of the land has been transferred to the corpus fund to make the uniform presentation to other assets.

14. An amount of Rs 11,28,000/- related to current financial year towards water and air license advance given to Punjab pollution control board (for 5 years) in FY 21-22, has been charged to Income and Exp A/c .

15. An expenditure of Rs 2,09,16,447/- forms part of previous financial years 21-23.

16. Schedule 1 to 25 are annexed to and form an integral part of the Balance Sheet as at 31.03.2024 and the Income and Expenditure Account for the year ended on that date.

17. Financial Statement and schedules has been compiled as per Uniform Format of Accounts for Central Autonomous Bodies and other AIIMS like Institutes.

18. As Treasury Single Account has been implemented in the institute from FY 2022-23 therefore recurring grant (Gen) and provisions of the Institute has been charged to Income and Expenditure Account.

Place: Bathinda

Date: 27.06.2024

(Manish Bansal & Associates)
Chartered Accountant

(Leena Kumari)
Accounts Officer

Dy. Dir. Admin

(Prof. Dr. D K Singh)
Executive Director



SEPARATE AUDIT REPORT FOR THE F.Y. 2023-24



भारतीय लेखापरीक्षा तथा लेखा विभाग
कार्यालय प्रधान निदेशक लेखापरीक्षा (केन्द्रीय), चण्डीगढ़

Indian Audit & Accounts Department
Office of The Principal Director of Audit (Central),
Chandigarh



SUPREME AUDIT INSTITUTION OF INDIA
Dedicated to Public Accountability

सं./No: पी.डी.ए.(सी)/के. व्यय/SAR/ 2024-25/AIIMS Bathinda/ 608

दि०/Dated: 28.10.2024

सेवा में,

सचिव,

Ministry of Health & Family Welfare,
Govt. of India,
Nirman Bhawan,
New Delhi-110001

विषय: All India Institute of Medical Sciences, Bathinda (Punjab) के वर्ष 2023-24 के लेखाओं पर पृथक लेखापरीक्षा प्रतिवेदन

महोदय,

कृप्या All India Institute of Medical Sciences, Bathinda (Punjab) के वर्ष 2023-24 के लेखाओं पर पृथक लेखापरीक्षा प्रतिवेदन (Separate Audit Report) संसद के दोनों सदनों के समक्ष प्रस्तुत करने हेतु सलंगन पाएं। संसद में प्रस्तुत होने तक प्रतिवेदन को गोपनीय रखा जाए।

संसद में प्रस्तुत करने के उपरांत प्रतिवेदन की पांच प्रतियाँ इस कार्यालय को भी भेज दी जाएं।

कृप्या इस पत्र की पावती भेजें।

भवदीय,

— हस्ता —

प्रधान निदेशक

✓ उपरोक्त की प्रति लिपी वर्ष 2023-24 की पृथक लेखापरीक्षा प्रतिवेदन की प्रति सहित आवश्यक कार्यवाही हेतु Director, All India Institute of Medical Sciences, Bathinda, Mandi Dabwali Road, Bathinda, Punjab – 151001 को प्रेषित की जाती है।

भवदीय,

उप-निदेशक (केन्द्रीय व्यय)



Separate Audit Report of the Comptroller & Auditor General of India on the Accounts of the All India Institute of Medical Sciences (AIIMS), Bathinda (Punjab) for the year ended 31 March 2024

We have audited the Balance Sheet of All India Institute of Medical Sciences, Bathinda (Punjab) as at 31st March 2024, Income and Expenditure Account and Receipts and Payments Account for the year ended on that date under Section 19(2) of the Comptroller and Auditor General's (Duties, Power and Conditions of Service) Act, 1971 read with Section 18(2) of the All India Institute of Medical Sciences (AIIMS) Act, 1956.

2. This Separate Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc., if any, are reported through Inspection Reports/ CAG's Audit Reports separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidences supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis 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 and Income and Expenditure Account/Receipts and Payments Account dealt with by this Report have been drawn up in the Uniform format prescribed by the Ministry of Finance, Government of India;
- iii) In our opinion, proper books of accounts and other relevant records have been maintained by the All India Institute of Medical Sciences, Bathinda (Punjab) in so far as it appears from our examination of such books.



iv) We further report that: -

**A. Balance Sheet
Corpus/Capital Fund and Liabilities
Current Liabilities and Provisions (Schedule 7)
Provisions: ₹3037.38 lakh**

i. The above does not include (i) the provision for liability towards gratuity payable on death / retirement of employees on actuarial basis ₹3.98 crore and (ii) the provision for liability towards accumulated leave encashment on actuarial basis ₹6.06 crore. This has resulted in understatement of Provisions by ₹10.04 crore. Establishment expenses for the year 2023-24 have been understated by ₹3.15 crore (Gratuity: ₹1.73 crore and leave encashment: ₹1.42 crore) and Prior period expenses have been understated by ₹6.89 crore (Gratuity: ₹2.25 crore and leave encashment: ₹4.64 crore). The 'Excess of Income over Expenditure' and Corpus Fund (Schedule 1A) are also overstated by ₹10.04 crore.

Further, the Institute has disclosed that the provision for contingent liabilities towards retirement benefits has been considered as per the Actuarial valuation and shown the entire provision of retirement benefits amounting to ₹10.04 crore as Contingent Liabilities (Schedule-25) in the annual accounts. This is in violation of Uniform Format of Accounts which *inter alia* requires that provision for Gratuity and Accumulated leave needs to be accrued on an actuarial basis and provided up to the year-end. Thus, contingent liabilities have also been overstated by ₹10.04 crore.

ii. The above does not include an amount of ₹128.02 lakh (Chemical and Hospital Consumables: ₹43.08 lakh, Laundry & CSSD: ₹7.78 lakh and Fixed Assets (Hospital Equipment): ₹77.16 lakh) payable on 31 March 2024.

Non-provision of the above expenditure has resulted in understatement of Expenditure by ₹50.86 lakh, Fixed Assets by ₹71.37 lakh (₹77.16 lakh less depreciation at the rate of 15 per cent for half year ₹5.79 lakh) and Provisions by ₹128.02 lakh. The 'Excess of income over expenditure' has also been overstated by ₹56.65 lakh.

**B. Income And Expenditure Account
Grant/Subsidies (Schedule 13): ₹273.05 Crore**

The depreciation charged on fixed assets is non-cash expenses and should be shown on expenditure side as per the format prescribed by Ministry of Finance. However, the Institute has included the Depreciation charged during the year amounting to ₹82.15 Crore under Income through Grants/Subsidies (Schedule 13) as 'Grant-in-aid (for



Depreciation). The Institute has added depreciation charges of ₹82.15 crore in income under Schedule 13 and charged ₹9.92 crore as depreciation in Corpus/Capital under Schedule 1B and ₹72.22 crore under Schedule 1D. Hence, the net effect on Corpus fund was nil. However, the inclusion of Depreciation expenses under Income has resulted in overstatement of Income and Surplus by ₹82.15 crore.

C. General

C.1 Net Impact of audit comments

1. The Corpus/Capital fund is overstated by ₹10.61 crore.
2. The Current liabilities and Provisions are understated by ₹11.32 crore.
3. The Assets are understated by ₹0.71 crore.

C.2 As per Rule 230(8) of General Financial Rules (GFR) 2017, "All interest or other earnings against Grant in Aid or advance (other than reimbursement) released to any Grantee Institution should mandatory be remitted to Consolidated Fund of India immediately after finalization of accounts. Such advances should not be allowed to be adjusted against future releases".

It was pointed out in the previous year's Separate Audit Report for the year 2022-23 (comment No. A.1) and 2021-22 that interest earned on grant funds during 2021-22 was incorrectly depicted as income instead of remitting to Consolidated Fund of India or treating as liability under Current Liabilities & Provisions. The Institute is required to remit all interest or other earnings against Grant in aid or advance to Consolidated Fund of India and correct its treatment in the books of accounts.

C.3 Fixed Assets (Schedule 8): ₹686.98 crore

A reference is invited to Accounting Policy no. 3.1 given in the Significant Accounting Policies (Schedule -24) which *inter alia* states that 'Fixed Assets are stated at historical cost of acquisition inclusive of inward freight, duties and taxes and incidental expenses relating to acquisition'. The Institute has been established from the funds provided by the Central Government to HITES, which acted as Executing Agency (EA) for construction work and Procurement Support Agency (PSA) for acquisition of medical equipment for the AIIMS Bathinda.

The Institute has capitalized the assets based on costs incurred by HITES. However, the commission/remuneration allowed by the Government of India to HITES to work as EA (₹31.05 crore) and PSA (₹2.22 crore) has not been accounted for and



capitalized by AIIMS Bathinda. The Institute should capitalize this amount of ₹33.27 crore (31.05+2.22) under appropriate fixed assets heads and applicable depreciation to be charged thereon.

C.4 Notes on Accounts (Schedule 25)

The note at Sl. No. 12(d) of Contingent Liabilities and Notes on Accounts (Schedule 25) states that the Government of Punjab has allotted 175 acres and the same has been shown in Fixed Assets (Schedule-8) at nominal value of ₹1.00.

The above information is incorrect to the extent that the State Government transferred 179.27 acres (175.06 acres on 23.11.2016 and 4.21 acres on 23.10.2018) free of cost to the AIIMS Bathinda.

C.5 Claims of ₹71.92 lakh in respect of 374 beneficiaries under Ayushman Scheme have been rejected by the state health agencies. The fact has not been disclosed in the notes on accounts.

C.6 The Institute has neither shown assets acquired from sponsored projects nor the status regarding ownership of assets has been disclosed in the Notes to Accounts in contravention to the guidelines prescribed in the Uniform Format of Accounts.

D. Grant –in- Aid

The Grant-in-aid position of the Institute as on 31.03.2024 was as under:

(Figures in ₹Crore)

Particulars	OH- 31 General	OH- 35 Capital	OH-36 Salary	Repayment of HEFA Loan (Principal)	Repayment of Interest on HEFA Loan	SAP	ECRP- General	ECRP Salary	Total
Opening balance as on 01.04.2023	0	4.89	3.29	0	0.08	1.37	0.72	0.44	10.79
Received during the year	59.00	30.70	130.00	0	0	2.00	0	0	221.70
Total available fund	59.00	35.59	133.29	0	0.08	3.37	0.72	0.44	232.49
Expenditure	59.00	30.70	130.00	0	0	2.00	0	0	221.70
Refunded/lapsed	0	3.67	3.29	0	0.08	1.37	0.72	0.44	9.57
Unspent as on 31.03.2024	0	1.22	0	0	0	0	0	0	1.22

**E. Management letter**

Deficiencies which have not been included in the Audit report have been brought to the notice of the Institute's management through a management letter issued separately for remedial/corrective action.

v) Subject to our observations in the preceding paragraphs, we report that the Balance Sheet, Income and Expenditure Account and Receipts and Payments Account dealt with by this report are in agreement with the books of accounts.

vi) In our opinion and 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 other significant matters stated above, and other matters mentioned 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, Bathinda (Punjab) as at 31 March 2024; and
- b. In so far as it relates to the Income & Expenditure Account, of the surplus for the year ended on that date.

For and on behalf of the C & AG of India

Principal Director of Audit (Central), Chandigarh

Place: Chandigarh

Date: 25.10.2024



Annexure to Separate Audit Report

1. Adequacy of Internal Audit System

Internal audit system is not in existence in the Institute. However, Internal Audit of the Institute was conducted by Ministry of Health & Family Welfare up to 31.03.2023. No internal audit for the period 2023-24 was carried out.

2. Adequacy of Internal Control System

As per the AIIMS Regulations 2019, the Institute Body may meet as often as may be considered necessary by the President for the transaction of the business of the Institute but shall meet at least twice a year. It further stated that the Governing Body may meet as often as may be considered necessary by the Chairman for transaction of its business but shall ordinarily meet at least thrice a year preferably in the month of January, May and September. However, only one meeting each of the Institute Body and Governing Body was held during the year 2023-24.

3. System of Physical verification of Fixed Assets

For conducting physical verification of Fixed Assets a committee has been formed. However, the physical verification for the period 2023-24 is still in progress.

4. System of Physical verification of Inventory

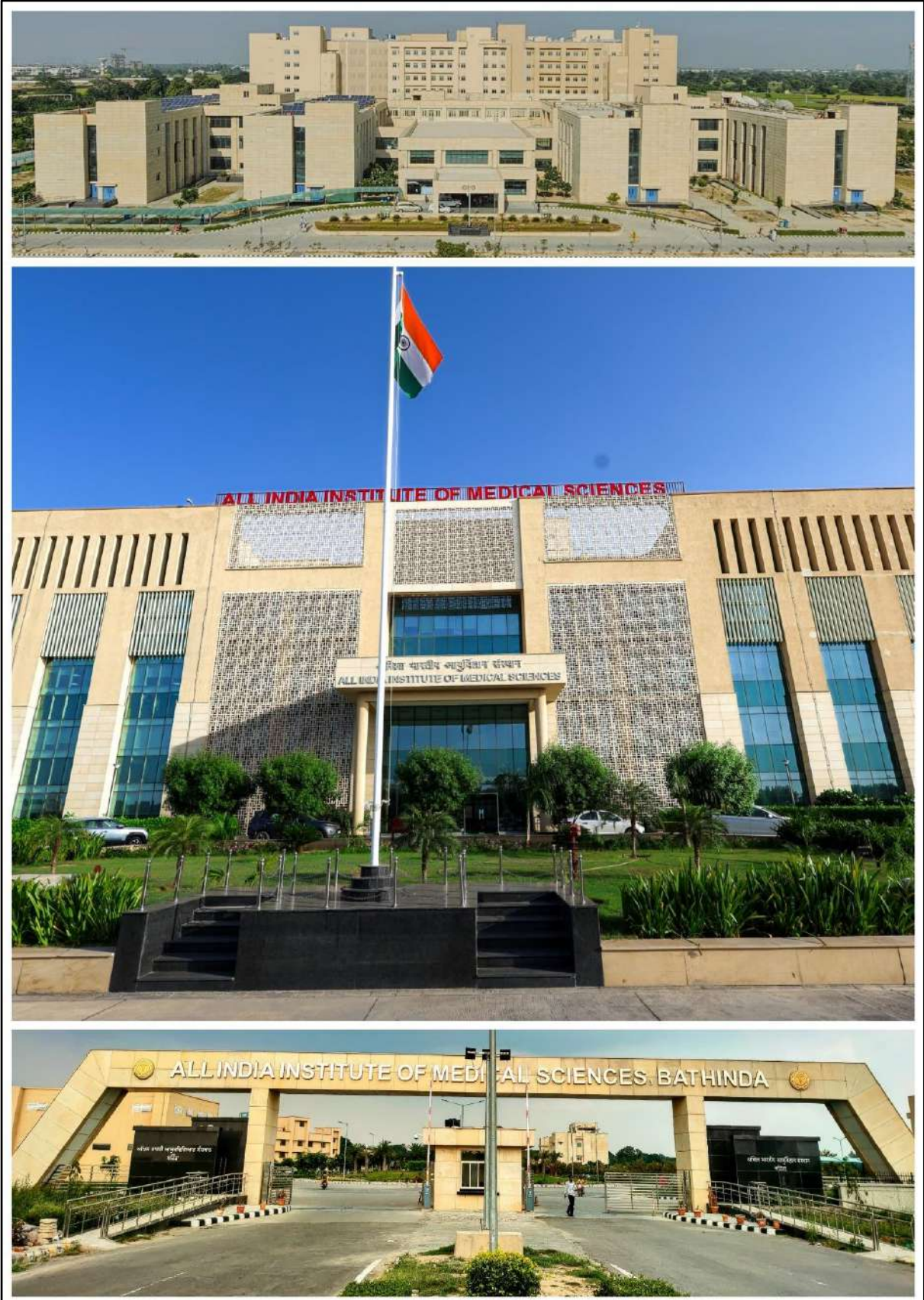
For conducting physical verification of inventory, a committee has been formed. However, the physical verification for the period 2023-24 is still in progress.

5. Regularity in Payment of Statutory dues

No irregularity was found in payment of statutory dues.

A handwritten signature in black ink, appearing to be 'G. K. Singh', written over a horizontal line.

Deputy Director



AIIMS BATHINDA