

अनुसंधान

Exploring the Unknown



Research Cell

All India Institute of Medical Sciences

BIBINAGAR, HYDERABAD

Third Edition



AIIMS Bibinagar
Executive Director, Faculty, Staff and Students
Welcome our Honorable Ministers and Inspiration



Shri Jagat Prakash Nadda

Hon'ble Minister of Health & Family Welfare
and Chemicals & Fertilizers



Smt. Anupriya Patel

Hon'ble Minister of State for Health &
Family Welfare and Chemicals and
Fertilizers, Government of India



Shri Prataprao Jadhav

Hon'ble Minister of State
(Independent Charge) of Ministry of
AYUSH and Minister of State of Ministry of
Health & Family Welfare, Government of India

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G. Kishan Reddy

Honorable Minister of
Coal and Mines
Government Of India
New Delhi

MESSAGE

I congratulate AIIMS Bibinagar for the third edition of Institute Research Magazine, Anusandhan-unravelling the unknown. This is a remarkable step towards a culture of innovation and scientific inquiry. Research is the cornerstone of progress, and through Anusandhan, AIIMS Bibinagar sets a valuable trend to enrich quality healthcare through continuous research and knowledge exchange.

It is commendable that in just 20 months after Hon'ble Prime Minister laid foundation stone of AIIMS Bibinagar as an institute of National importance, it is striving to achieve excellence and ensure global standards of medical care.

The rising number of patients availing healthcare services in the institute is testament to the trust of people in the quality of services provided. As the saying goes, "A journey of a thousand miles begins with a single step." From just 15 faculty members at the outset to over 100 doctors today, from a handful of medical specialties to advanced surgical and super-specialty consultations, and from 7 nursing officers to a team of more than 500, the institute's progress in such a short span is truly commendable.

Research, innovation and scientific collaborations are the cornerstones of any institute of repute, and it is heartening to see AIIMS Bibinagar prioritizing Anusandhan. It is also highly appreciated that the Institute is encouraging young budding doctors to foray into research. These young doctors will be the shining force of Viksit Atmanirbhar and Samruddha Bharat. Equipping them with a mindset of enquiry and research will embolden our steps towards ensuring cutting edge medical care in India.

In the last 10 years, India's public health infrastructure has been guided by the mission of proving accessible, affordable, and top-quality healthcare and witnessing a revolutionary change across all sector. AIIMS hospitals across India have this sacrosanct duty to ensure that we continue to achieve milestones in this mission and ensure that highest standards of healthcare are available to each and every India. Best wishes to the Director and his team for this great endeavor ahead. May your endeavors continue to shine brightly in service to humanity, and may the spirit of 'Jai Vigyan Jai Anusandhan' continues to inspire innovation and excellence for years to come.

G. Kishan Reddy



Dr. George A. D'Souza

MD, DNB

President,
All India Institute of Medical Sciences
Bibinagar Hyderabad

MESSAGE

It gives me immense pleasure to pen down this brief message for the third edition of our research magazine, 'Anusandhan'. AIIMS Bibinagar from its very beginning has been committed to fostering an environment that encourages scientific curiosity and strives to create a fertile ground for research where scientific ideas can flourish.

Congratulations to the Director and research team for more than 750 research publications in such a short span and for completion of various intramural and extramural research projects. It is heartening to know that the 'Multi Research Unit' established under ICMR-DHR and under MRU, conducts research in difficult to reach tribal terrains of our country. The research projects like the one on fluorosis are designed considering the regional health issues and needs. The implementation research project involving use of drones for reaching unapproachable areas is highly commendable. Involvement of MBBS students in research promises to increase our footprint in furthering biomedical discovery.

Together let us continue to push the boundaries of knowledge and help create meaningful change paving the way for a healthier and brighter future for humanity.

My best wishes to the editorial board of Anusandhan for their great effort in bringing out this year's journal on the research effort of the Institute.

Dr. George A. D'Souza



Prof. (Dr.) Vikas Bhatia

**Executive Director & CEO
All India Institute of Medical Sciences,
Bibinagar (Telangana)**

- ◆ Founder Dean, AIIMS, Bhubaneswar (2012-19)
- ◆ Founder : Indian Journal of Community and Family Medicine
- ◆ Officer Incharge, Health Section, UNICEF (2004-2007)
- ◆ Bharat Jyoti Award (2017) and Best Citizens of India Award (2017) recipient
- ◆ Dr. NS Rao Award from NAMS

MESSAGE

AIIMS, Institute of National importance are known for the academic excellence, research and dedicated approach towards dissemination of knowledge in the medical field. AIIMS Bibinagar appreciates the role of research in medical education and health care and is committed to developing an inclination towards research in both faculty and students. In this pursuit, the institute had taken the initiative to launch Annual Institute Research Magazine, "Anusandhan-Unravelling the unknown." This year we are welcoming the Third Edition of this research magazine. This is productive as well as a great platform for the students, residents, researchers and faculty members to disseminate achievements in the research.

Honorable Prime Minister Shri Narendra Modi laid the foundation stone of the institute on 8th April, 2023, construction work is going at rapid pace for 20 building blocks. Currently, 35 departments are functional with various Specialties, Super-specialties.

It is important to recognize and address opportunities and challenges of the research and strengthen our national health research workforce. Multi Speciality Research Unit (MRU) is established in the institute with multiple Extramural projects. Tribal health project is analyzing the gap of health care services reaching to tribal and unreachable areas in the nation also highlighting their health challenges. Advanced Resource Center for Tribal Health, AIIMS Bibinagar is established. The drone project reaching unapproachable areas for testing Tuberculosis had got national recognition. Our institute is working in outlining the application of AI in healthcare and building effective AI systems with the possible future direction of AI augmented healthcare systems. Dean (Research), faculty members and team are tirelessly putting efforts in encouraging research aptitude in the institute. AIIMS Bibinagar's research portfolio encompasses 804 quality research publications till now. The appreciation of the

research work in the institute is incomplete without acknowledging the contribution of Institutional Ethics Committee. IEC AIIMS Bibinagar deserve big applaud for their valuable, meticulous, responsible and impeccable work with total 18 IEC meetings done till now.

It is said that “New ideas of innovation grow out of the mind of each new generation”. Being an institute of higher learning that can help students to put these ideas into action is necessary. Hence students are also encouraged to actively engage in research activities and special budget is granted by the institute for student’s research too. The number of STS projects of students under ICMR is increasing with each passing year. We take pride in having separate student’s publications forum showcasing young smart brains research work and publications.

I would like to repeat success mantra of Swami Vivekananda here for our students and faculty,
“Take up one idea. Make that one idea your life; dream of it; think of it; live on that idea. Let the brain, the body, muscles, nerves, every part of your body be full of that idea, and just leave every other idea alone. This is the way to success”

While research is the foundation for forming knowledge, collaboration is a strategy to deal with situations that seem challenging to solve individually. Institute is working with so many renowned institutes in the country on various projects.

I would like to end by saying, We must do everything in our capacity to protect and promote the continuity of our scientific research and apply our collective knowledge to facilitate the innovation enforcing health care contributing to the viksit and Atmanirbhar Bharat.

Jai Vigyan, Jai Anusandhan!

Prof. (Dr.) Vikas Bhatia



Prof. (Dr) Rahul Narang

Dean (Academics)

All India Institute of Medical Sciences,
Bibinagar Hyderabad

MESSAGE

We stand at the threshold of reckoning and rebirth, where the crises we face—climate collapse, health inequities, ecological unraveling—are not separate storms, but waves of the same rising tide. The heat that wilts crops also incubates new diseases; the plastics in our oceans now flow in our veins; the systems that promised prosperity instead bred dislocation. Yet in this web of interdependence lies our salvation—for what is bound together in destruction can be rewoven in renewal.

Health is no isolated phenomenon, but a living ledger of environmental memory. A child's asthma speaks of polluted skies; a community's diabetes traces to food deserts carved by economic winds. The explosion of chronic illness in the young is not misfortune, but the arithmetic of choices made generations ago—each policy, each industrial gamble compounding in human biology. Yet this same calculus works in reverse: regenerative agriculture becomes preventive medicine, clean energy transforms into health equity, and today's environmental justice rewrites tomorrow's genetic destiny.

The wisdom we need thrives at the intersections: Indigenous elders who read forest health as clinical vital signs, farmers practicing pharmacy through biodiversity, cities designing streets as both climate shields and social determinants of health. Data must pulse through this organism of change—not as cold numbers, but as living knowledge: satellite feeds guiding village health workers, AI mapping disease patterns through supply chains, communities auditing toxins with the precision of corporate accountants.

This is not the twilight of civilization, but the crucible of our next evolution. The same ingenuity that built empires of extraction can now forge circular economies of care. Doctors must prescribe policy, engineers must mimic ecosystems, and economists must measure wealth in clean breaths and intact food webs. The choice before us is not sacrifice, but transformation—not less life, but more living.

The hour is late, but the dawn is ours to shape. Will we be the last generation to wrestle the earth, or the first to listen to its wisdom? The answer writes itself in every action, every silence, every moment between this breath and the next.

Prof. (Dr) Rahul Narang



Padma Shri Prof. (Dr.) Yogesh Chawla

M.B.B.S., M.D, D.M. (Gastroenterology)
AIIMS, New Delhi

- ◆ Padma Shri B C Roy Award recipient
- ◆ Former Director & Emeritus Professor, PGIMER
- ◆ Former Prof. & Head, Department of Hepatology, PGIMER, Chandigarh (India)
- ◆ Chairman, Scientific Advisory Committee, AIIMS Bibinagar, Hyderabad
- ◆ Chairman Academics and Professor Emeritus, Kalinga Institute of Medical Sciences (KIMS), Bhubaneswar
- ◆ Member, Institute Body AIIMS, Bhubaneswar
- ◆ Chairman, Academic Committee, JIPMER, Pondicherry
- ◆ Member, Academic Committee, ILBS, New Delhi
- ◆ Member, Academic Committee, IMS BHU, Varanasi
- ◆ Member, Governing Council, SRMC, Chennai
- ◆ Member, Board of Management, JSS Academy of Higher Education and Research, Mysuru

MESSAGE

The latest edition of 'Anusandhan', the annual research magazine of AIIMS Bibinagar, celebrates the remarkable achievements of its faculty and students, reflecting the institute's dedication to advancing healthcare research, education, and service. Since its inception, AIIMS Bibinagar has established itself as a center of excellence, committed to aligning rigorous research with high standards in healthcare.

Over the past year, the institute has expanded its impact by fostering collaborations that extend beyond its campus, broadening the scope and community impact of its research. AIIMS Bibinagar's research portfolio encompasses numerous extramural and intramural projects across diverse fields, such as One Health, tribal health, and infectious diseases, reflecting its commitment to addressing pressing healthcare challenges through a multidisciplinary approach and innovation.

The establishment of specialized facilities, including the Multidisciplinary Research Unit further strengthens AIIMS Bibinagar's position as a regional hub for biomedical research. Numerous publications attest to the impact of its research efforts, and the pages of 'Anusandhan' are filled with evidence of these accomplishments, marking a promising new generation of researchers and healthcare leaders.

As AIIMS Bibinagar continues to advance the frontiers of medical knowledge, Anusandhan serves as a testament to its research endeavors and aims to inspire further exploration of impactful research avenues.

Prof. (Dr.) Yogesh Chawla



Prof G Suryanarayana Raju

MS., MCh., FRCS., FUICC

- ◆ Member of Medical Assessment and rating Board, National Medical Commission,
- ◆ Chairman, IEC, AIIMS Bibinagar.
- ◆ Former Director, Asvins Specialty Hospitals, Hyderabad
- ◆ Dean of Research and Projects, Nizams Institute of Medical Sciences, Hyderabad
- ◆ Senior Professor and Head of Department, Surgical Oncology, NIMS, Hyderabad

MESSAGE

Message from Chairman Institutional Ethics Committee

All India Institute of Medical Sciences, Bibinagar has always been in the forefront in the pursuit of knowledge and advancements in healthcare. The management has taken research as a priority and initiated at the time of inception of the courses and achieved progress of the institute on academic, health care in frontline and the research is more with impetus with each passing year.

The young faculty and residents in every department including preclinical are enthusiastic with innovative ideas. We hope the enthusiasm will continue with innovative and original ideas to create transformative discoveries and further to contribute to the global pool of scientific knowledge. IEC of AIIMS Bibinagar follow the ICMR National Ethical Guidelines for Biomedical Research in coordination with IRC strive to create a productive ground for research. Members of IEC are open to participate in discussions and freely express their opinions, to ensure ethical compliance in research endeavors to meet. It needs special mentions of the contribution of young members from the institution especially the Member Secretary to guide the investigators and also to encourage them to submit the projects. To date, the IEC has conducted a total of 17 meetings. The committee has reviewed approximately 600 research proposals. The institution also conducted basic training courses for ethics committee members and the investigators to enhance their understanding of ethical considerations.

I congratulate all the investigators who contributed directly as well as indirectly in conduction of research activities individually as well as inter-departmental projects in the institute. Today collaborative research is the key as it brings different ideas, capabilities together to help in performing better research. It is promising to see, such collaborative research projects being conducted in the institute with renowned institutions of the country.

The encouragement from the Executive Director, Dean and the Dean of Research have been significant in research activities of the Institution. I appreciate Editorial Board of Anusandhan for beautiful depiction of the glimpse of our research journey in the Second Edition and looking forward for this upcoming third edition.

My best wishes to family of AIIMS Bibinagar-management, faculty, residents, students and nursing staff for all their future endeavors in academics, patient care and research.

Prof G Suryanarayana Raju



Prof. (Dr.) Sangeetha Sampath

Dean (Research)
Professor and Head,
Department of Biochemistry

MESSAGE

It is with immense pride and purpose that I pen down this message finishing three years after establishing the Research section of AIIMS Bibinagar. With 24 Intramural funded projects for faculty, 9 intramural funded projects for undergraduate students and 42 extramural projects ongoing, 809 publications and 18 student publications in a short span of three years, we have come a long way but still there is a lot more to achieve. We have been given the mandate of establishing three centres with specialised labs under the umbrella of Research cell- The Central Research Laboratory under Multi Disciplinary Research Unit (MRU) funded by DHR, Collaborative Centre for assistive health technology (CCAHT) funded through AIIMS New Delhi from NCD division of ICMR and Collaborative centre for Mind Body interventions through Yoga (CCMBIY) funded by Ministry of Ayush. These centres will give opportunity for research in priority areas and cater to the need of our society. Patient care, Medical education and research stand as the three pillars of progress in our collective journey toward better healthcare for all. At our institution, we strive to foster a culture of innovation, discovery, and collaboration, shaping the future of medical science.

This publication serves as a mirror to the aspirations, achievements, and relentless efforts of our faculty and students. It is a platform to celebrate our advancements, share insights, and connect with the wider medical community. Research is not merely an academic pursuit—it is a beacon of hope, offering solutions to pressing challenges and opening doors to untapped possibilities.

I encourage each one of you to remain curious, embrace critical thinking, and contribute to the ever-expanding horizon of medical knowledge. Let this magazine inspire not only reflection but action, as we enjoy the journey of researching together to improve lives and transform healthcare outcomes.

Thank you for being a part of this journey. May the spirit of inquiry and learning continue to guide us all.

Prof. (Dr.) Sangeetha Sampath

Scientific Advisory Committee (SAC)

The Scientific Advisory Committee (SAC) is a pivotal body within our institution, tasked with guiding and supporting scientific research initiatives under the chairperson Dr. Yogesh Kumar Chawla. The committee's responsibilities include reviewing research proposals, advising on scientific strategies, and overseeing the allocation of research funds. This write-up provides a detailed summary of the SAC's activities over the past fiscal year, including the frequency of meetings, the number of projects discussed and approved, and the total funds allotted.

Meeting Frequency

In the past year, the Third Scientific Advisory Committee was convened. The meeting was scheduled yearly to ensure regular and effective oversight of Intramural Funded Projects, facilitate timely discussions, and make informed decisions on research proposals.

Projects Discussed and Approved

During the 3rd SAC a total of fifteen intramural funded proposals were reviewed. Total fifteen projects received approval for funding. The committee's approval rate highlights its commitment to advancing high-quality scientific research and supporting projects that align with institutional priorities and scientific excellence.

Total Funds Allotted

The total funds allocated for the approved projects amounted to Rs.62.7 lakhs. This substantial funding underscores the institution's dedication to fostering innovative research and supporting scientific endeavors across funding projects. The funds will be distributed according to the project needs and milestones, ensuring that each approved project receives adequate financial support for successful execution.

Conclusion

The Scientific Advisory Committee has effectively fulfilled its role over the past year through its meetings, thorough review process, and strategic allocation of research funds. By discussing and approving a significant number of projects and allotting substantial financial resources, the SAC has played a crucial role in advancing scientific research within the institution. The committee remains committed to its mission of promoting high-impact research and contributing to the scientific and academic growth of the institution.



**SAC Members (Dr. Madhuri T, Dr. Mrudula,
Dr. Sangeetha, Dr. Yogesh Chawla,
Dr. Rahul Narang, Dr. Mounika - from left to right)**



Third SAC Meeting held on March 16th, 2024

Institutional Research Committee (IRC)

The Institutional Research Committee (IRC) plays a critical role in overseeing and facilitating research activities within our institution. Its primary responsibilities include evaluating research proposals, ensuring alignment with institutional goals, and fostering a robust research environment. Below is a summary of the IRC's activities over the past year, including the frequency of meetings, the number of projects discussed and approved, and recent expansions to the committee.

Meeting Frequency

Over the past year, the Institutional Research Committee has convened twenty times. Meetings were held on a monthly basis to ensure consistent and timely review of research proposals and to address any emerging issues related to institutional research priorities.

Projects Discussed and Approved

During these meetings, the committee discussed a total of One hundred and eighty three research projects including of intramural, extramural and STS funded & non funded projects. This represents a significant portion of the proposals reviewed, indicating a high level of support for research initiatives within the institution. The approved projects span various disciplines, reflecting the diverse research interests.

Expansion of the Committee

In response to the growing research activities and to better support the increasing volume of proposals, the Institutional Research Committee has undergone an expansion (two times). The committee's membership has increased from eight to fourteen members. This expansion includes the addition of representatives from several departments, including CM & FM (Dr. Arun Mitra P, Assistant Professor), Psychiatry (Dr. Sai Krishna Tikka, Associate Professor), Dermatology (Dr. Deepthi Konda, Assistant Professor). General Medicine (Dr. Vishaka Jain, Additional Professor & Head), Pediatric Surgery (Dr. Sashanker Shekar Panda, Additional Professor), Pathology (Dr. Ashuthosh Rath, Assistant Professor). The broadened membership is intended to enhance the committee's ability to provide comprehensive reviews and to ensure a wide range of expertise is available for evaluating interdisciplinary research proposals.

Conclusion

The Institutional Research Committee has demonstrated a strong commitment to supporting and advancing research within the institution through its regular meetings and thorough evaluation processes. The expansion of the committee is a strategic move to better manage the growing number of research proposals and to foster a more inclusive and interdisciplinary approach to research oversight. The IRC remains dedicated to its mission of promoting high-quality research and contributing to the institution's academic and research excellence.





Dr. Sangeetha Sampath

Dean Research
Professor and Head,
Department of Biochemistry



Dr. Govindrao N. Kusneniwar

Associate Dean Research
Additional Professor,
Department of CM & FM



Dr. V Mounika Reddy

Membership Secretary,
Associate Professor,
Department of Paediatrics



Dr. Arun Mitra P

Additional Member Secretary,
Assistant Professor,
Department of CM & FM



Dr. Abhishek J Arora

Member,
Professor and Head,
Department of Radiology



Dr. Vishakha Jain

Member,
Additional Professor and Head
Department of General Medicine



Dr. Shashank Shekar Panda

Member,
Professor and Head,
Department of Paediatric Surgery



Dr. Mrudula C

Member,
Professor and Head,
Department of Anatomy



Dr. Sai Krishna Tikka

Member,
Additional Professor
Department of Psychiatry



Dr. Debasis Bisoi

Member,
Associate Professor,
Department of Pharmacology



Dr. Ashutosh Rath

Member,
Associate Professor,
Department of Pathology



Dr. Meely Panda

Member,
Associate Professor,
Department of CM & FM

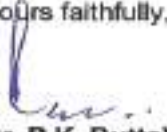


Dr. Deepthi Konda

Member,
Associate Professor,
Department of Dermatology

Recognition of AIIMS Bibinagar as a Scientific and Industrial Research Organization (SIRO)

A SIRO (Scientific and Industrial Research Organisation) certificate is a recognition granted by the DSIR (Department of Scientific and Industrial Research) to research and development (R&D) organizations that demonstrate excellence in scientific and industrial research. Previously AIIMS Bibinagar has been recognized as a Scientific and Industrial Research Organization (SIRO) on 3rd December 2021 from 28.01.2021 to 31.03.2024 by the Department of Scientific and Industrial Research. Now that recognition has been renewed on 15th April, 2024 from 01.04.2024 to 31.03.2027 which is a milestone for the institute

 सूचना का अधिकार RIGHT TO INFORMATION	दूरभाष/TEL : 26962819, 26567373 (EPABX) : 26565694, 26562133 : 26565687, 26562144 : 26562134, 26562122 फैक्स/FAX : 26960629, 26529745 Website : http://www.dsir.gov.in	 सत्यमेव जयते	भारत सरकार विज्ञान और प्रौद्योगिकी मंत्रालय वैज्ञानिक और औद्योगिक अनुसंधान विभाग टेक्नोलॉजी भवन, नया महरौली गार्ड, नई दिल्ली - 110016 GOVERNMENT OF INDIA MINISTRY OF SCIENCE AND TECHNOLOGY Department of Scientific and Industrial Research Technology Bhavan, New Mehrauli Road, New Delhi - 110016
			
F.No. 14/823/2021-TU-V		Date: 15 th April 2024	
The Director & CEO All India Institute of Medical Sciences, Bibinagar, Hyderabad Metropolitan Region, Telangana – 508126			
Subject: Renewal of Recognition of Scientific and Industrial Research Organisations (SIROs).			
Dear Sir,			
This has reference to your application for renewal of recognition of All India Institute of Medical Sciences, Bibinagar, Hyderabad, Telangana as a Scientific and Industrial Research Organisation (SIRO) by the Department of Scientific and Industrial Research under the Scheme on Recognition of Scientific and Industrial Research Organisations (SIROs), 1988. 2. This is to inform you that it has been decided to accord renewal of recognition to All India Institute of Medical Sciences, Bibinagar, Hyderabad, Telangana from 01.04.2024 to 31.03.2027. The recognition is subject to terms and conditions mentioned overleaf. 3. Receipt of this letter may kindly be acknowledged.			
Yours faithfully,  (Dr. P.K. Dutta) Scientist - 'G'			

WORKSHOPS CONDUCTED

Research Methodology Workshop:

1. From the 23rd to the 25th of January 2024, the Institute Research Committee (IRC) at AIIMS, Bibinagar organized a comprehensive three-day Basic Research Methodology workshop, aimed to equip the new postgraduate residents of the institute with essential research knowledge and skills. The workshop, expertly coordinated by Dr Vaman Kulkarni, Associate Professor in the Department of Community Medicine and Family Medicine (CMFM) featured an esteemed panel of resource persons from various departments including Dr. Aparna Varma, Dr. Rashmi Kundapur, Dr. Meely Panda, Dr. Mrudula C, Dr. Dr. Madhavi Eerike and Dr. Rohit Saluja. The first day of the workshop focused on the various study designs, research questions, literature review and practical aspects of sample size calculations, supplemented by hands-on activities. On the second day, the workshop continued with lectures on basic statistics, ethical considerations in research, study protocol development and data collection tools. On the final day, pre-assigned groups of participants prepared and presented their draft research protocols and the resource members provided their valuable feedback. This interactive session facilitated a fruitful exchange of information and ideas, benefitting both the faculty and students alike.
2. From the 11th to 13th of September 2024, the Institute Research Committee (IRC) at AIIMS, Bibinagar organized a comprehensive three-day Basic Research Methodology Workshop, aimed to equip the new postgraduate students from various departments of the institute with essential research, knowledge and skills. The workshop expertly coordinated by Dr Vaman Kulkarni, Associate Professor in the Department of Community Medicine and Family Medicine (CMFM), featured an esteemed panel of resources from various departments including, Dr. Aparna Varma, Dr. Rashmi Kundapur, Dr. Moumika Reddy, Dr. Arun Mitra P, Dr. Madhavi Eerike, Dr. Meely Panda, and Dr. Rohit Saluja. The first day of the workshop commenced with a series of engaging lectures focused on research question, literature review, various study designs and practical aspects of sample size calculations, complimented by interactive hands-on activities. On the second day, the workshop continued with a few

lectures delving into basic statistics, ethical considerations in research, study protocol development, and data collection tools. Once again, the participants had an opportunity to engage in practical exercises, reinforcing their understanding of the concepts discussed. On the third day, pre-assigned groups of participants prepared and presented their draft research protocols, and the resource faculty members provided their valuable feedback on critical aspects of the protocol. This interactive session fostered an enthusiastic exchange of information and ideas, benefiting both the faculty and residents alike.

3. The Institute Research Cell (IRC) of AIIMS, Bibinagar under the aegis of Director, Prof (Dr) Vikas Bhatia and guidance of Dean (Academic), Prof (Dr.) Rahul Narang and Dean (Research), Prof (Dr.) Sangeetha Sampath organised a three day Basic Research Methodology Workshop (BMRW) for the newly joined Junior Residents (Academic) from 11th to 13th March 2025. The Participants included JRs from the departments of OBGY, General Medicine, Pathology, Orthopedics, Microbiology, Biochemistry, FMT, ENT, and Community Medicine and Family Medicine, Ophthalmology, General Surgery, Pediatric Surgery and MSc Nursing Students. The workshop was coordinated by Dr. Vaman Kulkarni, Associate Professor, and Dept. of CM&FM. The resource persons included: Dr. Neeraj Agarwal, Dr. Aparna Varma, Dr. Mounika Reddy, Dr. Arun Mitra P, Dr. Ramakrishna CH, Dr. Meely Panda, Dr. Rohit Saluja, Dr. Sunil Kumar Chavan, Dr. Gomathi R and Dr. Syed Iftikar. Following were the activities conducted:

Day 1 (11.03.2025): Various lectures on research topic and research question, review of literature, Different types of study designs and practical aspects of sample size calculation, interspersed with Hands on activities.

Day 2 (12.03.2025): Various lectures on basic statistics, ethical aspects in research, study protocol and Data collection tools, SOPs for conduct of research activities interspersed with hands on activities.

Day 3 (13.03.2025): The pre-decided groups of JRs prepared and presented draft research protocols. Which were attended by all the resource faculty members, who provided their valuable feedback on important aspects of the protocol. The exchange of information and ideas was enjoyed by both the faculty and residents.



STATA Workshop:

Statistical analysis in health research is crucial for identifying patterns, evaluating interventions, appropriate interpretation, and generating evidence to guide clinical and public health decisions. STATA software, as a robust data analysis tool for managing and analyzing complex datasets, plays a critical role in addressing this need. A four-day workshop on 'Data analysis using STATA' was conducted by the Department of Community Medicine and Family Medicine (CMFM), AIIMS Bibinagar, Hyderabad, in collaboration with the International Union Against Tuberculosis and Lung Disease (The Union) from 15th to 18th October 2024. During the inaugural session on 15-10-2024, the chief guest, Prof. Dr. Vikas Bhatia, Executive Director of AIIMS, Bibinagar, said that medical professionals should work towards high-quality and impactful research. Twenty-seven delegates from various institutions such as AIIMS-Bibinagar, AIIMS-Delhi, AIIMS-Nagpur, National Institute of Nutrition-ICMR, Hyderabad, Government Medical college, Pune and Government Medical college, Jangaon participated in the workshop. Dr. Gomathi Ramaswamy, Associate Professor from the Dept. of CMFM coordinated the workshop under the guidance of Dr. Neeraj Agarwal, Professor and Head, Department of CMFM. Dr. Palanivel C Professor, PSM, JIPMER, Puducherry, Dr. Kalaiselvi S, Associate Professor, CFM, AIIMS, Madurai, Dr. Pruthi Thekkur, Senior Research Fellow, Central for Operational Research, The Union and Dr. Divya Nair, Senior Research Fellow, Central for Operational Research, The Union were external resource persons of the workshop. The initial two days of the workshop were dedicated to foundational concepts in statistics, including managing variable types and deriving as well as interpreting descriptive and inferential statistics using STATA software. Participants trained on correlation, regression, and diagnostic tests during the final two days. A hands-on training during the entire workshop fetched participant feedback of 4.9 out of 5 for the course.



Hands-on Workshop on Systematic Reviews and Meta-analysis Under DHR-SARANSH Grant for Telangana and Andhra Pradesh Organized by AIIMS Bibinagar, Telangana

Overview: The All India Institute of Medical Sciences (AIIMS) Bibinagar, Telangana, successfully conducted a four-day hands-on workshop (February 19-22, 2025) on systematic reviews and meta-analysis under the DHR-SARANSH grant. The workshop aimed to enhance the research capacity of healthcare professionals by equipping them with the necessary skills to conduct systematic reviews and meta-analyses.

Organizing Team: The workshop was organized by a team of experts from various medical disciplines, including Dr. Sai Krishna Tikka, Dr. Rashmi Kundapur, Dr. Madhavi Eerike, Dr. Deepthi R, Dr. Suthanthira Kannan, and Dr. Jaison Joseph. Their collective expertise in psychiatry, community medicine, pharmacology, and nursing played a crucial role in ensuring the successful execution of the workshop.

Participants: The workshop was designed for capacity-building, specifically targeting the regions of Telangana and Andhra Pradesh. A total of 56 candidates submitted proposals for systematic reviews and meta-analyses. Out of these, 30 participants were selected by the resource experts based on pre-determined criteria using a blinded review and scoring process. The final 30 participants came from diverse medical backgrounds, including physicians, dentists, nurses, and other healthcare professionals.

Official Inauguration (February 19, 2025): The organizing chairperson, Dr. Sai Krishna Tikka, highlighted the objectives and expectations of the workshop. Dr. Vikas Dhikav, Scientist-E (Medical, DHR, Observer), provided an orientation on the Centre for Evidence for Guidelines under DHR, explaining its inception and vision. Prof. (Dr.) Sangeetha Sampath, Dean of Research at AIIMS Bibinagar, emphasized the significance of training for conducting quality research in healthcare settings. Prof. (Dr.) Nitin Ashok John, Dean of Examinations at AIIMS Bibinagar, welcomed the resource experts and congratulated the AIIMS Bibinagar team for securing the SARANSH grant.

Scientific Sessions Overview: The workshop aimed to equip participants with essential skills for conducting systematic reviews and meta-analyses to enhance clinical guidelines and healthcare research. The training was structured into two phases:

Online Sessions (January 3 - February 7, 2025): Conducted over six weekly sessions, these virtual meetings introduced participants to the fundamentals of systematic reviews and meta-analysis. Topics covered included review formulation, literature search strategies, and study selection. By the end of the online phase, participants developed protocols ready for PROSPERO registration.

Offline Contact Sessions (February 19 - 22, 2025): A four-day intensive hands-on training was conducted at AIIMS Bibinagar. This phase provided practical exposure to data extraction, quality assessment, meta-analysis, and systematic review writing. By the end of the workshop, participants had developed systematic reviews and meta-analyses ready for submission.

Key Highlights and Outcomes: Expert Guidance: The workshop featured renowned speakers and moderators from premier institutions and organizations, including Dr. Samir Kumar Praharaj (Manipal, Karnataka), Dr. Vikas Menon (JIPMER, Puducherry), Dr. Saibal Das (ICMR, Kolkata), and Dr. Sandeep Grover (PGIMER, Chandigarh). Their expertise ensured high-quality training and mentorship.

Mentorship: The 30 participants were divided into five groups, each mentored by organizing team members and resource experts.

Structured Learning: The online phase introduced theoretical foundations, while the offline sessions enabled participants to apply their knowledge through hands-on exercises.

Practical Exposure: Participants engaged in real-time exercises on systematic review methodology, data extraction, risk of bias assessment, and meta-analysis using software tools such as JAMOVI and REVMAN.

Successful Registration and Ongoing Submission: Five systematic reviews and meta-analyses were successfully developed and are ready for submission to prestigious journals.

Valedictory Function (February 22, 2025): Prof. (Dr.) Vikas Bhatia, Executive Director of AIIMS Bibinagar, was the chief guest for the valedictory function. He commended the organizing team for their meticulous execution and the successful completion of the workshop without any shortcomings. Two participants shared positive feedback, highlighting the workshop's effectiveness in clarifying complex scientific concepts, expert guidance, and overall organization. Prof. (Dr.) Vikas Bhatia, Prof. (Dr.) Sangeetha Sampath, along with other resource faculty members, distributed certificates to all participants and organizing team members.

Summary: The Systematic Reviews and Networking Support in Health (SARANSH) workshop, conducted under the DHR-SARANSH grant for Telangana and Andhra Pradesh, was successfully completed at AIIMS Bibinagar, Telangana. This hands-on workshop provided participants with essential training in systematic reviews and meta-analysis, ensuring the development of high-quality research ready for submission. The event saw enthusiastic participation from experts and scholars in the health care research field, with all scheduled activities executed as planned. The knowledge and experience gained through this workshop will significantly contribute to advancing research methodologies in the healthcare sector. AIIMS Bibinagar, in collaboration with the Department of Health Research, remains committed to fostering high-quality research and academic excellence in healthcare sciences.



**Dr. Vikas Dhikav, Scientist-E (Medical, DHR, Observer),
Resource Experts, Organizing Team Participants**



**Prof. (Dr.) Vikas Bhatia, Executive Director of AIIMS Bibinagar,
Resource Experts, Organizing Team Participants**



Manuscript writing workshop

The department of Psychiatry, organised a 2-day Manuscript writing workshop with a hands-on session. The response received for enrolment was commendable, with a total number of 44 participants. Workshop commenced with a panel discussion among the dignitaries and a brief Introductory session. The agenda for Day 1 included session on how to write title for a paper, abstract writing, Introduction and Methodology writing. There were multiple quiz questions within each session to captivate the interests of the participants. Group activities were conducted within and between the sessions to practice the skills they learnt from each session thus giving them a hands-on experience after the session finished.

On day 2, sessions on how to write results with focus on proper inclusion of tables and pictures, discussion and conclusion section. Brief session on concept of Plagiarism and how to cite references properly was given. Similar to Day 1, within each session there were quiz questions which were followed by prizes to the participants who answered correctly and after every session there was a group activity. After the completion of the session, hands-on session on how to add citations with a help of software was taught and quick Q-A were taken up. Workshop was closed with a warm note of thanks to the dignitaries, members of the organizing team and the active participants. A total of 15 prizes (token of appreciation) were grabbed by the participants by actively participating in the Quiz. Majority of the participants gave feedback that the contents and structure of the workshop enriched their knowledge and skill of writing a manuscript



Workshop on Readdressal of Research using AI:

Dr. Rashmi Kundapur, Additional Professor, Department of Community Medicine and Family Medicine, conducted workshop on Readdressal of Research using AI



Symposium on Basic Concepts of Artificial Intelligence

Student Led Symposium on "Basic Concepts of Artificial Intelligence" was organised on 01/03/2024 at Auditorium, AIIMS, Bibinagar under the guidance of Executive Director, Prof. (Dr.) Vikas Bhatia, Dean (Academics) Prof. (Dr.) Rahul Narang, Dean (Research) Prof. (Dr.) Sangeetha Sampath and Medical Superintendent Prof. (Dr.) Abhishek Arora to assess the knowledge and interest of undergraduates and postgraduates in Artificial Intelligence. In this symposium, five (5) topics related to Basic concepts of Artificial Intelligence were presented by MBBS students of 2021 and 2022 batch under the guidance of AI committee members who were moderators. A debate on the topic "Can AI replace Humans?" was conducted with four (4) participants. The students have shown utmost enthusiasm in the presentation of the topics and in the debate.



Good Practices and Prospects of Sustainable Development in the Primary Health Care Sector Among Vulnerable Tribal Communities - Under MRU

The CME cum Workshop on "Good Practices and Prospects of Sustainable Development in the Primary Health Care Sector Among Vulnerable Tribal Communities" was successfully organized on March 17th and 18th 2025, bringing together experts, academicians, and stakeholders committed to tribal health advancement. The main participants included ASHAs, ANMs, and Anganwadi Teachers from vulnerable tribal areas, highlighting a grassroots approach to improving healthcare delivery. The NGO representatives who were our stakeholders from the Adivasi Society were also felicitated for their contribution. A special talk on Tuberculosis: Reaching the unreached" was discussed in order to keep up with the 100 day campaign and to explore the reasons of its high prevalence among tribes.

Distinguished Guests:

The event was graced by eminent dignitaries:

1. Prof. Dr. Vikas Bhatia – Executive Director & Chairman, ARcTH
2. Prof. Dr. Ashok Bhardwaj – Chairman, National Task Force NTEP
3. Prof. Dr. Rahul Narang – Dean Academics, Chairman, NTEP Core Committee
4. Prof. Dr. Sangeetha Sampath – Dean Research
5. Dr. Swayam Pragyan Parinda & Dr. Pragyan P. Giri – Professors, AIIMS Bhuneshwar
6. Dr. Kapil – Indegenous Development Organisation -NGO
7. Ada Venkatesh – Adivasi Mitra Welfare Society, President
8. Dr. Sumalata C – DYCO, Adilabad
9. Dr. Rajeswari- State Epidemiologist

Organizing Team:

The workshop was coordinated by Dr. Govindrao (Nodal Officer, MRU) and Dr. Meely Panda (Coordinator), with contributions from Dr. Alka B, Dr. Kalpana, Dr. Vasanth, MRU staff, Dr. Anusha, and Vikram.

Key Themes & Sessions:

- Report on the Tribal Health Project under MRU - DHR - ICMR: Provided an overview of ongoing research and interventions targeting tribal health disparities.
- Particularly Vulnerable Tribal Groups (PVTGs): Are we still doing enough? Discussed current challenges, gaps in healthcare, and strategies for improvement.
- Challenges and diseases among tribal communities, with a focus on Tuberculosis and its impact on sustainable development: Explored the burden of TB and its socio-economic impact.
- Governmental efforts in dealing with Tuberculosis challenges among tribal populations: Highlighted policies and initiatives aimed at TB eradication.

- The One Health Approach to bridging gaps in basic primary care for vulnerable tribal groups: Emphasized the importance of a multi-sectoral approach to healthcare.
- Panel Discussion on "Best Practices for the Sustainable Development Among Tribal Communities: Tales of the Tribes" Addressed success stories and innovative models in tribal healthcare.
- Panel Discussion on "A TB-Free India: Reaching the Unreached – The Journey Traversed and the Way Ahead" Focused on strategies to eliminate TB among marginalized groups.
- Overcoming operational bottlenecks in Cy-TB testing and TB preventive options: Discussed new diagnostic tools and preventive care measures.
- Unveiling of the Medique Newsletter and Tribal Health Introductory Module: Launched key informational resources aimed at improving tribal health awareness.

2nd Day- Session:

The second day of the workshop commenced with a quick recap of the previous day's sessions, setting the stage for the day's discussions. The sessions focused on Health Literacy, emphasizing its pivotal role in bridging gaps in healthcare utilization, particularly among tribal communities. A comprehensive presentation provided in-depth insights into this crucial aspect.

A video demonstration showcased the journey of the Advanced Resource Centre for Tribal Health, highlighting its impact and initiatives. Additionally, an informative session covered basic diagnostic and clinical facilities essential for sustainable primary healthcare services in vulnerable communities, underscoring their significance in improving healthcare accessibility. The session concluded with a summary of key takeaways, followed by a feedback session to gather participants' insights and reflections.

Conclusion:

The workshop fostered insightful discussions on strengthening healthcare service delivery in tribal areas. The collaborative efforts of experts, policymakers, and NGOs emphasized the need for sustained interventions to ensure equitable healthcare access for tribal communities. The event successfully paved the way for future research and policy initiatives aimed at addressing the healthcare disparities among vulnerable tribal populations.



**A Lamp lightening ceremony
by our esteemed dignitaries**



**Unveiling the New Letter on
this occasion "Med Communique"**



A Beautiful pictures depicting the tribal culture



**Director sir delivered detailed description on
PVTGs of Telangana and Odhisa state**



**Dr Meely Panda presenting
overview of the workshop.**



Group photograph chief guests with all the participants

Institutional Ethics Committee (IEC)

An Institutional Ethics Committee (IEC) plays a critical role in the ethical oversight of biomedical research and clinical trials within healthcare and academic institutions. Its primary mandate is to protect the rights, dignity, safety, and well-being of research participants. By independently reviewing research proposals, the IEC ensures that studies are conducted with transparency, respect for participant autonomy, and adherence to national and international ethical guidelines.

At AIIMS Bibinagar, the Institutional Ethics Committee, established in November 2020 under the chairmanship of Prof. G. Suryanarayana Raju, carries forward this mission. The committee is registered with both the Central Drugs Standard Control Organization (CDSCO) and the National Ethics Committee Registry for Biomedical and Health Research (NECRBHR)- Department of Health Research (DHR). In alignment with the Indian Council of Medical Research (ICMR) National Ethical Guidelines 2017, the New Drugs and Clinical Trials Rules (NDCTR) 2019, Indian Good clinical Practice Guidelines (Indian-GCP) and ICH-GCP principles, the IEC reviews studies with rigorous ethical standards.

Since its inception, the AIIMS Bibinagar IEC has convened 16 meetings and 4 meetings from June 2023 to March 2024. A total of 600 research proposals were reviewed so far.

Registration Details

- CDSCO - Registration No. ECR/1596/Inst/TG/2021
- DHR Registration No. - EC/NEW/INST/2024/TE/0473
- AIIMS BBN IEC has received final certification from National Ethics Committee Registry for Biomedical and Health Research (NECRBHR)- Department of Health Research (DHR) in June 2024 and registration number No. - EC/NEW/INST/2024/TE/0473

File No. EC/NEW/INST/2024/TE/0473

Government of India
Ministry of Health & Family Welfare
Department of Health Research
National Ethics Committee Registry for Biomedical and Health Research

2nd Floor, IACS Building
Red Cross Road, New Delhi - 110001
Date: 03-Jun-2024

FOR CERTIFICATION
(See rules 17 and 18)

MINISTRY OF HEALTH & FAMILY WELFARE, GOVERNMENT OF INDIA
DEPARTMENT OF HEALTH RESEARCH

Registration No. **EC/NEW/INST/2024/TE/0473**

The designated authority hereby registers and permits **AIIMS BIBINAGAR INSTITUTIONAL ETHICS COMMITTEE**, All India Institute of Medical Sciences, Bibinagar, Bibinagar, City Hyderabad, District Vasudha, Telangana - 501126 Contact No.: 0888278138 Fax No.: To perform duties of ethics committee as specified in the New Drugs and Clinical Trials Rules, 2019.

2. The ethics committee shall observe the conditions of registration specified in Chapter IV of the New Drugs and Clinical Trials Rules, 2019 and the Drugs and Cosmetics Act, 1940.

Place: New Delhi

Date: 03-Jun-2024

ANU NAGAR
Digitally signed by ANU NAGAR
DN: cn=ANU NAGAR, o=ANU NAGAR, email=anu.nagar@aiimsbibinagar.org

Designated Registration Authority Stamp

CDSCO Registration

The IEC committee was expanded on Feb 2024 and the revised committee composition as below



From April 2023 to till now, a total of 306 proposals were received by IEC and proposals reviewed with full committee and proposals under exemption from review category.

Out of 306 proposals,

- Extramural grant received projects -43
- Intramural grant - 50
- Applied for extramural grant -20
- Applied for ICMR STS- 16
- Sponsored Clinical trial-(ICMR)-2
- UG students non funded projects-90
- PG dissertations -85

The details of meetings conducted and proposals reviewed in each meeting as follows

S.No	Meeting number	Date of meeting	Number of proposals reviewed
1.	11th IEC meeting	10th June 2023	17
2.	12th IEC meeting	07th September 2023	40
3.	13th IEC meeting	04th November 2023	17
4.	14th IEC meeting	20th January 2024	39
5.	15th IEC meeting	15th May 2024	53
6.	16th IEC meeting	10th August 2024	56
7.	17th IEC meeting	9th November 2024	27
8.	18th IEC meeting	7th & 8th February 2025	57
9.	Exemption from review	15	
	Total		321



11th IEC Meeting with revised IEC Composition



12th IEC Meeting



13th IEC Meeting



18th IEC meeting

Workshop on Ethics and Clinical trials

As a part of training to ethics committee members and researchers, the IEC and CTRC organized the two-day Workshop on "Ethics and Clinical Trials" on 8th and 9th February 2024. The Chief Guest for this workshop was Prof. (Dr.) Y K Gupta, Professor of Pharmacology, President, AIIMS Vijaypur, Jammu. Glimpse of the workshop



Felicitations of IEC members

The members of IEC were felicitated on First Institute foundation day – 08 April 2024



Clinical Trial Review Committee (CTRC)

General Description

“Clinical trials” include any trials involving human participants, of any intervention such as drugs, medical devices, surgical procedures/techniques, preventive measures, lifestyle modifications, devices, educational or behavioral treatment, rehabilitation strategies, medical technology, as well as trials being conducted in the purview of the AYUSH.

At AIIMS Bibinagar, the Clinical Trial Review Committee (CTRC) was constituted by the Dean (Research) Prof. (Dr.) Sangeetha Sampath and the same was approved by the Executive Director Prof. (Dr.) Vikas Bhatia vide the O/o AIIMS/BBN/Res Sec/M17/2022/00-01 dated 29th August 2022. The objective of the CTRC is to judiciously monitor the conduct of clinical trials in our Institute.

The CTRC was further expanded vide the O/o AIIMS/BBN/Res-Sec/M17/2023/00-02 dt. 19th October 2024 with addition of two new members.

Members of the CTRC



Dr. Madhavi Eerike, Chairperson [Additional Professor, Pharmacology]

#Former Scientist-D (ICMR-HQ); #Member Secretary, IEC; #Site and Lead PI for many renowned trials; #More than 40 research publications; #Extramural projects from ICMR, DHR; #Areas of Interests: Infectious diseases, Rational pharmacotherapy, Diabetes, Lipid metabolism.



Dr. Ayya Syama Sundar, Member [Additional Professor, Anesthesiology]

#DM (Cardiothoracic Anaesthesiology); #27 Publications, h-index 11, i10 index 12; #Editorial member for Journal of Clinical Cardiology and Cardiology Research, Associate Editorial Board member for Journal of Clinical Research in Pain and Anesthesia (JCRPA) & Anaesthesia & Critical Care Medicine Journal (ACCMJ); #Areas of Interest: Artificial intelligence in perioperative medicine, Perioperative Echocardiography (TTE & TEE), cardiac anaesthesiology and cardiac critical care, and Chronic & Acute pain



Dr. R. Arun, Member [Additional Professor, Transfusion Medicine & Blood Bank]

#More than 30 research publications; #Author of a chapter in a book; #h-index 10; #434 citations #Reviewer of high impact journals; #Areas of interest: Immunohematology, Apheresis, HLA



Dr. Sai Krishna Tikka, Member [Additional Professor, Psychiatry]

#Post-doctoral fellowship (DBT-INCRE) from National Brain Research Centre (NBRC); #98 PubMed/SCOPUS publications (h-index 18) and 26 book chapters; #Extramural projects from DBT, DST, NIDA, UNICEF; #Areas of Interests: Psychotic disorders, Cognitive neuroscience, and Brain stimulation



Dr. V. Mounika Reddy, Member [Associate Professor, Paediatrics]

#DM Paediatric Critical Care; #More than 25 research papers and book chapters (h-index 5); #Extramural projects from SERB; #Areas of Interests: Pediatric critical care, Pediatric emergency, Septic shock, Tropical infections, Acute respiratory distress syndrome.



Dr. Gomathi R, Member [Associate Professor, CMFM]

#Member, National Centre of Excellence and Advanced Research on Anemia control (NCEAR-A), AIIMS New Delhi; #Mentor, Structured Operational Research and Training Initiative, WHO-TDR; #Nodal Person, State Centre of Excellence for Nutrition (SCOEN); #Extramural projects from UNICEF and ICMR; #Areas of Interests: Public health nutrition, anemia, malnutrition, epidemiology and implementation research



Dr. Gerard Marshall Raj, Member Secretary [Associate Professor, Pharmacology]

#Edited and published 3 Book volumes for Springer-Nature and also many research & review articles ($n \approx 50$; h-index 11); #Reviewer for National Institute for Health and Care Research (NIHR), UK and also for many other high-impact journals ($n \approx 35$); #Extramural projects from ICMR, SERB; #Areas of Interests: Pharmacogenomics, Precision medicine, Diabetes, AI, Drug patents and IPR

Proceedings of the CTRC

- ◆ The CTRC meetings are convened on a case-to-case basis based on the submission of clinical trial proposals by the Pis.
- ◆ The CTRC had convened four review meetings till date. The 4thCTRC Meeting was held on 27th October 2023. The following trials were deliberated,
 - A Randomized Controlled Trial on Occlusion versus Orthoptek for Amblyopia for the age group of 6-19 yrs, 20-40 yrs and > 40 yr age Group
Dr. Arvind Kumar Morya
Additional Professor & Head, Dept. of Ophthalmology,
AIIMS Bibinagar Principal Investigator
 - Efficacy and safety of PunarnavadiMandura alone and in combination with Drakshavaleha compared to iron folic acid in the treatment of moderate iron deficiency anaemia among non-pregnant women of reproductive age group: a community-based three arm multicentre randomized controlled trial
(ICMR sponsored)
Dr. Gomathi R
Assistant Professor, Dept. of CMFM, AIIMS Bibinagar
Principal Investigator
 - Two-Phase Study Evaluating the Risk Factors for Kidney Stone Disease (KSD) and Effect of Probiotic Use on KSD by Change in Gut Microbiota
(ICMR sponsored)
Dr. Anitha Swamy
Assistant Professor, Dept. of Nephrology, AIIMS Bibinagar
Principal Investigator
- ◆ After thorough scrutiny and close examination, all the threetrial proposals were accorded with conditional approval.



CTRc TRIAL PROJECTS							
S. No.	CTRc Protocol number	CTRc Meeting details	CTRc Provisional approval letter details	Trial Title	PI details	Funding agency	Tentative/ Provisional Budget sanctioned (INR)
1	AIIMS/BBN/CTRc/2023/June/Protocol 1/03	3 rd Meeting 7th June 2023	AIIMS/BBN/CTRc/2023/19, dated 09/06/2023	Deprescribing interventions (ARMOR) to reduce the risk of falls in geriatric population on Fall Risk Increasing Drugs (FRIDs) An open label, and parallel group randomised controlled trial (De-fried) trial	Dr. Madhavi Eerike Associate Professor Department of Pharmacology AIIMS Bibinagar, Hyderabad Telangana	ICMR	1,05,85,344 Sanction Amount Rs.39,25,437
2	AIIMS/BBN/CTRc/2023/September/Protocol 1/05	4 th Meeting 27th October 2023	AIIMS/BBN/CTRc/2023/43 dated 12.12.2023	Efficacy and safety of PunarnavadiMandura alone and in combination with Drakshavaleha compared to iron folic acid in the treatment of moderate iron deficiency anaemia among non-pregnant women of reproductive age group: a community-based three arm multicentre randomized controlled trial	Dr. Gomathi R Assistant Professor Department of Community Medicine AIIMS Bibinagar, Hyderabad Telangana	ICMR (CCRAS)	33,31,497 Sanction amount Rs.13,15,393/-
3	AIIMS/BBN/CTRc/2023/October/Protocol 1/06	4 th Meeting 27th October 2023	AIIMS/BBN/CTRc/2024/45 dated 09.01.2024	Two-Phase Study Evaluating the Risk Factors for Kidney Stone Disease (KSD) and Effect of Probiotic Use on KSD by Change in Gut Microbiota	Dr. Anitha S Assistant Professor Department of Nephrology AIIMS Bibinagar, Hyderabad Telangana	ICMR	1,29,99,634 Sanction amount Rs.57,97,697/-

Multidisciplinary Research Unit (MRU) -AIIMS Bibinagar

Background:

The Government of India has approved the establishment of Multidisciplinary Research Units (MRUs) in Government Medical Colleges as a significant initiative aimed at enhancing the health research infrastructure across the country. This initiative aligns with the Department of Health Research's mandate to promote, coordinate, and develop basic, applied, and clinical research.

Objectives of MRU

- Undertake Multi-Centric Research Projects: Facilitate collaborative research efforts across various institutions.
- Strengthen Research Environment: Foster a culture of quality research in medical institutions.
- Bridge Infrastructural Gaps: Address the lack of necessary facilities for advanced research.
- Capacity Building and Human Resource Development: Enhance skills and knowledge in health research.
- Ensure Geographical Spread of Health Research Infrastructure: Extend research capabilities to underserved areas.
- Improve Population Health Status: Utilize evidence-based research to enhance diagnostic procedures and healthcare outcomes.

Major Functions of MRU

- Promote Quality Medical Research: Encourage high-standard research practices in the medical field.
- Constitute Local Research Advisory Committees: Engage with state health officials to identify research priorities and projects.
- Focus on Non-Communicable Diseases (NCDs): Conduct research in NCDs and other essential areas as recommended by the Local Research Advisory Committee.

MRU at AIIMS Bibinagar

- MOU Signing: AIIMS Bibinagar signed a Memorandum of Understanding (MOU) with the Department of Health Research, Ministry of Health and Family Welfare (MOHFW), New Delhi, on 13th June 2022 for the establishment of the MRU.
- Local Research Advisory Committee and Executive committee formed under MRU
- Manpower: Research Scientist and Lab Technician positions have been filled.

LOCAL RESEARCH ADVISORY COMMITTEE

<u>Chairperson</u> Dr. Yogesh Chawla Former Director PGIMER Former Prof. & Head, Department of Hepatology PGIMER, Chandigarh	
<u>Co-Chairperson</u> Dr. Binod Kumar Patro Professor, Community Medicine and Family Medicine, AIIMS Bhubaneswar.	
<u>Members</u>	
Prof.(Dr). Vikas Bhatia Executive Director AIIMS Bibinagar Dr. Swayam Pragma Parida Additional Professor, Department of CM&FM, AIIMS Bhubaneswar Dr. Abhishek Arora, Medical Superintendent Professor, Department of Radiodiagnosis, AIIMS Bibinagar	Dr. Rahul Narang Dean (Academics) Professor &Head, Department of Microbiology, AIIMS Bibinagar Dr. Sangeetha Sampath Dean (Research) Professor & Head, Department of Biochemistry, AIIMS Bibinagar
<u>Nominee of State</u> Dr. M. Manohar District Medical and Health Officer Yadadri Bhuvunagiri District	<u>Nominee of ICMR Institute</u> Dr. G. Bhanuprakash Reddy Scientist –G, National Institute of Nutrition Head , Biochemistry Department of ICMR
<u>Member Secretary & Nodal Officer</u> Dr. Govindrao N.Kusneniwar. Associate Dean, Additional Professor, Department of CM&FM	

Executive committee members:

<u>Chairman</u> Prof.(Dr). Vikas Bhatia Executive Director - AIIMS Bibinagar
<u>Members</u> Dr Sangeetha Sampath Dean (Research) - AIIMS Bibinagar Dr MishuMangala Associate Professor, AIIMS Bibinagar Dept of Obstretics and Gynecology Dr Mounika Reddy Associate Professor, AIIMS Bibinagar Dept of Pediatrics <u>Nodal Officer</u> Dr.Govindrao N.Kusneniwar, Associate Dean - AIIMS Bibinagar

Research Projects Under MRU

1. Strengthening of Biomedical Waste Management at Different Healthcare Levels: A District Model
2. Gap Analysis, Challenges Encountered, and Strengthening of Primary Health Care Delivery Among Tribal Populations in India

Ongoing Projects

1. Strengthening of Biomedical Waste Management (BMWM) at Different Healthcare Levels: A District Model

- **Objective:**

- o Assess knowledge and resource gaps in BMWM across healthcare facilities in Yadadri Bhuvanagiri district.
- o Train healthcare workers (HCWs) and audit their adherence to BMWM protocols via trained Infection Control Nursing Officers (ICNs).
- o Evaluate the effectiveness of barcoding systems for BMW segregation and the utility of GPS-enabled vehicles for real-time BMW collection monitoring.
- o Assess the burden of BMW in domestic waste in Bibinagar mandal.

- **Progress:**

- o Data collection has been completed from 144 government facilities (including CHCs, PHCs, AHs, and SCs) and 20 private facilities.

2. Gap Analysis, Challenges Encountered, and Strengthening of Primary Health Care Service Delivery Among Tribal Groups in India

- **Aim:**

- o Establish an Advanced Resource Centre on Tribal Health catering to the Tribal Population in the South-Central Region.

- **Objectives:**

- o Conduct a comparative gap analysis of existing primary health care services versus their utilization in tribal areas.
- o Map health-seeking pathways and practices among tribal groups receiving primary healthcare.
- o Identify health system challenges, barriers, and enablers among stakeholders in the primary healthcare delivery cascade.
- o Promote health literacy among rural tribal beneficiaries regarding the appropriate use of healthcare opportunities.

- **Progress:**

- o An Advanced Resource Centre for Tribal Health has been established at the MRU AIIMS Bibinagar.

Advanced Resource Centre for Tribal Health

The Advanced Resource Centre for Tribal Health (ARcTH) was established and has been functioning since November 5th, 2023, at AIIMS Bibinagar. This establishment was approved by the Governing Body (GB) and the Scientific Advisory Committee (SAC) under the chairmanship of Dr. Vikas Bhatia, who serves as an Executive Member. ARcTH is a specialized institution focused on addressing the healthcare needs and services among the tribal population.

The Core committee members of ARcTH are as follows:

Chairperson Prof. (Dr) Vikas Bhatia - Executive Director, AIIMS Bibinagar	
Co-Chairperson Dr. Meely Panda , Associate Professor, CMFM, AIIMS Bibinagar	
Dr. Alka Bhingardeo , Associate Professor, Anatomy AIIMS Bibinagar	Member
Dr. Kalpana M , Additional Professor, Physiology AIIMS Bibinagar	Member
Dr. Vasanth Kumar Kasturi , Tutor, Faculty of Nursing College AIIMS Bibinagar	Member Secretary
Ms. Nandigama Vandana , Tutor, Faculty of Nursing College AIIMS Bibinagar	Member

The scope of this center includes:

- Conducting multicentric research studies in tribal areas focused on tribal welfare to enhance access to quality healthcare services for tribal communities. These studies aim to understand the unique health challenges faced by the tribal population, including communicable and non-communicable diseases, nutritional deficiencies, and maternal and child health issues.
- Capacity building of resource persons, including doctors, nurses, and community health workers, to provide culturally sensitive and effective healthcare services in tribal areas.
- Adopting schools in tribal belts, providing outreach health services, and conducting other awareness programs.

Under ARcTH, a tribal health project has been initiated to assess the "Gap Analysis, Challenges Encountered, and Strengthening of Primary Health Care Services, Health Seeking Pathway, and Health Literacy among Tribal Vulnerable Groups." This project was sanctioned under the Multidisciplinary Research Unit (MRU) - ICMR-DHR at AIIMS Bibinagar.

AIIMS Bibinagar serves as the primary center, catering to the Particularly Vulnerable Tribal Groups (PVTG) in Telangana, in collaboration with AIIMS Bhubaneswar, Odisha, and AIIMS Nagpur, in phases.

As part of the project, KumaramBheemAsifabad district was chosen based on the Prevalence of 5% tribal population and highest PVTG population in the state. % PHCs were chosen by simple random sampling, done a gap analysis and mapped health seeking pathways, challenges encountered and health literacy among the 270 beneficiaries interviewed from each PHC.

The goal of ARcTH is to:

- A. Improve the treatment-seeking pathway among the tribal beneficiaries who avail of primary healthcare services, specifically targeting the Vulnerable Tribal Population.
- B. Assess the gap analysis of services, challenges, and issues faced by various stakeholders on both the provider and receiver sides.
- C. Provide important inputs for planning policies and programs that are more community-centric.
- D. Highlight enabling factors that can serve as success stories, which can be replicated in similar settings.
- E. Develop modules for improving service care delivery and utilization, aiding in effective intervention.

Outcome:

- A. Understand the practices and preferences among tribal communities for seeking healthcare.
- B. Identify the issues faced by service providers in the provision of healthcare services to beneficiaries.
- C. Analyze the health system challenges in providing quality care.
- D. Determine the barriers and enablers among beneficiaries in accessing healthcare services.
- E. Develop a health education module for enhancing service provision.
- F. Conduct training and capacity building of service care providers.
- G. Collaborate with various institutes to coordinate efforts for the common benefit of uplifting tribal healthcare.

Future Plans:

Establish a state of art Centre for excellence in provision of Quality Tribal Health Service and Education.



First Institutional Foundation Day Celebrations

The All India Institute of Medical Sciences (AIIMS), Bibinagar, celebrated a significant milestone with its First Institute Foundation Day on March 8, 2024, reaffirming its commitment to excellence in medical education, healthcare, and research. This landmark event marked the first anniversary of the institute's foundation stone laying by the Honorable Prime Minister of India, Shri Narendra Modi Ji. The celebrations commenced with a grand inaugural ceremony, graced by eminent dignitaries, faculty, staff, and students. Padma Shri Prof. Dr. Yogesh Chawla, Professor Emeritus and Ex-Director, PGIMER Chandigarh, honored the event as the Chief Guest. Joining him as Guests of Honor were Prof. Dr. Meenu Singh, Executive Director, AIIMS Rishikesh, and Prof. Dr. GVS Murthy, President, PRASHO Foundation and Ex-Director, IIPH Hyderabad. The event was presided over by Prof. Dr. Vikas Bhatia, Executive Director and CEO, AIIMS Bibinagar, along with distinguished faculty members, including the Deans and Administrative Heads of the institute. The ceremony was also virtually attended by Prof. Dr. George A de Souza, President, AIIMS Bibinagar.

The formal proceedings commenced with the lighting of the ceremonial lamp. The AIIMS Bibinagar anthem, composed by Dr. Pragnesh Parmar (Additional Professor and Head, Dept. of Forensic Medicine), was performed live, encapsulating the institution's ethos and aspirations. A key highlight of the event was the launch of the E-Office initiative at AIIMS Bibinagar, aligning with the Government of India's Digital India and green initiatives. The Disaster Management Sub-Committee released two publications—Emergency Preparedness: Saving Lives in Crisis and Jeevan Dayani: Saving Lives, One Beat at a Time—highlighting its commendable efforts in emergency preparedness. The video presentations showcased the state-of-the-art infrastructure of AIIMS Bibinagar's future campus.

In just three years, AIIMS Bibinagar has made remarkable strides in research and innovation, securing several intramural and extramural funded projects. Notable achievements include the establishment of a Multidisciplinary Research Unit (5 crores), a VDRL lab (1.5 crores), a One Health Regional Center (1.2 crores), and an upcoming Biosafety Level III laboratory (17 crores). Additionally, with 657 publications and 16 active research collaborations, AIIMS Bibinagar continues to strengthen its academic and scientific contributions. The event recognized the invaluable contributions of external members of the Scientific Advisory Committee and Institute Ethics Committee, whose expertise has been instrumental in shaping the research landscape at AIIMS Bibinagar. The honored members included:

- ◆ Padma Shri Prof. Dr. Yogesh Chawla, Chairman, Scientific Advisory Committee
- ◆ Dr. Swayam Pragyan Parida, AIIMS Bhubaneshwar
- ◆ Dr. Sadashivudu, Nizams Institute of Medical Sciences, Hyderabad
- ◆ Dr. Bhanu Prakash, ICMR-National Institute of Nutrition, Hyderabad
- ◆ Prof. Dr. G Suryanarayan Raju, Chairman, IEC, AIIMS Bibinagar
- ◆ Shri. Padma Rao Lakkaraju, Legal Expert, IEC, AIIMS Bibinagar
- ◆ Ms. Meeta Joshi, Social Scientist, IEC, AIIMS Bibinagar
- ◆ Shri. Durga Das Saha, Lay Representative, IEC, AIIMS Bibinagar
- ◆ Smt. MVL Narayanamma, Lay Representative, IEC, AIIMS Bibinagar

The academic segment featured enlightening lectures by esteemed speakers. Padma Shri Prof. Dr. Yogesh Chawla delivered an insightful keynote address, while Prof. Dr. Meenu Singh spoke on the "Art and Science of Asking Questions and Finding Answers," emphasizing the importance of curiosity-driven, evidence-based medical research. As part of the Institute Foundation Day celebrations, the Institute Research Committee (IRC) organized an E-poster competition for undergraduate and postgraduate students and faculty to showcase the research work conducted at AIIMS Bibinagar. The event saw enthusiastic participation, with nearly 80 posters displayed. Certificates were awarded to the winners, and faculty members who had completed intramural funded projects were also recognized. The Director presented a Certificate of Appreciation to Dr. Lakshmi Jyoti Tadi, Additional Professor, Microbiology, and Nodal Officer, E-Sanjeevani, for her significant contributions. Certificates of appreciation were also awarded to faculty and staff who had completed the highest number of courses under Mission Karmayogi Bharat, the National Program for Civil Services Capacity Building. Recipients included Dr. Durgesh Prasad Sahoo, Assistant Professor, Department of CMFM; Ms. Nikita Singh, Nursing Officer; and Mr. Suraj Kumar Meena, Nursing Officer. The event concluded with a Vote of Thanks delivered by Prof. Dr. Sangeetha Sampath, Dean (Research) and Chairperson of the Institute Foundation Day Committee.



Prof. Vikas Bhatia (Executive Director) and Guest of Honors with the team of Research Section



“Pan-AIIMS Research Colloquium” Dean Research Meet at AIIMS Delhi - 29th January 2025

1. Introduction

A Pan-AIIMS Research Colloquium was held on January 29, 2025, at Dr. Ramalinga Swami Boardroom, AIIMS, New Delhi. This is the first of its kind unique meeting involving Dean Research from all AIIMS. This meeting was attended by Dr. Govindrao Kusneniwar, Associate Dean Research, AIIMS Bibinagar. The meeting brought together esteemed Deans, Associate Deans, Faculty, researchers, and administrators from various AIIMS campuses across India. The day-long event included discussions on the status of research at various AIIMS, their vision for promoting research and research insights, and based on that lay the ground work for a PanAIIMS Research Consortium that would promote inter-institutional collaboration by providing a common platform for excellence in the field of healthcare research and innovation.

2. Visit to Central Research Facilities

The initial session featured guided visits to key research facilities at AIIMS, New Delhi. We were taken to the Centralized Core Research Facility, where cutting-edge equipment and resources supporting diverse biomedical research activities such as Genomics, Proteomics, FACS, Microscopy, Bio-analytics, General Facility etc. were showcased. At the Clinical Research Unit, we learned about ongoing capacity building initiatives, clinical trials support and research projects that bridge research and patient care. Prof. Vijay Mathur, In-charge, CRU apprised the delegation about the inception, ongoing activities, achievements and future plans of the CRU. The tour concluded at the Centre for Medical Innovation & Entrepreneurship, which highlighted the institute's efforts to foster innovative solutions and entrepreneurial ventures in healthcare.

3. Research Presentations: Sharing Insights and Vision

Prof. M. Srinivas, Director, AIIMS, welcomed all Deans and emphasized the importance of collaborative research across AIIMS institutions under an umbrella body such as Pan-AIIMS Research Consortium. He highlighted that by pooling resources and knowledge, the consortium could significantly advance health care innovation and translational research, which can be a good resource for implementing large clinical trials, epidemiological studies etc. This was followed by an address by Prof. K.K. Verma, Dean of AIIMS, who highlighted the need to prioritize impactful research and cultivate a culture of collaboration across the AIIMS institutions. Prof. Nikhil Tandon, Dean (Research) addressed the gathering virtually and extended his support for setting a Pan-AIIMS Research Consortium detailing research achievements at AIIMS, New Delhi, the challenges faced, and future vision. He opined that a comprehensive and insightful colloquium marked a significant step toward building a cohesive research network across AIIMS institutions, with a shared vision of advancing healthcare research and innovation for the betterment of society. Then he introduced the concept of the Pan-AIIMS Research Consortium, setting the stage for collaborative initiatives. He highlighted the importance for collaboration in healthcare research with common aim to

address health problems at national level by pooling resources and knowledge. The subsequent session featured presentations by representatives from various AIIMS campuses, each Speaker from each campus followed, providing a comprehensive overview of their research activities, and vision for research and innovation at their respective institutions.



Dr Govindrao N.K., Associate Dean Research, Presented Research work of AIIMS Bibinagar & Received the Felicitation from Honorable Prof. (Dr.) M. Srinivas, Director, AIIMS Delhi at PAN-AIIMS Research Colloquium

4. Discussion on Pan-AIIMS Research Consortium

A strategic discussion on the Framework for the Pan-AIIMS Research Consortium was moderated by Prof. Rohit Bhatia. Delegates exchanged views on creating a robust and sustainable framework to facilitate collaborative research across AIIMS institutions. Key themes include dresourcesharing, harmonization of research protocols, and joint funding opportunities. Participants unanimously agreed on the need for a centralized digital platform to streamline research efforts and acommon ethical review board toexpedite research approvals. The discussion also highlighted the importance of regular research colloquia to share progress and insights. The participants also agreed to meet periodically through hybrid meetings to review the progress and take the agenda forward.



5. Summary and Way Forward

A summary session encapsulated the day's proceedings. The key outcomes were discussed, and a roadmap was outlined for the formal establishment of the Pan-AIIMS Research Consortium. Participants expressed enthusiasm about the collaborative potential and committed to active participation.



Executive **Director, Prof.(Dr.) Vikas Bhatia** presenting **"Anusandhan"** Second Edition of Institute Research Magazine to honorable Health Secretary, MoHFW, **Shri Apurva Chandra** in SFC

Honorable Union Minister of Power and New & Renewable Energy, Shri R K Singh ji released the Second Edition of research magazine "Anusandhan"



Honorable Union Minister of Power and New & Renewable Energy, Shri R K Singh ji visited All India Institute of Medical Sciences Bibinagar on 20th, Jan 2024 and released the Second Edition of research magazine "Anusandhan"

COMPLETED EXTRAMURAL FUNDED PROJECTS

S.No	File No	Project Title	PI	Date of sanction	Agency	Total Budget	Status
1	AIIMS/BB N/EM-F/2011/01	Mental health of frontline healthcare workers in rural Telangana	Dr. Vikas Bhatia Executive Director	29.7.2021	UNICEF	Rs.4,70,865	Completed
2	AIIMS/BB N/EM-F/2011/03	Evaluation of the effectiveness of the national health mission (NHM) policy of co-locating AYUSH within primary health care	Dr. Neeraj Agarwal	04.03.2020	AYUSH	Rs.29,97,750	Project is completed but Financially not yet closed
3	AIIMS/BB N/EM-F/2011/07	Proposal for collaboration on chest X-Ray computer Aided Diagnosis	Dr.Abbhishek J.Aron	15.11.2021	C-DAC	Rs.1,00,000	Completed
4	AIIMS/BB N/EM-F/2011/04	Advancing biomedical interventions for prevention of RSV disease in under-five children: Indian Case study	Dr. Vaman kulkarni	22.12.2021	KNIT	Rs.1,50,000	Completed
5	AIIMS/BB N/EM-F/2012/10	Study of factors influencing progression of neuropathy in type II diabetic patients using cutaneous nerve biopsy	Dr.Sunitra Sivakoti	21.03.2022	TSCOST	Rs.4,00,000	Completed
6	AIIMS/BB N/EM-F/2012/12	Zoonotic Enteric Pathogen: Is it a hidden enemy in the Human –Animal interfaces? – A retrospective cohort study in children less than five years from a rural community of Telangana	Dr.Rahul Narang	20.04.2022	ICMR	Rs.25,60,195	Completed
7	AIIMS/BB N/EM-F/2012/13	Predictors of breakthrough infection and re-infection of COVID-19 among Indian population a deep learning approach	Dr.Gerard Marshal	20.04.2022	ICMR	Rs.9,67,000	Completed
8	AIIMS/BB N/EM-F/2012/14	Multi-slice spiral CT scan study of surgical Anatomy of hepatic veins- application in living live donor liver transplantation	Dr.Aika Bhingardeo	20.04.2022	ICMR	Rs.1,27,250	Completed
9	AIIMS /BBN/EM-F/2013/27	Time motion study of accredited social health activist (ASHA) workers in India	Dr. Rashmi Kundapur	23.8.2023	Niti Ayog	Rs.101,500	Completed
10	AIIMS /BBN/EM-F/2013/24	Evidence synthesis for the use of stem cell therapy: Conducting systematic review/Meta analysis	Dr.Madhavi Eerike	11.09.2023	ICMR-DHR	Rs.7,09,200	Fund returned to the funding agency and project Completed
TOTAL						Rs.83,74,560	

Evaluation of performance of the AYUSH services co-located with Primary Health Centres under the National Health Mission policy of co-locating AYUSH within Primary Health Care

PI: Prof. (Dr.) Vikas Bhatia

Executive Director & CEO AIIMS, Bibinagar

Collaborating institutions: AIIMS, Bhubaneswar, AIIMS, Mangalagiri, AIIMS, Patna, AIIMS, Jodhpur, AIIMS, Nagpur and National Health System Resource Centre (NHSRC), New Delhi

Site PI

Prof. (Dr.) Neeraj Agarwal, AIIMS Bibinagar
Dr. Binod Patro, AIIMS Bhubaneswar
Dr. Pankaja Ravi Raghav, AIIMS Jodhpur
Dr. Pradeep R Deshmukh, AIIMS Nagpur
Dr. Arti Gupta, AIIMS Manglagiri

Background

The Ministry of AYUSH was established in 2014 to promote indigenous systems of medicine like Ayurveda, Yoga, Naturopathy, Unani, Siddha, Sowa-Rigpa, and Homoeopathy. The National AYUSH Mission under National Health Policy 2017 aims to provide cost-effective AYUSH healthcare by integrating these services into Primary Health Centers (PHCs) and promoting research and validation of community-based practices. The co-location of AYUSH within PHCs aims to offer diverse treatment options, enhance PHC functionality, and improve National Health Program implementation. However, there is limited data on its accessibility, service quality, and challenges, highlighting the need for evaluation and improvements in AYUSH services provided in the co-located centres.

The aim of this study was to evaluate the performance of co-locating AYUSH within Primary Health Care and to compile recommendations for future actions to ensure better effective integration of AYUSH into Primary Health Centers under the Ayushman Bharat program. The objectives of the study were to assess AYUSH services, audit prescriptions, evaluate patient satisfaction, identify challenges, and develop key performance indicators for co-located AYUSH services in PHCs.

The study adopted a mixed-methods study design which used quantitative (checklist-based assessments, review of existing records, and structured patient interviews) and qualitative research methods (in-depth interviews and focus group discussions of medical officers, program managers, frontline workers, and patients). AIIMS Bibinagar conducted the cross-sectional study in collaboration with the National Health System Resource Centre across five states with one district per state (Guntur-Andhra Pradesh, Patna-Bihar, Nagpur-Maharashtra, Khordha-Odisha, Jodhpur-Rajasthan) to evaluate AYUSH services at co-located PHCs, using guidelines from the National Health Policy, WHO, and MoHFW. 10 PHCs were randomly selected from each district for the assessment.

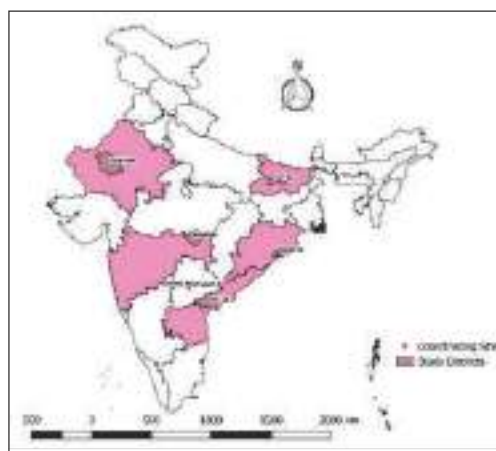


Fig: Study sites

Key Findings:

A checklist-based assessment was used to identify gaps in infrastructure, resources, AYUSH drugs, service records, outreach, specialty clinics, herbal gardens, and AYUSH medical officers' participation in national health programs. In 2021, AYUSH OPD footfall ranged from 865 in Rajasthan to 4500 in Odisha, significantly lower than allopathic OPDs, while infrastructure gaps were evident, with only 20% of PHCs in Odisha and 40% in Rajasthan and Bihar having separate AYUSH rooms. AYUSH medical officers were not regularly posted at PHCs, particularly in Andhra Pradesh, and most states lacked allied healthcare staff like pharmacists and nurses. Additionally, AYUSH drug supply chain issues were prevalent, with only 25% of PHCs receiving regular drug supplies, and 57% of PHCs having herbal gardens. Both healthcare providers and patients trusted and appreciated AYUSH services, but also stated the need for better facilities, including examination rooms, signboards, AYUSH pharmacies, and drug storage (qualitative findings).

A total of 250 prescription slips from patients across 50 PHCs were audited for completeness and legibility using a checklist based on WHO recommendations. Prescription slips did not fully meet WHO and MoHFW recommendations, with key details like diagnosis (64%), drug intake duration (56.5%), and next visit (25%) often missing, and over half of the slips in Odisha (60%) and one-fourth in Maharashtra (26%) being difficult to read. The non-availability of AYUSH drugs led to AYUSH doctors prescribing external or allopathic drugs under pressure. Additionally, unclear labeling and descriptions of AYUSH drugs caused confusion and mistrust among patients and healthcare staff (qualitative findings).

A semi-structured interview tool was used to assess the satisfaction of 250 patients regarding their experience with AYUSH OPD services. Most patients (76%) traveled around five kilometers to visit AYUSH OPDs, with 95% satisfied with accessibility, though 36% were unsatisfied with infrastructure, especially privacy during exams. Over 70% learned about AYUSH services through friends or family, and 74% were satisfied with the AYUSH drugs provided, citing minimal side effects. However, 40% were dissatisfied with drug availability, and 36% felt there was insufficient health education material in the OPDs.

A total of 64 in-depth interviews and focus group discussions were conducted with AYUSH medical officers, MBBS doctors, frontline workers, and patients to explore challenges and opportunities in AYUSH services. The challenges in AYUSH services provision are - misgoverned AYUSH drug supply chain, inadequate infrastructure, human resources, few referral centers for AYUSH, and poor AYUSH allopathy coordination. AYUSH medical officers faced challenges in coordination with MBBS doctors due to limited AYUSH drugs and allied healthcare resources.

Success factors included high patient satisfaction, acceptance of AYUSH, active participation of AYUSH medical officers, and MBBS doctors recognizing its effectiveness in managing chronic conditions like arthritis and skin diseases. Opportunities and lessons learned include community awareness, integration of AYUSH indicators in HMIS, empowering farmers for AYUSH raw material production, improved coordination between AYUSH and allopathy, and streamlining AYUSH drug supply chains. Patients and health workers proposed local herbal gardens, farmer empowerment, government procurement, and subsidies for growing medicinal plants to support AYUSH drug production.

Documents related to AYUSH co-location at PHCs were reviewed to capture data on input, process, output, and outcome indicators, with the indicators reviewed by the Technical Resource Group. While all states had policy guidelines for AYUSH co-location, less than 20% of PHCs in Andhra Pradesh and Bihar had AYUSH facilities, and the logic model with indicators can be used for monitoring service quality.

Recommendations

The study recommends strengthening the AYUSH drug supply chain, increasing awareness through IEC materials, and improving infrastructure, human resources, and funding for better service delivery. A strong network of referral centers is to be established to provide a continuum of care under AYUSH. Documenting the efficacy and side effects of AYUSH drugs, strengthening funding for research, efficient quality control measures including prescription audits and improving labeling and packaging is essential to enhance understanding and trust among patients. Indicators should be developed (majorly focusing on process, output and outcome) and included in the routine health management and information system.



Focus group discussion among Frontline workers in Rajasthan



Interview with MBBS medical officer in Maharashtra



Indepth Interview with MBBS medical officer, Guntur District, Andhra Pradesh



1st TRG meeting on 04th March 2021 at AIIMS, Bibinagar



1st TRG meeting on 04th March 2021 at AIIMS, Bibinagar



Dissemination meeting with participation of dignitaries from National Research Institute of Unani Medicine for Skin Disorders (NRIUMSD), Central Council for Research in Ayurvedic Sciences (CCRAS), Central council for Research In Homoeopathy (CCRH), National Health Systems Resource Centre (NHSRC) and AIIMS, Bibinagar

"Magnitude and Determinants of Zoonotic Enteric Disease in Under Five Children of Rural Telangana." Unique ID of the Project:- ICMR adhoc proposal _2021-11852 IRC No: AIIMS/BBN/EM - F/2022/12

Principal Investigator and Co-Investigators:-

Principal Investigator

- * Dr. Rahul Narang (PI), Dean (Academics), Prof and Head, Dept of Microbiology, AIIMS Bibinagar, Telangana

Co Investigators:

AIIMS Bibinagar, Hyderabad, Telangana:

- * Dr Raja S, Assistant Professor, Microbiology
- * Dr Vaman Kulkarni, Assistant Professor, CMFM
- * Dr Sunil kumar D Chavan, Assistant Professor, Microbiology
- * Dr Lakshmi Jyothi T, Additional Professor, Microbiology
- * Dr Shalam Nikhat Sheerin, Associate Professor, Microbiology

National Meat Research Institute, Hyderabad, Telangana:

- * Dr Laxman Chatlod, Scientist
- * Dr Deepak Rawool, Scientist
- * Dr P. Baswa Reddy, Scientist
- * Dr SB Barbuddhe, Director & Senior Scientist

Implementing Institution and other collaborating Institutions:-

- * Department of Microbiology, AIIMS, Bibinagar, Telangana
- * National Meat Research Institute, Hyderabad, Telangana

Date of commencement:- 01-03-2023

Duration:- 1 Year 2 Months Date of Completion:- 30-04-2024

Introduction: Diarrhea is the primary cause of malnutrition and the second leading cause of death in children under five.(1,2) Swachh Bharat Mission, Open Defecation Free initiative, Mission Bhagiratha, post-COVID behavioural changes, and deworming programs have enhanced water, sanitation, and hygiene (WASH) practices in India. As per law of nature, a decline in diarrhoea by routine water-borne / soil-transmitted organisms might cause an increase in zoonotic organisms, thus maintaining ecological balance. (Figure 1)

Growing evidence suggests that asymptomatic zoonotic enteric pathogens (ZEP) negatively impact children's growth and nutrition. (3-5) Etiology of self-limiting diarrheal illnesses and the carriage rates of ZEP remain unexplored in many areas.

Rationale: This is the first kind of study exploring the asymptomatic carriage of zoonotic enteric pathogen among rural and urban children. Factors determining association between domestic exposure & children's diarrheal illness and the genetic relatedness of zoonotic pathogen species not has been explored in detail.

Methodology:

A collaborative study by AIIMS Bibinagar and ICAR-NMRI investigated the prevalence of ZEP carriage in children under five who had experienced diarrhea in the past three months, their domestic animals and factors associated with carriage of diarrheal pathogens.

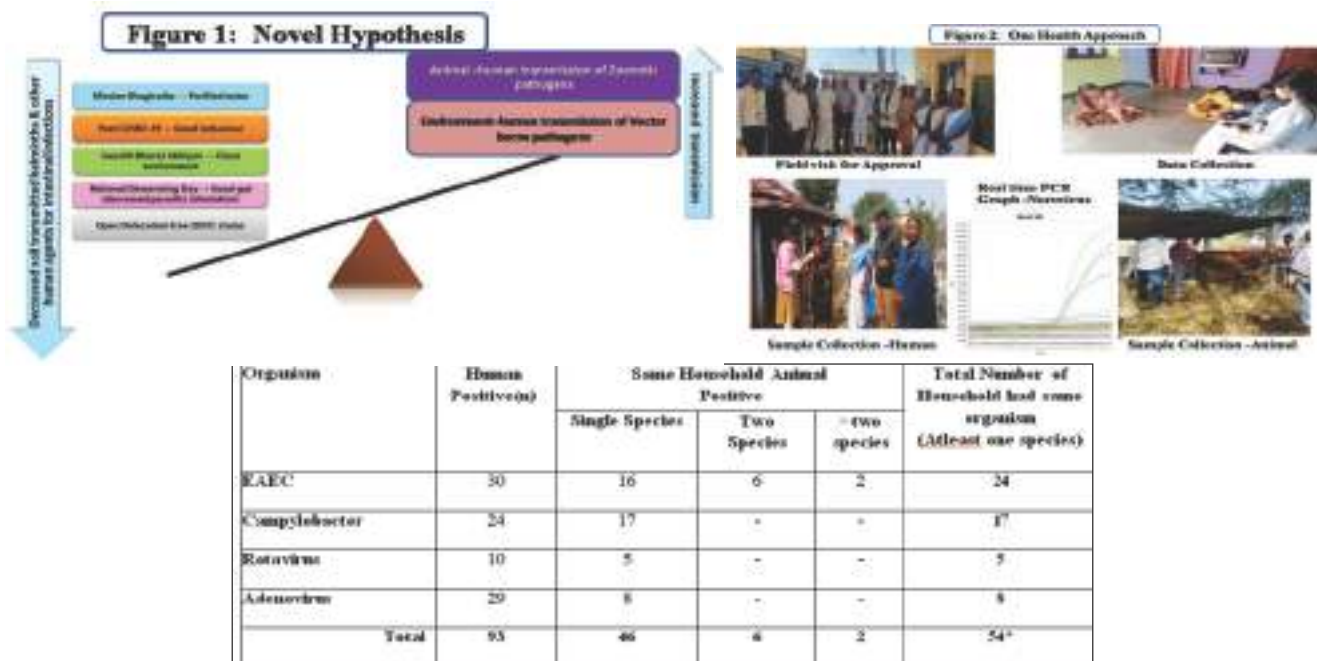
Study included 244 households—122 rural with high animal density and 122 urban controls. Door-to-door survey gathered demographic details, WASH practices, and animal interaction data. Subsequently, 692 stool samples were collected (122 from participants, 122 from controls, and 448 from rural domestic animals, averaging four animals per house) and analyzed using stool culture, microscopy, and PCR. The samples were tested for bacterial pathogens like diarrheagenic *Escherichia coli*, *Salmonella* spp., *Yersinia enterocolitica*, and *Campylobacter* species; parasites like *C. parvum* and *G. lamblia*; and viral pathogens such as Rotavirus, Adenovirus, Norovirus, Astrovirus, and Sapovirus.

Results:

Asymptomatic carriage was found in 50% (122/244) of urban and rural children and 77% (94/122) of rural children specifically. Rural children uniquely harboured *Campylobacter* species, Rotavirus, Sapovirus and combinations of two organisms, while Adenovirus was solely isolated from urban children. The predominant bacteria were Enterotoxigenic *E. coli* (EAEC) and *Campylobacter* species, found in 32 and 24 children respectively, and among viruses, Adenovirus and Astrovirus were most common, with counts of 46 and 29. No parasites were detected. EAEC was primarily found in rural children (30 rural vs. 2 urban), and Astrovirus was equally isolated from both settings. Seven children had a combination of Adenovirus and *Campylobacter*. One isolate contained three different viruses, and another sample yielded four pathogens: Adenovirus, Astrovirus, Norovirus, and EAEC.

Asymptomatic carriage among animals was 17.2% (77/448), predominantly EAEC (8.7%) and *Campylobacter* (4.5%). EAEC mainly affected cattle, while *Campylobacter* was found only in hens, and Rotavirus solely in cows. Adenovirus affected both cows and sheep.

In 93 households with infected children, 45 (48.4%) had the same pathogens in one of their animals. Eight households showed EAEC across multiple species. Factors influencing ZEP presence were limited caregiver education, lack of handwashing facilities, proximity of animal shelters (<100m), animals entry and defecation in living areas, and unprotected animal drinking sources.



*9houses had combination of different pathogen in different animal

Advancing biomedical interventions for prevention of RSV disease in under-five Children India Case study

(AIIMS/BBN/EM-F/2021/08)

PI - Dr. Vaman Kulkarni

Associate Professor,
Department of Community Medicine and Family Medicine

CO-PI :

1. Prof. (Dr.) Neeraj Agarwal, Head of Department of Community Medicine and Family Medicine
2. Dr. Madhuri Taranikanti, Additional Professor, Department of Physiology

Fund amount: Rs. 150000

The AIIMS, Bibinagar is identified as one of the partners in conduction of this study in Andhra Pradesh. The collaborating partners include AIIMS, New Delhi, United Nations Development Project (UNDP), and International AIDS Vaccine Initiative (IAVI). Under this project, following 3 districts are included, viz.,

1. Guntur
2. Krishna
3. West Godavari

These districts are selected on the basis of:

- Immunization (Basic and ANC-Tetanus toxoid coverage (NFHS-4 data)
- Severe Pneumonia burden (Farooqui et al, 2015)
- ANM vacancy (HMIS 2018-19)

The aim of this study is to assess the need for introduction of a vaccine and other interventions against RSV, which is a leading cause of illness and death among children < 5 years old in India. The field level study will include following study participants from each district:

- I. Mothers / Caregivers
- II. Community Health Workers (CHW - ANMs, ASHA etc.) & Health care providers (HCP- Pediatrician-teaching hospital MO-PHC).
- III. Program Managers (PMs) (Block, District, State)
- IV. Policy Influencers (Policy Makers, NGO Heads, Medical Associations, WHO Representatives)

Qualitative data collection techniques like Key informant interviews, In depth interviews and Focus group discussions were conducted with the participants. At the end of the study, the policy makers would like to identify feasibility and need for the introduction of RSV vaccine in India.

Results

ALRI/pneumonia risk was perceived by both community and system level respondents with variations between and within states, often based on previous pneumonia experience. High pneumonia burden was well recognized by PMs and HCPs. However, among FHWs and beneficiaries' awareness regarding pneumonia varied across states and awareness of RSV was mostly absent. Across respondents, the need for newer product/s to provide early protection and decrease burden was well-recognized due to perceived risk, pneumonia management gaps, and decreasing trends in pneumonia attributable to newer vaccines recently introduced. Both product strategies were acceptable (slightly greater preference for maternal products), although acceptance of a new product was expected to take time amongst the beneficiaries. Acceptance was influenced by perceived benefits (early protection, greater effectiveness etc.) and risk (miscarriage, premature delivery, multiple pricks etc.) in the community. Need for awareness generation efforts in the community and provision of relevant scientific information – burden, cost-effectiveness, efficacy etc. across community and system stakeholders was reiterated for timely acceptance and uptake. Across stakeholders, integration with the Universal Immunization Program was considered critical with products provided free of cost through government facilities closer to home. However, considerations regarding administration of pediatric vaccines at gap periods or as combination vaccines, mixed approach using both maternal and pediatric products were suggested along with evidence need to support product and context-specific implementation planning.

Recommendations and / or Conclusion

Previous vaccination experiences have positively influenced demand for prevention from ALRIs. While both maternal and pediatric strategies remain acceptable, there is a need for early awareness generation efforts supported with relevant scientific information (disease and product related) to ensure better demand and uptake. In addition, aligning stakeholder preferences while planning delivery scenarios and implementation strategies for both maternal and pediatric products can enable acceptance and uptake.

"Multi-slice spiral CT scan study of surgical anatomy of hepatic veins-application in living live donor liver transplantation"

Extramural Project Completed under ICMR

**Unique ID of the Project (provided by ICMR):
ICMR-IRIS-ID2021-11497**

Principal Investigator

PI: Dr. Alka Bhingardeo,

Associate Professor,
Department of Anatomy, AIIMS Bibinagar

Co-PI:

1. Dr. Mrudula Chandrupatla, Professor and Head of Department of Anatomy, AIIMS Bibinagar
2. Dr. Annapurna Srirambhatla, Additional Professor, Department of Radio-diagnosis, AIIMS Bibinagar
3. Dr. Suneeth Jogi, Associate Professor, Department of Radio-diagnosis, ESIC, Hyderabad
4. Dr. Kumar Satish Ravi, Professor and Head of Department of Anatomy, AIIMS Gorakhpur

Background and rational -

Liver receives blood from two sources, the portal vein and the hepatic artery. Hepatic veins are arranged in two groups, an upper group (the major hepatic veins) and a lower group (the minor hepatic veins). Upper group consists of right, middle and left hepatic veins which drain into inferior vena cava (IVC). The lower group varies in number and extent of distribution. They are small veins draining directly into the inferior vena cava from segment I and occasionally from segments VII and VIII.

Living donor Liver transplantation (LDLT) is an emerging option in patients with end stage liver diseases due to scarcity of donor livers. LDLT involves two major procedures, first -a portion of liver is removed from the donor and second – the removed portion is transplanted to the recipient and hepatic venous reconstitution and anastomosis are done. In the right lobe transplantation, the hepatectomy line passes approximately 1 cm to the right side of the middle hepatic vein as a standard procedure.

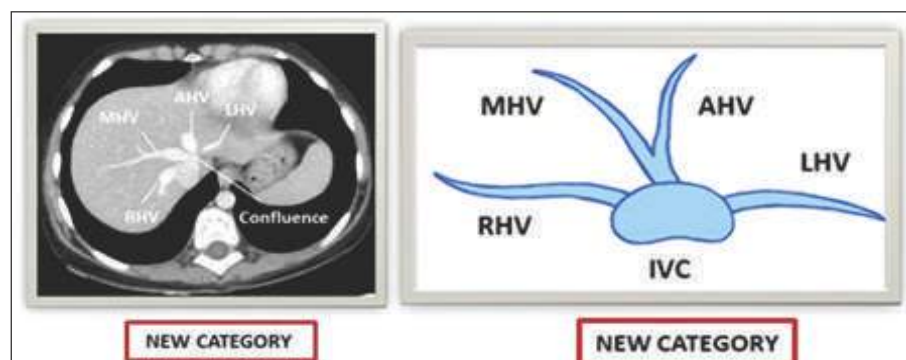
Variations in the drainage pattern of hepatic veins have been reported from time to time. Knowledge of surgical anatomy of hepatic veins and its associated variations is prerequisite for liver transplantation surgeries. Presence of confluence and accessory vein can lead to change of entire surgical approach. If neglected may account to postoperative haemorrhage and failure of transplantation

The knowledge of branch order and parameters like distance of peripheral most branch of hepatic veins from the nearest hepatic surface helps in hepatic vein reconstitution between donor and recipient hepatic veins.

A pilot study of 100 cases was done on different population. Scarcity of data in literature, variations encountered in the pilot study and significance of this information for successful liver transplantation prompted the present study of larger sample size of 1000 cases.

Its retrospective multi-slice spiral CT study carried on 1000 patients multi-slice spiral CT scans with liver reported as normal. Total number of hepatic veins, presence and absence of accessory veins and confluence with its varied patterns, length and diameter of hepatic veins, distance of peripheral most branch of hepatic veins from nearest hepatic surface and branch order of hepatic veins were studied.

Key Findings - In the present study, total number of hepatic veins, presence and absence of accessory veins and confluence with its varied patterns were studied. We found maximum cases with 2 and 3 major hepatic veins which indicate presence of confluence. Confluence between left and middle hepatic veins was highest with 38% of total 54% of cases with confluence. We also found confluence between middle and accessory hepatic vein which is not mentioned in any present classifications. In addition, we have measured confluence length and diameter which holds significance in hepatic resection and anastomosis. The mean confluence length was 0.88 ± 0.39 cm while mean confluence diameter was 0.57 ± 0.20 cm. We found accessory hepatic veins in 15% of cases. Length and diameter of hepatic veins also studied. Mean diameter of accessory hepatic vein is 3.1mm. All three hepatic veins were maximum traceable till fifth order. Most of the veins were traceable till second branch order. PMVB was present between 5-10 mm from nearest hepatic surface for all major hepatic veins.



Conclusion –

Major hepatic veins show variations in the total number and confluence pattern. Very few studies are there on surgical anatomy and morphometry of hepatic veins.

Studies on branch order and distance of peripheral most branch of major hepatic veins not found in the literature yet. The knowledge of these parameters will help in hepatic venous reconstruction anastomosis in liver transplantation.

It is mandate to report the presence of accessory hepatic veins in the transplantation report as surgical approach changes when accessory vein has diameter more than 3mm and requires special venous reconstitution for that particular vein to avoid graft rejection and hemorrhage. The mean diameter of accessory veins in our study is 3.1mm which is significant finding of our study.

The novel findings in the present study throw lights on possibility of variations which can help surgeon to have prior road map of alternative approach in transplantation and other hepatobiliary surgeries.

Publication - Bhingardeo AV, Chandrupatla M, Jogi S, Srirambhatla A, Ravi KS. Study of confluence of hepatic veins application in liver transplantation. *Anat Cell Biol.* 2024 Dec 31;57(4):517-522. doi: 10.5115/acb.24.071. Epub 2024 Aug 6. PMID: 39104148; PMCID: PMC11663525.



TIME MOTION STUDY OF ACCREDITED SOCIAL HEALTH ACTIVIST(ASHA) WORKERS IN INDIA



IRC Approval: AIIMS/BBN/Res/EM/2023/389

IEC Approval: AIIMS/BBN/IEC/JUNE/2023/280

This study was conducted in collaboration with IIPH Delhi and NITIAYOG India. Study duration of 3 months and funding was from NITIAYOG of Rs.1,01,500/-budget

Rationale of study was to find the need of time and energy of ASHAS and the bottle neck for them to work effectively.

12 sites were done all over India;Total 560 ASHAs,560 husbands and mother -in-laws of ASHAS and 560 supervisors were interviewed

In each site 43 of them and 129 mothers of each household were interviewed. ASHA's were followed up in their work activity. Also average time spent were calculated. Pattern of work time distributed is checked by checklist.

PI of the project Dr.Rashmi Kundapur

Co-PI: Dr. Chandralekha Kona

Co-PI: Dr. Neeraj Agarwal

Department of CM&FM



Predictors of Breakthrough Infection and Reinfection of COVID-19 among Indian Population: A Deep Learning Approach

ICMR Grant No.: BMI/12(28)/2021
(Project ID No.: 2021-6384)
AIIMS/BBN/EM-F/2022/13
Total Budget Released: Rs. 6,03,094

Principal Investigator:

Dr Gerard Marshall Raj

Associate Professor Dept. of Pharmacology
AIIMS Bibinagar

Co-Investigators:

Dr. Sathian D

Assistant Professor (Sr.)
School of Computer Science and Engineering Vellore
Institute of Technology, Chennai Junior Research
Fellow: Mr. Gangadari Saikiran

Prof. Dr. Neeraj Agarwal

Professor and Head
Dept. of CMFM, AIIMS Bibinagar

Introduction

By the time the number of pandemic cases peak, it is essential to know the possible projected number of cases. This information would greatly aid in healthcare planning and preparing medical facilities and also for better warning issuance to general public without disrupting day-to-day activities. Due to the complexity of the time-series data, forecasting disease occurrence is quite difficult and for accurate predictions the relationship between past and future cases requires to be meticulously analysed. The data often lacks a uniform pattern and may not follow straightforward patterns, requiring the use of more robust models for high accuracy.

With this background, we extracted requisite data from the given ICMR datasets and created machine learning (ML) models to predict the occurrence of future COVID-19 cases. We also evaluated multiple models to detect the most efficient one for precise prediction.

Dataset Description

The dataset included detailed information about COVID-19 tests (through ICMR Specimen Referral Form for COVID-19) such as patient age, gender, state, city, and district of sample collection, underlying health conditions, sample collection date, testing kit used, and test results.

For predicting the COVID-19 positive cases, we processed the data by aggregating the number of positive results based on the sample collection date (from nearly 174 million COVID-19 testing data). This resulted in a dataset that spans 306 days of 2020, with each entry reflecting the number of positive samples collected on that day. This processed dataset was used to develop a predictive model in our experiments.

Results and Discussion

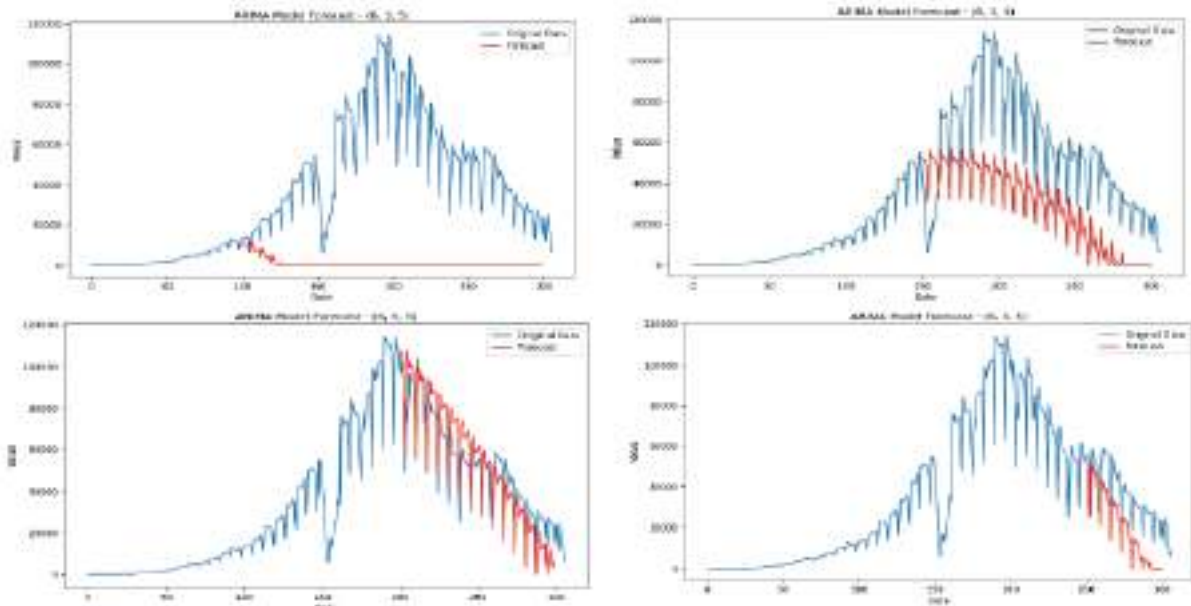
We have utilized various methods to predict the future COVID-19 cases. Graphs were generated for each of the models for better visualization. The methods included ARIMA, SARIMAX, LSTM with Dense Layers, LSTM with Simple RNN cells, LSTM with Convolution and Dense layers, GRU with Dense layers, GRU with Simple RNN cells, RNN – Sliding Window (10), RNN – Sliding Window (15), RNN – Discrete Window (10), RNN – Discrete Window (15), ARIMA with RNN with discrete window.

ARIMA Model:

An Autoregressive Integrated Moving Average (ARIMA) is a statistical analysis model that uses time series data to either better understand the data set or to predict future trends. A stationery series is a time series where the statistical variables are constant with time. The series can be made stationary by performing differencing where the previous value is subtracted from the current value according to the Eq-

$$X_{d,t-1} = X_t - X_{t-1}$$

In Figure 1, the prediction plots of the ARIMA models of the best fit parameters show that the short-term prediction of the algorithm, i.e., about 10 next data points, is closer to the real data. The algorithm is able to predict the approximate trajectory of the data but is not able to perform an accurate prediction.



RNN models with sliding window data: In the sliding window approach, a window size is set to a discrete value. The elements of the window size are taken and the window is moved one step ahead. In this experiment we utilized two methods RNN – Sliding Window (10) and RNN – Sliding Window (15). From this two methods RNN – Sliding Window (10) had performed very well and the prediction plots on the full data and the test data are given in Figure 2 and Figure 3. By observing the Figure 2, the prediction plot of the model is much better fitted to the original data, with a minor variation in the predicted and actual data points. The same can also be observed in the test data plot in Figure 3, where the prediction plot is close to the true data points, with the prediction only having minor deviations at a few points. By visually comparing the prediction plots, the window size of 10 is able to perform a better prediction on the full data and testing data compared to the window size of 15.

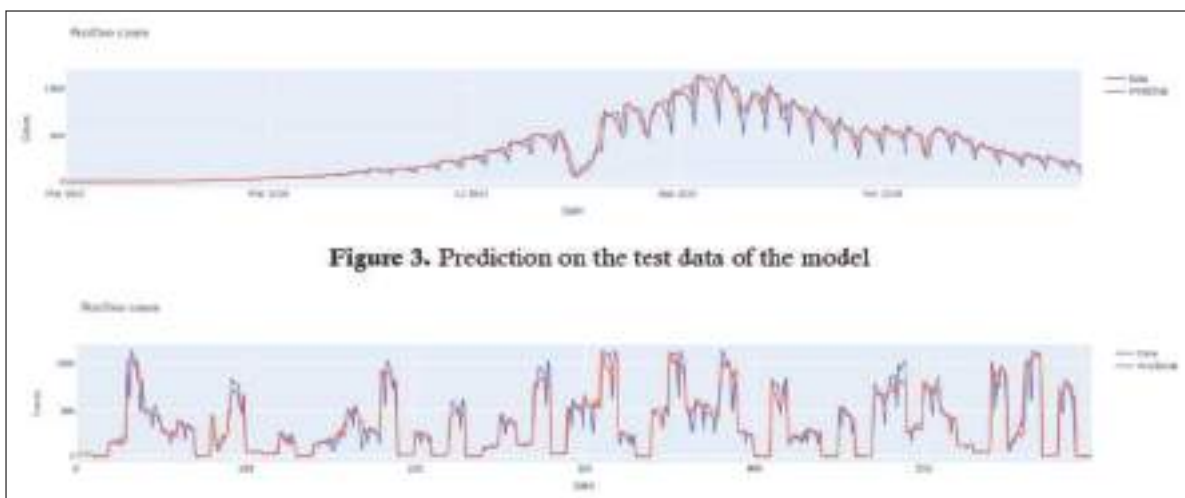


Figure 3. Prediction on the test data of the model

We compared the performance of each method using three loss functions, namely, Mean Absolute Error (MAE), Mean Absolute Percentage Error (MAPE), and Huber Loss. The Table 1 summarizes the results for each method:

Table 1. Quantitative performance reports (error rates) of different models

Method	Mean Absolute Error	Mean Absolute Percentage Error	Huber Loss
ARIMA – (6,3,5)	9924.15	24.79	9923.65
SARIMAX – (1,1,0), (2,0,1,7)	15460.85	58.53	15460.35
LSTM with dense layers	6295.90	25.37	6295.40
LSTM with simple RNN cells	32421.04	98.95	32420.54
LSTM with convolution and dense layers	25376.78	72.75	25376.28
GRU with dense layers	5525.53	23.57	5525.02
GRU with simple RNN cells	32694.27	99.99	32693.78
RNN – sliding window (10)	4220.97	5724073.00	4220.47
RNN – sliding window (15)	3610.07	35925372.00	3609.57
RNN – discrete window (10)	7975.90	24.71	7975.40
RNN – discrete window (15)	9300.97	63.67	9300.47
ARIMA with RNN with discrete window (Hybrid Model)	6478.77	136949024.00	6478.29

Therefore, the comparison of the performance on the testing dataset, it can be inferred that the RNN with Sliding Window approach demonstrates the highest performance among the compared works, with a window size of 10 being the most optimal according to loss metrics.

Conclusion and Interpretation

The present result in accurately predicting the future cases would allow governments, and other related stakeholders to effectively allocate healthcare resources – including infrastructure and manpower. Hence, it would help in both public health planning and policy making. These result outputs may also contribute in effective financial management reducing overall negative economic impact, pandemic risk mitigation and management, and scientific exploration. Further, these results can be extrapolated to other emerging viral infectious diseases in the future with regards to prior prediction of occurrence of positive cases over a period of time.

Initiation of India's First Year Long Drone based Health Supply to Support National Tuberculosis Elimination Program in the Challenging Terrains of Yadadri Bhuvanagiri

Aligned with the "Atma Nirbhar Bharat Initiative," India initiated its first year-long drone-based health supply for TB elimination in Yadadri Bhuvanagiri, Telangana, following the "Drone Services for Health Outreach Initiative" launched by the Hon'ble Prime Minister on October 29, 2024. This launch, part of a larger event with Rs. 12,850 crore health projects, was linked to Dhanvantari Jayanti and Ayurveda Day.

The ICMR project, "Feasibility study on use of drone in transportation of sputum samples and drugs under National TB Elimination Program among tribal and hilly areas of Yadadri-Bhuvanagiri district of Telangana," initiated by Dr. Bhushan D. Kamble, PI & Associate Professor, Dept. of CFM at AIIMS Bibinagar, uses drones to transport TB samples and medications from remote areas to TB diagnostic facility at CHC or District Hospital. The Drone operations started from sub enters under 5 PHCs under 2 Tuberculosis Units (TU) in January 2024 covering almost half of the district. This project was inaugurated by Hon. Prime Minister virtually from New Delhi on 29th October 2024 along with drone operations in other AIIMS in the country. This project was extended to whole district of Yadadri-Bhuvanagiri districts covering all 4 TUs and 11 PHCs. This extended project was launched by Hon'ble Minister of State, MoHFW, Smt. Anupriya Patel Ji virtually from New Delhi on November 14, 2024, by pressing the button of remote for Drone flights from PHC Kondamadugu and SC Mariyala to TU Bhongir carrying sputum samples of TB suspects. Executive Director of AIIMS Bibinagar, Prof. (Dr.) Vikas Bhatia emphasized the Drone project's importance for TB Mukht Bharat initiative. This event was attended by Dean(Academic) Prof. Rahul Narang, Medical Superintendent Prof. . Abhishek Arora, Deputy Director (Administration) Dr. Bipin P. Varghese, ICMR Scientists Dr. Sumit Aggarwal, Dr. Kuldeep Nigam & Dr. Simmy Kaur and key state officials including DTO Dr. Sai Shobha, MOs Dr. Sarvan Kumar, Dr. Harsha alongside ASHA workers and support staff.

The Drone team at the Institute level under Professor Dr. Vikas Bhatia, Executive Director, AIIMS Bibinagar, constitutes of Dr. Neeraj Agarwal, HOD, CFM, Dr. Rashmi Kundapur as the nodal person, Dr. Bhushan Kamble as the additional nodal person cum PI, Dr. Meely Panda and Dr. Vidya Ganji as CO-PIs of the project.

India's first year-long drone-based health supply system for NTEP was initiated with two drones (3-8 kg payload, 30-60 km range), operated by MoCA-licensed TSAW Drone Pvt Ltd, have transported ~900 TB samples from 54 sub-centres and 108 villages across 5 PHCs in Bhongir and Ramanapet TUs by October 31, 2024. Medication transport also occurs. Plans exist to expand district-wide.

This initiative enhances remote healthcare access, reduces costs, and align with primary healthcare and sustainable goals, it aims to serve vulnerable populations and contribute to "Viksit Bharat & TB Mukht Bharat."



Drone Launch Program on 29th October, 2024



Audience watching the live telecast of the AIIMS Bibinagar Drone Launch Program by Hon'ble Prime Minister Narendra Modi in the Institute Auditorium



ASHA workers and Drone Didis along with the Institute Drone team

Institute Drone Team, Department of Community Medicine and Family Medicine, Administration and Staff, AIIMS Bibinagar along with ICMR representatives at the Launch of Drone Services for Health outreach by Shri Narendra Modi, Honourable Prime Minister of India



Drone Health Outreach Program on 14th November, 2024



Drone Project team as well as ICMR representatives along with Executive Director, AIIMS Bibinagar Prof Dr.Vikas Bhatia at the site of Initiation of the first sortie



AIIMS Bibinagar and ICMR Team at Subcentre Mariyala for the transport of TB Sputum Samples to TU Bhongir & Drone takes off at Sub-Centre Mariyala.



Drone Team at TU Bhongir for the receipt of the transported TB Sputum Samples from PHC Kondamadugu and Subcentre Mariyala

Holistic Health as conceived by AIIMS Bibinagar

Prof. (Dr.) Rahul Narang, Dean (Academics), Professor & Head, Department of Microbiology
Dr. Yona M, Senior Resident, Department of Microbiology

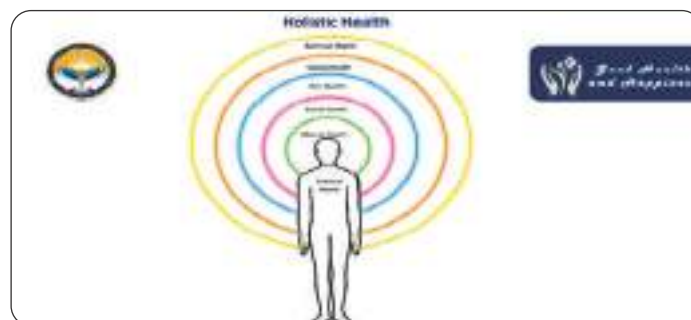
In an age where health is often viewed through a narrow lens, All India Institute of Medical Sciences (AIIMS) Bibinagar is pioneering a revolutionary approach to health through the concept of Holistic Health. This model encompasses six essential entities: Physical Health, Mental Health, Social Health, One Health, Global Health, and Spiritual Health. This article explores each component, the unique aspects of our model compared to traditional definitions of health, and presents relevant facts and figures to underscore the importance of a holistic approach.

The WHO Definition of Health

The World Health Organization (WHO) defines health as “a state of complete physical, mental, and social well-being and not merely the absence of disease or infirmity.” This definition emphasizes the multifaceted nature of health, extending beyond physical ailments to include psychological and social dimensions. However, it has been criticized for its idealistic nature—complete well-being may be unattainable for many individuals. This has led to a growing need for a more practical and inclusive health model that addresses various aspects of human existence.

AIIMS Bibinagar's Holistic Health Model

The Holistic Health model developed at AIIMS Bibinagar seeks to fill the gaps in the WHO definition by integrating additional dimensions of health that reflect contemporary societal needs. Each of the six entities plays a vital role in promoting overall well-being, acknowledging that these aspects are interdependent and contribute to a comprehensive understanding of health.



1. Physical Health

Physical health is the most recognized component of health, encompassing the well-functioning of the body and the absence of illness. AIIMS Bibinagar advocates for proactive measures to maintain physical health, such as regular exercise, balanced nutrition, preventive healthcare, and lifestyle modifications. According to the WHO, non-communicable diseases (NCDs) such as heart disease, stroke, and diabetes are among the leading causes of death globally, accounting for 71% of all deaths in 2016. Promoting physical health is crucial for reducing the burden of NCDs and enhancing quality of life.

2. Mental Health

Mental health is gaining increased recognition as an essential component of overall health. The WHO defines mental health as a state of well-being in which an individual realizes their own abilities, can cope with the normal stresses of life, can work productively, and is able to contribute to their community. At AIIMS Bibinagar, mental health services are integrated into all healthcare settings, emphasizing early detection and intervention for mental health disorders. The Institute also has Gate keeper program ingrained in the curriculum for students.

Mental health disorders affect 1 in 4 people globally, according to the WHO. By addressing mental health alongside physical health, we aim to reduce stigma, improve access to care, and develop supportive environments for individuals experiencing mental health challenges.



3. Social Health

Social health focuses on the relationships and social networks that individuals maintain, which significantly impact their overall well-being. At AIIMS Bibinagar, we recognize the importance of social interactions in enhancing mental and physical health. Strong social connections are linked to lower rates of anxiety and depression, improved immune function, and a greater sense of belonging.

Research indicates that social isolation can be as detrimental to health as smoking 15 cigarettes a day. By promoting social health, we aim to create community engagement programs and support networks that facilitate healthy relationships, thereby enhancing the well-being of individuals and communities.

4. One Health

The One Health concept recognizes the interconnectedness of human health, animal health, and environmental health. This approach is crucial in addressing emerging infectious diseases, many of which are zoonotic in nature. At AIIMS Bibinagar, we advocate for a collaborative approach to health that involves various sectors, including healthcare, collaboration with veterinary public health, and environmental surveillance. The Institute has been recognised as Regional Co-ordinator for One Health by National One Health Programme for Prevention and Control of Zoonoses (NOHP-PCZ), by NCDC under Ministry of Health & Family Welfare.

The COVID-19 pandemic highlighted the importance of the One Health approach. By promoting One Health, we aim to enhance disease surveillance, prevention, and control efforts across human, animal, and environmental domains.



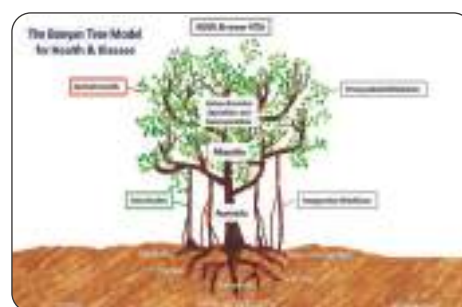
5. Global Health

Global health encompasses health issues that transcend national borders and require international cooperation for resolution. AIIMS Bibinagar recognizes the importance of addressing global health challenges, such as pandemics, climate change, and health inequities. The Institute will initiate DM in Global Health from January 2025 session onwards.

According to the WHO, approximately 5 million children under the age of five die each year due to preventable causes, highlighting the urgent need for global health initiatives. Our model encourages collaboration with international organizations, governments, and NGOs to address global health disparities and promote equitable access to healthcare resources.

6. Spiritual Health

Spiritual health is often overlooked in traditional health models, yet it plays a significant role in overall well-being. At AIIMS Bibinagar, we acknowledge that spiritual health can provide individuals with a sense of purpose, meaning, and connection to something greater in life. This can encompass spiritual beliefs, personal values, and a sense of belonging to a community. The foundation course for new entrants to MBBS & B.Sc. Nursing involves introduction to contemplative practices and non-violent communication at Kanha Shantivanam, Hyderabad run by Heartfulness Institute with Padma Bhushan Shri Kamlesh Patel (Daaji) as its president. Research shows that individuals with strong spiritual health often report higher levels of life satisfaction, lower levels of anxiety and depression, and better coping mechanisms during stressful times. By promoting spiritual health, we aim to support individuals in their quest for meaning and fulfilment, ultimately contributing to their overall well-being.



Conclusion

The Holistic Health model developed at AIIMS Bibinagar represents a significant advancement in the understanding and promotion of health. By integrating Physical Health, Mental Health, Social Health, One Health, Global Health, and Spiritual Health, we provide a comprehensive framework that addresses the diverse needs of individuals and communities. This approach not only aligns with contemporary health challenges but also fosters a deeper understanding of well-being in an interconnected world.

In a landscape where health is often reduced to the absence of disease, AIIMS Bibinagar's Holistic Health model redefines what it means to be healthy. By promoting a multifaceted approach to health, we aspire to improve individual and community well-being, ultimately contributing to a healthier society for all.



Awards and Recognition

Dr. Ayya Syama Sundar - Additional Professor, Anesthesiology

Received first position in E poster (title: "Celiac plexus block as an indicator of surgical success in median arcuate ligament (MAL) syndrome: a case report") faculty category at the 38th national conference of Indian Society for Study of Pain: ISSPCON 2024 at Pune, Maharashtra, on 2nd to 4th February 2024. Case report summary: This patient presented with severe, continuous periumbilical postprandial abdominal pain, numeric rating scale (NRS), 7/10 for two months. CT scan of the abdomen showed mild kinking of the celiac artery after its origin with post-stenotic dilation, and duplex Ultrasound showed increased velocities at the origin of the celiac axis (PSV 234 cm/sec). Under fluoroscopic guidance, retrocaval CPB was given with 20 ml of 0.75% Ropivacaine after confirmation with contrast. After the procedure, the patient's NRS improved to 2/10 which persisted for two days. Later, the patient underwent open MA decompression, which completely relieved his pain. Various pathophysiological mechanisms have been suggested to explain the symptoms of MALS, but none has been proven. However, more evidence supports that MALS is primarily neuropathic and that the absence of celiac artery compression should not be used as an exclusion criterion.



Dr. S Kalyani Surya Dhana Lakshmi,

Addl Prof, Anesthesiology

Consolation Prize in Paper "Cost analysis of different medical oxygen sources for a healthcare facility in India"



Dr. Rekha Priyadarshini, Associate Professor, Pharmacology

Received award at Association of Clinical Pharmacologists, Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), Navi Mumbai and KEM, Mumbai held on 2024-09-28 at Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), Kharghar, Navi Mumbai on the title "Left-Over Medications: A Community-Based Study Among Households in Central Districts of Telangana"

Dr. Mishu Mangla,

Associate Professor, OBGY

Awarded Fellowship of Indian College of Obstetricians and Gynecologists on 19/10/24, which is considered as a prestigious award in our field.





Dr Ranjith Kumar Y - Assistant Professor, Orthopaedics

Awarded best innovation award for inventing PIXORT application in TOSACON 2023- For PIXORT app. Dr Ranjith Kumar Y got a TOSA Gold medal 2024 for new instrument for percutaneous elevation of tibial plateau fractures

Dr. Syed Ifthekar - Assistant Professor, Orthopaedics

Awarded with ASSI Travelling fellowship in 2024 January, which is a prestigious fellowship granting access to 3 best spine centres across India. The exposure helped him to improve upon the already existing spine services in the department of orthopaedics, AIIMS Bibinagar



Dr. Anish Waghray - Senior Resident, Anesthesiology

Won second prize in Senior Residents category in e poster competition held in AIIMS Bibinagar on the occasion of 1st Institute Foundation day of AIIMS Bibinagar

Dr Poojitha Kalyani Kanikaram - Senior Resident, OBGY

Under guidance of Dr. Mishu Mangla (Associate Professor, Department of Obstetrics and Gynecology), won first prize in poster competition held in All India Congress of Obstetrics and Gynecology organized in HICC, Hyderabad from 6-10 January 2024. She presented a poster on "Fraser Syndrome with Limb Reduction Defect: A rare and unique anatomic variation".



Dr. Aniruth Chand Anna C - Junior Resident – Academic, Anaesthesiology

Won the second prize in "The Myeloma Quiz" conducted at AIIMS Bibinagar on March 26, 2024. This quiz, centered around hematology and hemato-oncology, was a challenging and intellectually stimulating event that tested participants' knowledge of various blood disorders, including myeloma, leukemia, lymphoma, and other cancers of the blood and bone marrow. The event was meticulously organized and provided a platform for students and professionals to showcase their understanding of complex topics in these specialized fields of medicine. The competition was structured in multiple rounds, with questions ranging from basic hematological concepts to advanced diagnostic and treatment protocols. The quiz not only tested my theoretical knowledge but also encouraged critical thinking and quick decision-making under pressure. Winning the second prize was a rewarding experience that deepened my passion for hematology and oncology. It was an excellent opportunity to engage with like-minded individuals, exchange knowledge, and gain insights into the rapidly evolving field of hematological research and clinical practice. This achievement has motivated me to continue exploring this fascinating and crucial area of medicine.

Dr Akhila - Junior resident, Orthopaedics

Won third prize in poster presentation in TOSA 2024 Mid term CME. Dr Akhila also won the ICMR grant for Thesis Support by ICMR

Patent Certificate received by Dr. Naina Kumar, Additional Professor, Department of OBGY on 29-02-2024 granted by "The Patent Office, Government of India" for an invention titled 'AN ASSAY FOR DETECTION AND QUANTIFICATION OF ANTI-PROSTATE SPECIFIC ANTIGEN ANTIBODIES'.



क्रम सं.-SL No. 144180592



पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

पेटेंट प्रमाण पत्र

Patent Certificate

(पेटेंट विध्यावली का विधम 74)

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 517131
 आवेदन सं. / Application No. : 202341014443
 फाइल करने की तारीख / Date of Filing : 03/03/2023
 पेटेटी / Patentee : 1.KUMAR, Naina 2.KOLE, Labanyamoy 3.SINGH, Amit Kant

प्रमाणित किया जाता है कि पेटेटी को, उपरोक्त आवेदन में ब्यवहकित **AN ASSAY FOR DETECTION AND QUANTIFICATION OF ANTI-PROSTATE SPECIFIC ANTIGEN ANTIBODIES** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मार्च 2023 के तीसरे दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled **AN ASSAY FOR DETECTION AND QUANTIFICATION OF ANTI-PROSTATE SPECIFIC ANTIGEN ANTIBODIES** as disclosed in the above mentioned application for the term of 20 years from the 3rd day of March 2023 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 29/02/2024
 Date of Grant :

पेटेंट नियंत्रक
 Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए बीस, चरि इसे बनाए रखा गया है, मार्च 2025 के तीसरे दिन को और उसके बादवा हरवस वर्ष में उहे दिन येर लेहे।

Note - The fees for renewal of this patent, if it is to be maintained, will fall / has taken due on 3rd day of March 2025 and on the same day in every year thereafter.

Certificate of Registration of Design received by Dr. Prafull K, Additional Professor, Department of Physiology & Dr. Vandana D, Associate Professor, Department of Physiology on 21-03-2024 granted by "The Patent Office, Government of India" for an design titled to 'NON-INVASIVE BLOOD PARAMETER DETECTOR'.



पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India
डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 393426-001
 तारीख / Date : 23/08/2023
 परस्परिकता तारीख / Reciprocity Date* :
 देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **NON-INVASIVE BLOOD PARAMETER DETECTOR** से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Sreenidhi Institute Of Science And Technology 2. Dr. Shruti Bhargava Choubey 3.Dr Abhishek Choubey 4.Dr Prafull Kamble 5.Dr Vandana Daulatabad के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-02 in respect of the application of such design to **NON-INVASIVE BLOOD PARAMETER DETECTOR** in the name of 1.Sreenidhi Institute Of Science And Technology 2. Dr. Shruti Bhargava Choubey 3.Dr Abhishek Choubey 4.Dr Prafull Kamble 5.Dr Vandana Daulatabad.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अधीन प्रवधानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि :
 Date of Issue : 21/03/2024



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दिनांक/Dated: 08/07/2024

1. पंजीकरण संख्या/Registration Number	L-150643/2024
2. आवेदक का नाम, पता तथा राष्ट्रियता Name, address and nationality of the applicant	DR. RAVITEJA PUNNAPA, JUNIOR RESIDENT, DEPARTMENT OF ANATOMY, ALL INDIA INSTITUTE OF MEDICAL SCIENCES AIIMS BIBINAGAR, HYDERABAD, TELANGANA-508126 INDIAN
3. कृति के प्रतिनिधित्वकर्ता के आवेदन के विषय की प्रकृति Nature of the applicant's interest in the copyright of the work	AUTHOR
4. कृति का वर्ग और वर्णन Class and description of the work	LITERARY/DRAMATIC WORK
5. कृति का शीर्षक Title of the work	PUNNAPATLA CLASSIFICATION OF THE EXTERNAL CAROTID ARTERY (ECA) BRANCHING PATTERN VARIATIONS
6. कृति की भाषा Language of the work	ENGLISH
7. रचयिता का नाम, पता और राष्ट्रियता तथा यदि रचयिता की मृत्यु हो गई है, तो मृत्यु की तारीख Name, address and nationality of the author and if the author is deceased, date of his decease	DR. RAVITEJA PUNNAPA, JUNIOR RESIDENT, DEPARTMENT OF ANATOMY, ALL INDIA INSTITUTE OF MEDICAL SCIENCES AIIMS BIBINAGAR, HYDERABAD, TELANGANA-508126 INDIAN DR. MRUDULA CHANDRUPATLA, ADDITIONAL PROFESSOR, DEPARTMENT OF ANATOMY, ALL INDIA INSTITUTE OF MEDICAL SCIENCES AIIMS BIBINAGAR, HYDERABAD, TELANGANA-508126 INDIAN
8. कृति प्रकाशित है या अप्रकाशित Whether the work is published or unpublished	UNPUBLISHED
9. प्रकाशक का नाम, पता और देश तथा प्रकाशक का नाम, पता और राष्ट्रियता Name and country of first publication and name, address and nationality of the publisher	N.A.
10. बाद के प्रकाशकों की वर्ष और देश, यदि कोई हो, और प्रकाशकों के नाम, पता और राष्ट्रियता Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publishers	N.A.
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12. अन्य व्यक्तियों के नाम, पता और राष्ट्रियता, यदि कोई हो, जो प्रतिनिधित्वकर्ता को अनुमति देते हैं या अनुमति देने के लिए अधिकृत हैं। Names, addresses and nationalities of other persons, if any, authorized to assign or license of rights comprising the copyright	N.A.
13. यदि कृति एक 'सांस्कृतिक कृति' है, तो कृति का प्रारंभिक स्थान, पता और राष्ट्रियता, जिस पर कृति का प्रारंभ हुआ। (यदि कृति एक 'सांस्कृतिक कृति' है, तो कृति का प्रारंभिक स्थान, पता और राष्ट्रियता, जिस पर कृति का प्रारंभ हुआ।) If the work is an 'Artistic work', the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown).	N.A.
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15. यदि कृति एक 'सांस्कृतिक कृति' है, तो कृति का डिजाइन अधिनियम 2000 के अधिनियम पर पंजीकृत है या नहीं, यदि हाँ, तो विवरण दें। If the work is an 'Artistic work', whether it is registered under the Designs Act 2000, if yes give details.	N.A.
16. यदि कृति एक 'सांस्कृतिक कृति' है, तो कृति का डिजाइन अधिनियम 2000 के अधिनियम पर पंजीकृत है या नहीं, यदि हाँ, तो विवरण दें। If the work is an 'Artistic work', whether it is registered under the Designs Act 2000, if yes give details.	N.A.
17. टिप्पणी, यदि कोई हो। Remarks, if any	



(Signature)
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Registrar of Copyrights

आवेदन संख्या/Diary Number: 1123/2024-COL
आवेदन की तिथि/Date of Application: 11/01/2024

Patent Certificate received by Dr. Rekha Priyadarshini, Associate Professor, Department of Pharmacology & Dr. Gerard Marshall Raj, Associate Professor, Department of Pharmacology on 25-08-2023 granted by "The Patent Office, Government of India" for an invention titled 'SALT-SOAP-POVIDONE IODINE-TREATED TRIPLE-LAYERED MEDICAL MASK WITH FILTER'.



क्रम सं. SL No 144158927



पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

पेटेंट प्रमाण पत्र

Patent Certificate

(पेटेंट विध्यावली का विधम 74)

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 447400
 आवेदन सं. / Application No. : 202041022468
 फाइल करने की तारीख / Date of Filing : 28/05/2020
 पेटेटी / Patentee : 1.Rekha Priyadarshini 2.Gerard Marshall Raj

प्रमाणित किया जाता है कि पेटेटी को, उपरोक्त आवेदन में यथाप्रकटित **SALT-SOAP-POVIDONE IODINE-TREATED TRIPLE-LAYERED MEDICAL MASK WITH FILTER** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मई 2020 के अट्ठाईसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled **SALT-SOAP-POVIDONE IODINE-TREATED TRIPLE-LAYERED MEDICAL MASK WITH FILTER** as disclosed in the above mentioned application for the term of 20 years from the 28th day of May 2020 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 25/08/2023
 Date of Grant :

पेटेंट नियंत्रक
 Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए बीस, यदि इसे बनाए रखा जाना है, मई 2022 के अट्ठाईसवें दिन को और उसके परवर्तन वाले वर्ष में उसी दिन देय होगी।

Note - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 28th day of May 2022 and on the same day in every year thereafter.

Participation as Resource Person in External Events

Dr. Niraj Kumar – Professor & HoD, Neurology

Participated in various teaching Academic sessions - at Indian academy of Neurology Annual conference at Vizag, Movement disorder sessions at AIIMS Bhubaneswar, Conference on Sleep at Apollo hospitals, Chennai, and several other conferences and CMEs at National and International level



Dr. S Kalyani Surya Dhana Lakshmi

- Additional Professor Anaesthesiology

1. As a DNB Inspector to assess eligibility of a hospital or Institute for accreditation to a postgraduate program is a big responsibility. It entails inspection of the whole hospital in terms of infrastructure, teaching , laboratories , radiological services, laundry, manifold, liquid oxygen, and adequacy of work . The census as well as work flow, protocols have to be checked and documented.
2. Invited as a resource person to 6th Laparoscopic Surgery and complications of pneumoperitoneum, Faculty, Association of Minimal Access Surgeons of India (AMASI) Star Hospital on 8th December 2023.(National)
3. Invited as a PG Teacher to PG assembly held in Osmania Medical College and Star hospitals: EPPT and TARGET (Telangana Anaesthesia Residents Goal Oriented Examination Training), which addresses the different nuances of preparation for the exam. It involves discussion of cases , Viva OSCE .

Dr. Radhika Soanker

Additional Professor & Head, Pharmacology

Invited as Guest-of-Honour for Inaugural Session of Residential short term training program on “Artificial Intelligence (AI) in Healthcare” organised by Malaviya Mission Teacher Training Centre (MMTTC), at National Institute of Technology (NIT), Warangal on 18/11/2024. After the inaugural session, delivered an invited lecture on Role of AI in Healthcare, in which discussed regarding the current status of AI based research in healthcare in India; how AI based research in healthcare is different from the AI based research in other fields like education, agriculture; challenges, limitations and ethical issues involved.



Dr. Ayya Syama Sundar - Additional Professor, Anesthesiology

1. Attended as resource faculty for the CME on Advanced perioperative monitoring an update, organised by Yashoda Anaesthesia Forum, at Yashoda hospital, Hitec city, Hyderabad, Telanagana, India on 17.03.2024. In the update he delivered lecture on cardiac output and Preload responsiveness.
2. Attended as resource faculty for the hands-on workshop on Spinal Sonography at AIIMS Bibinagar, organised by the Department of Anaesthesiology, Hyderabad, Telangana, India on 13.03.2024. during the workshop he delivered lecture on the Diagonal view of Spinal ultrasound and demonstrated the views of Spinal Sonography
3. Attended as resource faculty for simulation based workshop on: 25th “Ramachandra Anesthesia Continuing Education – RACE 2024”, organised by the department of Anaesthesiology and Pain medicine, at Sri Ramachandra Medical College & Research Institute, SRIHER, Porur, Chennai, Tamil Nadu, India, from 26.01.2024 to 28.01.2024. during the workshop he delivered lecture on Concepts and case scenario related to hemodynamic monitoring and actively involved in simulation based training on various clinical scenarios.
4. Attended the workshop on musculoskeletal ultrasound in pain medicine, organised by Department of Physical Medicine and Rehabilitation, AIIMS, Bibinagar, Telangana, India, from 25th August 2023, In the hands-on workshop he demonstration of Upper Limb Pain Blocks and Intra-Articular Steroid Injection and Hydro dilatation of shoulder joint for adhesive capsulitis.
5. Attended as resource faculty for ISA PG Impact program 2023, organised by ISA Andhra Pradesh state branch at Vishakhapatnam, Andhra Pradesh, India, from 01.04.2023 to 02.04.2023. In this program, he contributed as a external expert for the session on congenital heart diseases, anaesthesia management of cerebral abscess in a patient with tetralogy of fallot posted for craniotomy.

Dr. Rashmi Kundapur - Additional Professor, Community and Family Medicine

1. Conducted workshop on Systematic review in Udaipur Rajasthan as lead workshop conductor and conducted sessions on data extraction and critical appraisal of articles. Around 80 participants of Rajasthan state had attended the workshop at IAPSM state chapter Rajasthan, Udaipur on 2024-10-10
2. Conducted workshop on Qualitative research in Assam as lead faculty and trained various aspects of qualitative research to 50 participants at KMC Mangalore and National IAPSM, Mangalore on 2024-02-06
3. Conducted workshop on Effective communication in Public health which had major contribution on how communication helps in public health practice and research was introduced to participants at KMC Mangalore and National IAPSM, Mangalore on 2024-02-06



Dr. Lakshmi Jyothi Tadi - Additional Professor, Microbiology

1. 46th Annual Conference of Indian Association of Medical Microbiologists (MICROCON 2023) held at King George's Medical University, Lucknow between 23rd to 26th November 2023- Judge for poster presentation
2. Resource faculty as Executive Committee member conducted the PG Write-up Competition b. judged PG poster competition c. As lead trainer in Parasitology - Practical training workshop on OSPE at Kamineni Academy of Medical Sciences & Research Center, Hyderabad. Judged Free oral presentation
3. Resource faculty Advancing Medical Education in India: Aligning Emerging Trends with Innovative Teaching and Learning Strategies- held on 10th Sep 2024
4. One day PG workshop on One health held at King George's Medical University, Lucknow between 23rd to 26th November 2023

Dr. Annapurna Srirambhatla - Additional Professor, Radiodiagnosis

1. Participated as resource faculty on Multimodality Breast Imaging and interventions – CME & Workshop held by IRIA-TS-BISI- Osmania Medical College at Osmania Medical College on 2023-11-04
2. Participated as resource faculty on Multimodality Breast Imaging and interventions – CME & Workshop held by IRIA-TS - BISI - Gandhi Medical College at Gandhi Medical College on 2023-09-14

Dr. Ch Rama Krishna Prasad - Associate Professor, Anaesthesiology

Participated as a Resource Faculty in a workshop on ultrasound guided Nerve blocks at AIIMS JODHPUR RAJISACON 2024. Delivered a live demo lecture on Paravertebral Block, Erector spinae and MTS blocks. The workshop included hands-on training session of delegates on volunteers under our guidance. The hands-on session included demonstration of ultrasound guided nerve blocks of thorax, abdomen, lower limbs and upper limbs.



Dr. Sandeep - Associate Professor, Anaesthesiology

Participated as resource person in external training programs/Workshops held by National Airway Conference at AIIMS Mangalagiri on Sep 20th 2024. Dr. Sandeep was the resource personnel for hands on training to delegates on one lung ventilation. He was actively involved in training on the types, sizes of double lumen tubes(DLT). All the participants were made to perform lung isolation using both right and left sided double lumen tube and achieve reliable lung isolation. They were also trained to use a fiberoptic bronchoscope to confirm the position of the DLT and troubleshoot in case of any issue

Dr Deepak Kumar - Associate Professor, Orthopaedics

Dr Deepak Kumar was invited as faculty at AO Trauma Basic Course - Basic Principles of Fracture Management at Hyderabad from 1-3 March 2024. He also delivered lectures in AIIMS Mangalagiri on terrible triad treatment



Dr. Rekha Priyadarshini Associate Professor, Pharmacology

Participated as resource person for the Debate titled, 'Are we there yet, or it is just the beginning – implementation of pharmacogenomics in oncology clinical care' (For the motion) during the "Indo-Swiss Conference on Pharmacogenomics (ISSCP 2024) with a Special Focus on Cardiology & Oncology" held by Amrita School of Pharmacy and Amrita School of Nanosciences & Molecular Medicine, Amrita Vishwa Vidyapeetham, Kochi, Kerala, India, in collaboration with Clinical Pharmacology Division, University of Geneva, Switzerland; Department of Medical Oncology, JIPMER, Puducherry, India and CANSEARCH Research Platform in Paediatric Oncology & Haematology, University of Geneva, Switzerland on 2024-11-29



Dr. Deepankar Satapathy - Assistant Professor, Orthopaedics

Participated as resource faculty in FNS system demonstration at TOSACON-2024 held at Karimnagar

Dr. Syed Ifthekar - Assistant Professor, Orthopaedics

Invited as a resource Faculty for spine endoscopy in AIIMS Rishikesh for UAIOACON-2024 and also as a resource Faculty for spine endoscopy Endospine 2024- Faculty Ahmedabad



Dr. Arun Mitra - Assistant Professor, CM & FM

has served as a resource person and speaker in multiple national workshops, focusing on R programming, spatial epidemiology, and public health data science. He has conducted sessions for diverse audiences including statisticians, faculty, and researchers. Highlights include a specialized training for Indian Statistical Service probationers organized by MoSPI, a plenary talk during an AICTE-ATAL FDP, and contributions to the GISE Hub Summer School at IIT Bombay. He has also led hands-on workshops at AIIMS Mangalagiri, the Institute of Public Health, Bengaluru, and KGMU, Lucknow.

Resource Faculty in the following Workshops/Training Programmes:

1. ISS Training Programme, MoSPI, CR Rao Institute, Hyderabad
2. FDP on Machine Learning using R, AICTE-ATAL
3. GISE Hub Summer School, IIT Bombay
4. Health Data Analytics Workshop, AIIMS Mangalagiri
5. Health Data Science Workshop, IPH Bengaluru
6. Infectious Disease Modelling Workshop, KGMU, Lucknow



Dr. Alka Bhingardeo / Associate Professor, Anatomy

Invited as resource faculty for National Hands-on workshop on plastination at JNMC Maharashtra. Plastination is a technique or process used in anatomy to preserve bodies or body parts. The water and fat are replaced by certain plastics, yielding specimens that can be touched, do not smell or decay, and even retain most properties of the original sample. Hands on training was given to all participants on luminal casting and sheet plastination.



Dr. Anish Waghray - Senior Resident, Anaesthesiology

1. 1st Andhra Pradesh Pain Medicine and Regional Anesthesia Conference - He did workshops as faculty for regional anesthesia and chronic pain
2. Attended the 3rd Interventional Pain Management Course and Live/Video Demonstration Workshop on Low back & Knee Pain at Gandhi hospital as faculty. Delivered a lecture on knee pain . Demonstrated an intervention for a live audience
3. Attended the 6th Telangana Anaesthesia & Pain Workshop at KIMS hospital as faculty and conducted a workshop on regional anesthesia and chronic pain . I also performed a live demonstration of a chronic pain intervention for the delegates.
4. Physical medicine and Rehabilitation department organised a workshop on MSK ultrasound in Pain Medicine . I demonstrated how to evaluate shoulder joint pathologies and performed an intervention on a patient for LIVE audience



Dr. A Serma Subathra – Associate Professor, College of Nursing

1. Invited as a Guest faculty for the Continuing Nursing Education organised by ESIC, Medical College & Super Speciality Hospital on 14 April 2024. The Topic on “Surgical Safety the essence of role & Responsibilities of Nurses”.
2. Invited as a Guest speaker for the “Continuing Nursing Education” organised by ESIC, Medical College & Super Speciality Hospital on 29 Nov 2024. The lecture deliver on the Topic “Nursing Synergy: Navigating Evolving Trends & Challenges in Clinical, academic and Research practices.



Mrs. Era Deepika Dayal – Tutor, College of Nursing

1. Resource Faculty for Neonatal Quality Improvement in Practice (NEOQUIP) training organised by National Neonatology Forum of India and AIIMS Gorakhpur from 10th August to 25th August.
2. Resource Faculty for Online Webinar on ‘Management of High Risk Newborn in NICU’ organised By Charusat University, Gujarat



Mrs. Lakshasarah – Tutor, College of Nursing

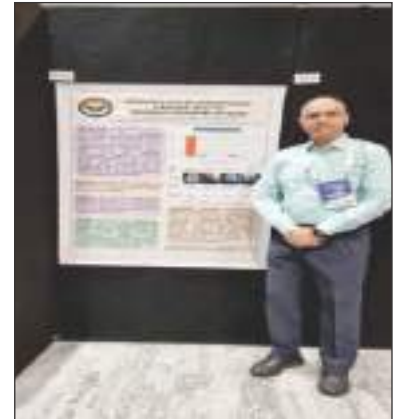
Panelist for the State Conference for Trained Nurses Association of India ,Telangana Chapter, Hyderabad.



Presentations in International Conferences

Dr Maheshwar Lakkireddy - Professor and HOD, Orthopaedics

Presented a poster in Asia Pacific Federation for Clinical Biochemistry and Laboratory Medicine Congress (APFCB 204). He also Presented "Vitamin D in Mechanical Low Back Ache" in an International Webinar attended by 157 Orthopaedic Surgeons from African Countries like Kenya Zimbabwe & many others from other countries on 9 th June 2023.



Dr. Pragnesh Parmar Additional Professor and HOD, Forensic Medicine and Toxicology

Presented oral paper titled Effectiveness of App based learning in Forensic Medicine – Perceptions of Students' in IALM 2024 - 26th Congress of International Academy of Legal Medicine at Athens, Greece from 21-23 May, 2024. IALM is the reputed organization in the field of Forensics since 1938



Dr. Lakshmi Jyothi Tadi Additional Professor, Microbiology

1. Presented One Health Paradigm for Surveillance of Climate-Sensitive Vector-Borne Diseases in Yadadri Bhuvanagiri District, Telangana, India held at 26th Annual Conference of the European Society for Clinical Virology (ESCV 2024), Frankfurt-Germany on 2024-09-18. This cross-sectional study conducted at AIIMS Bibinagar aimed to assess the impact of climate change on vector-borne diseases (VBDs) in Yadadri Bhuvanagiri District. The study focused on sero-surveillance of climate-sensitive VBDs, evaluating vector distribution in rodents, animals, and the environment, and analysing changes in vector populations based on climate indicators. It underscores the importance of community engagement and intersectoral collaboration in mitigating risks, building community resilience, and strengthening public health systems. The study's outcomes provide valuable insights for policymakers and health planners to predict, prevent, and control climate-sensitive VBD outbreaks effectively. Early phase findings were presented.
2. Presented Magnitude and Determinants of Zoonotic Enteric Diseases in Under-Five Children of Rural Telangana held at 26th Annual Conference of the European Society for Clinical Virology

(ESCV 2024), Frankfurt-Germany on 2024-09-18. This study investigates the asymptomatic carriage of zoonotic enteric pathogens and their association with domestic animal exposure in rural Telangana. Using a retrospective cohort design, 692 stool samples were collected from 122 rural children, 122 urban controls, and 448 domestic animals. Findings showed significant associations between children's diarrheal illness and household factors such as proximity to animal shelters, poor sanitation, and inadequate water hygiene practices. Among the children infected with Rotavirus, 50% had domestic animals carrying the same pathogen. Similarly, 27% of Adenovirus-positive children shared identical pathogens with household animals.. This research underscores the utility of the One Health approach in addressing zoonotic diseases, calling for improved WASH (Water, Sanitation, and Hygiene) practices and education to mitigate health risks and enhance child well-being.

3. Presented poster in 2024 ASM Clinical Virology Symposium in Long Beach, Calif. October 7-10, 2024

Dr. Gunvanti Rathod - Additional Professor, Pathology

1. The Asia-Pacific Federation for Clinical Biochemistry and Laboratory Medicine (APFCB) and the Australasian Association for Clinical Biochemistry and Laboratory Medicine (AACB) organized "Asia-Pacific Federation for Clinical Biochemistry and Laboratory Medicine (APFCB) Congress 2024" which was held at the International Convention Centre Sydney, Australia from 31st October to 3rd November 2024. The AACB is the principal professional association dedicated to the advancement of Clinical Biochemistry and Laboratory Medicine in Australasia. She presented poster titled "Evaluation of utility and efficacy of Fine Needle Aspiration Cytology (FNAC) for thyroid lesions through correlation of the findings of FNAC with Histopathology: A retrospective tertiary care centre experience'. It was excellent opportunity to represent AIIMS Bibinagar at International platform.
2. 7th Bangladesh Academy of Pathology Convention and First International Pathcon 2024 was held at Dhaka, Bangladesh from 26th April to 27th April 2024. Various consultants across the globe participated and exchanged their views and innovations. She delivered a talk on 'Breast pathology - A potpourri of rare cases' on second day of conference which was well appraised by all delegates.



Dr. A Serma Subathra**- Associate Professor, College of Nursing**

1. Invited for presentation on the project project on " Effect of Multi Disciplinary Peri –operative Holistic Care (MPHOC) Parameters among Surgical Clients at Tertiary care centres- The Quality Improvement at "American College of Surgeons" A Quality and Safety Conference held from 18-21 July Colorado , USA

**Dr Madhuri Taranikanti,****Additional Professor, Physiology**

Presented "Gamification, reasoning, application and situated learning approach in Physiology - GRASP the concepts" at Long Beach, California, USA in American Physiology Summit 2023 - APS 2023 Organised by American Physiological Society held from 20th – 23rd April, 2023.

Situated learning approach using near real life situations is an effective learning strategy and can be a useful formative assessment tool. Multifaceted gaming modules enabled actual visualization and critical thinking rather than mere imagination. Team based performance helped exchange of thoughts for higher order thinking and projected significance of teamwork in healthcare setup.

Dr. Parag Parshuram Patil**- Associate Professor, Pathology**

Presented intra-mural study at the "Annual Sickle Cell And Thalassemia" conference organized by the European Hematology Association & The British Society of Hematology and held at the Westminster Hall, London, UK on 25th October, 2023. We evaluated patients residing in tribal settlements around Bommalaramaram. 480 individuals were screened, 26.87% were found anemic, 6.45% had thalassemia trait (HbA2 levels >3.5%). Mentzer's Index was lesser than 13 in 7% individuals' of which 47.05% tested positive for thalassemia trait (n=16). Sickle cell trait was observed in 4 individuals and one case of HbE disease was identified. In conclusion, tribal population has a high prevalence of thalassemia trait; however, owing to lack of accessible and affordable medical infrastructure, most of the cases go undiagnosed.



Dr. Vidya G Associate Professor, Physiology

Presented her intramural funded research project titled "serum levels of nitric oxide metabolites in relation to body mass index and arterial stiffness in young individuals" as poster at the international physiology conference at The physiological society, Newcastle-upon-tyne, UK on 2024-07-02.



Dr. Madhu Latha Karra Associate Professor, Biochemistry

Presented at ICC Sydney, Australia held by 17th Asia-Pacific Federation for Clinical Biochemistry and Laboratory Medicine Congress (APFCB 2024) on Nov 2, 2024 Early newborn screening for sickle hemoglobin (HbS) is vital to reduce morbidity and mortality among children. While compulsory in many countries, only a few Indian states mandate newborn screening for HbS. A hospital-based cross-sectional study screened 751 newborns for sickle cell disease (SCD) and validated dried blood spot (DBS) samples against conventional venous blood samples (CBS) using the HPLC method. Out of 751, 2.93% had Sickle cell trait. Hb variant analysis showed excellent agreement between DBS and CBS, with 100% sensitivity and specificity. DBS was comparable to CBS with minimal systemic or proportional bias and strong agreement. These findings support the use of DBS for universal neonatal screening.



Dr Deepankar Satapathy - Assistant Professor, Orthopaedics

Presented a poster at SICOT conference, Egypt in 2024

Dr. Syed Ifthekar Assistant Professor, Orthopaedics

Presented a paper and poster at SICOT conference 2023 held in Egypt

Dr. Arun Mitra, Assistant Professor, Dept of CM & FM:

Presented a Poster held by 16th World Stroke Congress, 2024 at Abu Dhabi (Virtual) with the title : "Access to Stroke Facilities In Kerala: A Spatial Analysis At The Sub-District Level" conducted from 23-26th October, 2024 The study analyzes the accessibility of stroke treatment facilities across Kerala, employing advanced spatial analysis techniques to examine centers equipped for intravenous thrombolysis (IVT) and endovascular thrombectomy (EVT). The study reveals that Kerala has 53 IVT-capable centers, with 30 offering EVT services. While 62.7% of Kerala's population can access IVT centers within an hour, only 43.8% have similar access to EVT facilities. Though these figures exceed national averages, significant regional disparities exist, particularly in eastern Kerala.

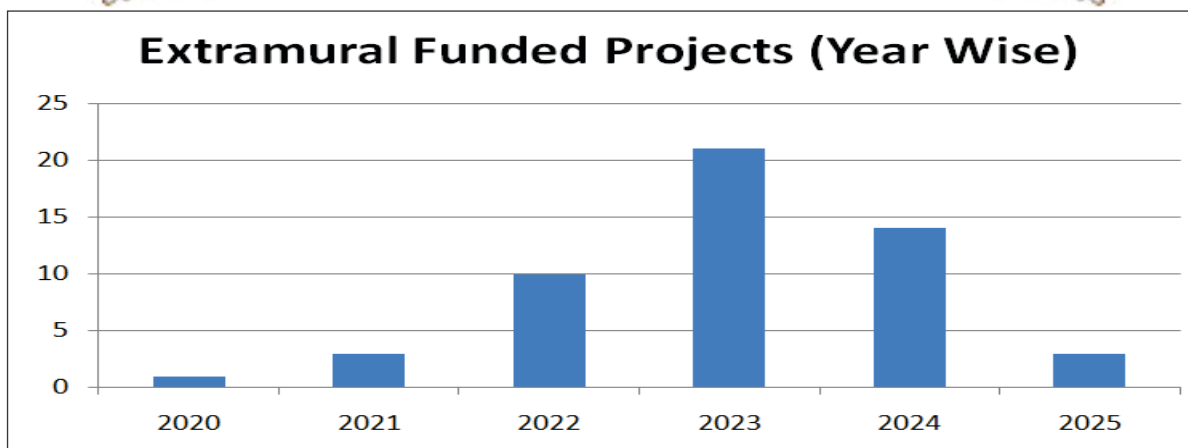


MOU's/Collaborations with other National and Regional Institutes



S.No	Year	Institute Name	Projects/Programs
1.	2021	ICMR-National Institute of Malaria Research, NewDelhi	Infection Disease Research & Training Related Activities Especially Malaria.
2.	2021	ICAR-Indian Veterinary Research Institute	One Health–Program
3.	2021	National Institute of Pharmaceutical Education and Research, Guwahati	Phd student working at AIIMS Bibinagar
4.	2021	Indian Institute of Public Health Gandhi nagar	Collaborative research and teaching activities
5.	2021	Kalam Institute of Technology	Health technology and related research
6.	2021	CDFD	Academic program in genetics and collaborative Project on genotoxicity in Rats of with the use of sugar free powders
7.	2022	NIMS,Hyderabad	Collaborative projects with department of orthopedics, forensic medicine and pharmacology
8.	2021	National Forensic Science University	Workshop on Virtual Autopsy with handson experience of virtual dissection table Medicolegal Symposium on Clinico Histopathological techniques in Forensics
9.	2023	OsmaniaUniversity	Institute of Genetics and Hospital for Genetic Diseases
10.	2022	CSIR-CCMB,Hyderabad	Setting up pathogen surveillance system for environmental microbiological surveillance and AMR gens beyond SARS-CoV-2 in collaboration with CCMB Hyderabad
11.	2023	FDDI-Foot Wear Design and Development Institute, Hyderabad(In Process)	To develop prosthesis for the foot in the deformities
12.	2021	ICMR-NIN,Hyderabad	Undergraduate collaborative teaching learning and research activities
13.	2024	NIT, Warangal	Joint research and academic activities in various fields of interest.
14.	2021	ICMR-CCRAS	Drakshavaleha- Punavadi mandura vs JFA in iron deficiency anemia.
15.	2023	NIMHANS,Bengaluru	National mental health survey2
16.	2024	ICMR- Vector control Research Center Puducherry & Aarupadai Veedu Medical college & Hospital Puducherry	Promote cooperation in the field of Health Sciences in various aspects of Medicine
17.	2021	Pennsylvania State University	Promote cooperation in the field of infectious diseases like tuberculosis and zoonotic diseases
18.	2024	IIT Hyderabad	To explore possibilities of joint research programs in interdisciplinary areas of specialization
19.	2024	PRAI- Parkinson Research Alliance of India, Hyderabad	Multiple system atrophy – India (MSA-Ind) registry

EXTRAMURAL FUNDED PROJECTS (2023-25)

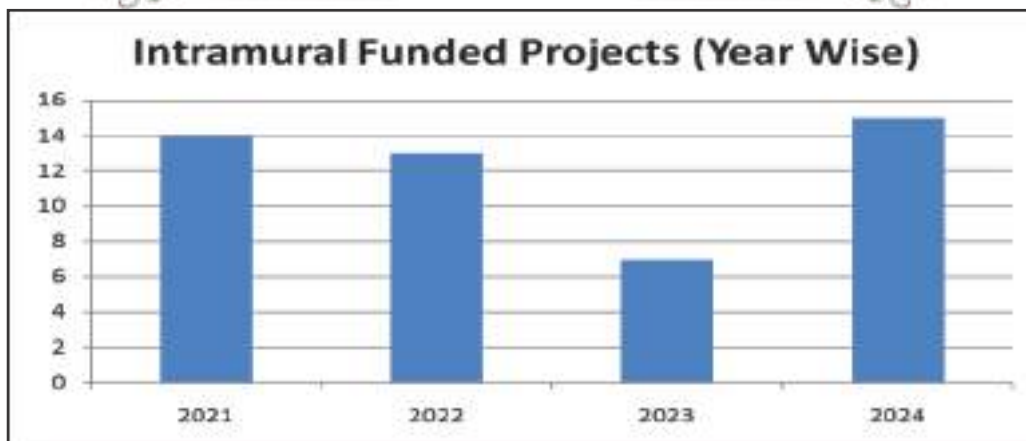


NEW EXTRAMURAL FUNDED PROJECTS (2023-25)

S.No	File No	Project Title	PI	Date of sanction	Agency	Total budget
1	AIIMS /BBN/EM-F/2024/04	Implementation research on post tuberculosis care in primary settings: Assessment and management of risk factors, co-morbidities and lung disability (IR-PTC)	Dr. Gomathi. R	12-02-2024	ICMR	71,68,637
2	AIIMS /BBN/EM-F/2024/05	Development and validation of prediction of prediction equations for respiratory impedance by forced oscillation technique in a Indian population- multicentric cross-sectional study	Dr.Nitin Ashok John	10-06-2024	ICMR	43,09,061
3	AIIMS /BBN/EM-F/2024/06	Cue reactivity and attention in alcohol addiction : A relapse tracker	Dr.Kalpana. M	28-01-2024	ICMR	46,92,275
4	AIIMS/BBN/EM-F/2024/09	Ultrasound Triggered Active Drug Delivery (Uadd) System for Triple Negative Breast Cancer Therapy	Dr.Annapurna Srirambhatla	16-04-2024	ICMR	12,84,648
5	AIIMS /BBN/EM-F/2024/16	Development of a Loop-Medical Isothermal Amplification (LAMP) assay for on-site diagnosis of Trichomonas vaginalis, chlamydia trachomatis and Neisseria gonorrhoeae from patients attending STI clinic	Dr. Rudresh SM	02-08-2024	ICMR	16,62,522
6	AIIMS/BBN/EM-F/2023/22	Assessment of unmet and access to assistive technologies among the general population through digital rATA tool- Across-sectional survey in India	Dr.Meely Panda	26-09-2023	ICMR	41,96,899
7	AIIMS/BBN/EM-F/2024/24	Building a surveillance model for detecting Zoonotic spill over in increased animal-human interaction setting using a one health approach: A study at selected slaughter houses.	Dr.Rahul Narang	16-02-2024	ICMR	71,56,412
8	AIIMS/BBN/EM-F/2024S/25	Pan India surveillance for respiratory viruses through DHR-ICMR VRDL Network	Dr.Rahul Narang	15-04-2024	ICMR-DHR-VRDL	7,23,667
9	AIIMS/BBN/EM-F/2023/26	A prospective study to explore the risk of diabetes in patients on long term proton pump inhibitors	Dr.MadhaviEerike	24-07-2023	DHR	45,42,630
10	AIIMS /BBN/EM-F/2023/29	Mobile application- based tracking and its role in improving compliance to Primaquine radical therapy and follow up of P.vivax malaria cases in highly endemic districts of Telangana	Dr.NikhataShareen	03-10-2023	ICMR	13,33,348
11	AIIMS /BBN/EM-F/2023/30	Assessment of diagnostic performance of ingeniously developed sample collection and concentration device (K-8 spider) for diagnosing childhood TB with reference to conventional technique of gastric aspiration and sputum collection	Dr.Rahul Narang	21-09-2023	ICMR	14,21,674

12	AIIMS /BBN/EM-F/2023/31	Mapping the spectrum of sexually transmitted infections (STIs) and reproductive tract infections (RTIs) among the selected high-risk groups (HRGs)-A multicentric study	Dr.BhushanKamble	31-10-2023	ICMR-STI	67,57,317
13	AIIMS /BBN/EM-F/2023/32	Mapping the health seeking pathway and sexuality problems among the migrants of metropolitan region”	Dr.RashmiKundapur	23-10-2023	ICMR-STI	30,50,148
14	AIIMS /BBN/EM-F/2023/33	Salivary exosomes: a non-invasive approach for the early detection of poor oral hygiene triggered pre-malignant oral lesions”	Dr.Patil Parag Parshuram	11-12-2023	ICMR	57,35,042
15	AIIMS /BBN/EM-F/2023/34	Prevalence of sexually transmitted infections, their associated risk factors, and treatment seeking behavior among tribal population in India-A multicentric study	Dr. Raja. S	05-02-2024	ICMR	38,47,401
16	AIIMS /BBN/EM-F/2024/35	Sankalp -Strengthening Program Implementation and Monitoring to Achieve Single-digit Neonatal Mortality – An Implementation Research	Dr. S Thanigainathan	12-01-2024	BMGF	6,24,16,341
17	AIIMS /BBN/EM-F/2024/36	Efficacy of animal source food on macro and micro nutritional status of adolescent girls on residential schools of Telangana-Anon-randomized control trial (EASNAR study)”.	Dr.Gomathi. R	10-01-2024	ICMR-NMRI	23,07,910
18	AIIMS /BBN/EM-F/2024/37	National Mental Health Survey 2 Mental Health Systems Assessment	Dr.Vaman Kulkarni	17-08-2023	NMHS	75,00,000
19	AIIMS /BBN/EM-F/2024/38	Hands on workshop on systematic reviews and meta-analysis under DHR-SARANSH grant for Telangana and Andhra Pradesh	Dr.Sai Krishna Tikka,	23-07-2024	ICMR	6,00,000
20	AIIMS /BBN/EM-F/2024/39	Development and Feasibility testing of Bereavement care package for Indian Healthcare system to support parents of Stillborn babies	Dr.MadhuriTarantikanti	19-09-2024	ICMR	75,19,569
21	AIIMS /BBN/EM-F/2024/40	Pharmacogenetics of Gliptins in South Indian Diabetes Population: Assessing the Interindividual Variability in Glycemic Response	Dr. Gerard Marshall Raj,	03-09-2024	SERB	26,06,820
22	AIIMS /BBN/EM-F/2025/41	Evidence based antibiotic for different clinical conditions in India: Conducting systematic reviews a/meta-analysis	Dr.Syed Ifthekar	23-12-2024	ICMR	5,13,500
23	AIIMS /BBN/EM-F/2025/42	Artificial intelligence based tool for detection of Breast and Oral Cancer”	Dr. Abhimanyu sharma	08-02-2025	ICMR	Rs.3,64,000
24	AIIMS /BBN/EM-F/2025/43	Role of nerve growth factor and its receptors in spontaneous early pregnancy loss: An immunohistochemistry-based analytical study on products of conception	Dr. Seetu Palo	09-01-2025	CSIR	Rs.2,69,583
25	AIIMS /BBN/EM-F/2025/44	Assessment of individual and health systems factors for cardiovascular disease risk reduction at diverse regions and facilities in India – Across sectional study	Dr.Vishakha Jain	24-01-2025	ICMR	Rs.30,000

INTRAMURAL FUNDED PROJECTS



NEW INTRAMURAL FUNDED PROJECTS (2024)

S.NO	Name of the principal Investigator	Project number	Total budget sanctioned
1	Dr.Madhusudhan S Associate Professor Dept of Paediatric	AIIMS/BBN/Research/IM-F/2024/02	Rs.4,82,521/-
2	Dr. Namit Kant Singh Associate Professor Dept of ENT	AIIMS/BBN/Research/IM-F/2024/26	Rs.5,00,000/-
3	Dr. Kishore Yadav Jothula Assistant Professor Dept of CM&FM	AIIMS/BBN/Research/IMF/2024/27	Rs. 3,04,500/-
4	Dr. Maley Deepak Kumar Assistant Professor Dept of Orthopaedic	AIIMS/BBN/Research/IM-F/2024/38	Rs.2,43,257.15/-
5	Dr. Pranitha.V Assistant Professor Dept of Dentistry	AIIMS/BBN/Research/IM-F/2024/39	Rs.4,99,927/-
6	Dr. Geetha. S.G Assistant Professor Dept of Anatomy	AIIMS/BBN/Research/IM-F/2024/40	Rs.4,33,500/-
7	Dr.Sandeep Dhole Associate Professor Dept of PMR	AIIMS/BBN/Research/IM-F/2024/41	Rs.2,46,400/-
8	Dr.Tushar Mohanlal Parmeshwar Assistant Professor Dept of General Surgery	AIIMS/BBN/Research/IM-F/2024/42	Rs.4,90,400/-
9	Dr. A. Nyna Sindhu Assistant Professor Dept of General Surgery	AIIMS/BBN/Research/IM-F/2024/43	Rs.3,54,650/-
10	Dr.Vijay Assistant Professor Dept of Dentistry	AIIMS/BBN/Research/IM-F/2024/44	Rs.4,85,250/-
11	Dr. T. Ashok Vardhan Reddy Assistant Professor Dept of Neurology	AIIMS/BBN/Research/IM-F/2024/45	Rs.3,88,960/-
12	Dr.Deepthi Konda Assistant Professor Dept of Dermatology	AIIMS/BBN/Research/IM-F/2024/46	Rs.4,99,500/-
13	Dr. J. Aparna Assistant Professor Dept of OBGY	AIIMS/BBN/Research/IM-F/2024/47	Rs.3,41,250/-
14	Dr. Vermui Mahesh Babu Assistant Professor, Dept of Pulmonary Medicine	AIIMS/BBN/Research/IM-F/2024/48	Rs.5,00,000/-
15	Dr.Govindrao N. Kusneniwar Associate professor, Dept. of CMFM,	AIIMS/BBN/Research/IM-F/2024/49	Rs. 4,98,259/-

POSTGRADUATE ICMR FUNDED PROJECTS (2023-24)

Sl. No	Student Name	Guide	Department	Title	Sanctioned Date
1	Dr.Arjun Banerjee	Dr. Rahul Narang	Microbiology	Community based cross sectional study on the role of Zoonotic enteric virus at etiological agents of acute diarrhea in under-five children	01/12/2023
2	Dr.Rajesh Kanna K	Dr. Lakshmi Jyothi T	Microbiology	Burden of Zoonotic enteric bacterial pathogens among children less than five years with diarrhea in rural community of Telangana.	01/12/2023
3	Dr.Akhila AL	Dr. MaheswarkarLakkireddy	Orthopaedics	Efficacy and safety of platelet rich plasma versus growth factor concentrate in plantar fasciitis.	27/12/2024
4	Dr.Akash Kumar Kannouji	Dr. Y RAnjith Kumar	Orthopaedics	Efficacy and safety of platelet rich plasma versus growth factor concentrate in treatment of lateral epicondylitis: A randomized trial.	27/12/2024
5	Dr.Samala Mounika	Dr. Sangeetha Sampath	Biochemistry	Association of leptin (LEP) GENE AND LEPTIN RECEPTOR (lep) gene single nucleotide polymorphisms (SNPs) in Type 2 Diabetes Mellitus (T2DM) : A case control study	27/08/2024
6	Dr.Sreelakhmi Mohan	Dr. Aparna Varma B	Biochemistry	Prevalence of FUT2 (Fucosyl Transferase 2) and FUT6(Fucosyl Transferase 6) Gene Single nucleotide polymorphisms (SNPs) and its correlation with vitamin B12 levels in Indian children	13/12/2024
7	Dr.Madhavan.V	Dr. Annapurna S	Radiodiagnosis	Multiparametric ultrasound evaluation of diffuse thyroid diseases (DTD).	27/12/2024
8	Dr.DivyaGurram	Dr. Annapurna S	Radiodiagnosis	Diagnosis performance of the O-RADS MRI scoring system in the evaluation of ovarian masses	27/12/2024
9	Dr Pooja Rathod	Dr. Naina Kumar	OBGY	Clinical Audit of hysterectomies : A Valuable tool to improve Quality care at Rural tertiary care centre of Southern India	13/12/2024
10	Dr BukkeNireesha	Dr. Meeshu Mangla	OBGY	A Randomized controlled trial to compare the foeto-maternal outcomes After physiological cord clamping vs delayed cord clamping at one minute in women undergoing elective caesarean section at term	13/12/2024



UNDERGRADUATE ICMR - STS FUNDED PROJECTS (2023-24)



Sl. No	Student Name	Guide Name	Department	Title	Sanctioned Date (ICMR)
1	K.VedaVasishtha Reddy	Dr.Vandana S. Daulatabad	Physiology	Invigorating cognitive function: Exploring the efficacy of Yoga Nidra as a guided meditation intervention for mitigating sleep deprivation among night shift healthcare workers	17/01/2025
2	Aafreen Kerosenewala	Dr.Vandana S. Daulatabad	Physiology	Hatha Yoga: An ancient approach for management of various components of metabolic syndrome in sedentary working women in an urban setting	17/01/2025
3	V.Jaswanth Sai	Dr. Naina Kumar	OBGY	Navigating menopausal symptoms: Rural women's experiences and their husbands perceptions –A hospital based observational study	17/01/2025
4	Srikeerthika.G	Dr. V.Mounika Reddy	Pediatrics	Social determinants of health, parental health literacy and outcomes in children admitted to a paediatric intensive care unit in a resource-limited setting	17/01/2025
5	Fathima Hamda TK	Dr. Ashutosh Rath	Pathology	Characterization and clinical correlation of invasion patterns in oral squamous cell carcinoma: A comparative study of preoperative biopsies and postoperative resection specimens	17/01/2025
6	A. Nihaal Reddy	Dr. Sai Krishna Tikka	Psychiatry	Sale of tobacco products in the vicinity of schools and student smoking incident reports: A survey from Yadadri –Bhuvanagiri district	17/01/2025
7	M. Sameer Chowdary	Dr.NamitKanth Singh	ENT	Correlation of Clinical, Radiological and Microbiological profiles in chronic rhinosinusitis patients at a tertiary care center in Telangana	17/01/2025
8	Durga vara Prasad.Ranga	Dr. Rekha Priyadarshini	Pharmacology	Evaluation of cognition function in patients with type-2 diabetes mellitus receiving insulin in comparison to age-matched patients receiving oral anti-diabetes agents: a cross – sectional comparative study	17/01/2025
9	G. Ramanjaneya Reddy	Dr. Madhavi Eerike	Pharmacology	Iron gummies vs iron tablets: Evaluating haemoglobin enhancement and compliance in anemic patients –A prospective observational study	17/01/2025
10	Neha Gupta	Dr. Nabnita Patnaik	OBGY	A quazi experimental trial of nutriAide application to enhance nutritional interventions for anemic pregnant women in comparison to traditional methods	17/01/2025
11	Anshuman Pradhan	Dr. S. Thanigainathan	Neonatology	To study the postnatal weight loss pattern, its clinical implication and risk factor for excessive weight loss in neonates >_34 weeks of gestational age in a tertiary care centre-A prospective observational study	17/01/2025

UNDERGRADUATE INTRAMURAL FUNDED PROJECTS (2023-24)

S. No	File Number	Project Title	Name of the Student	Name of the Guide	MBBS Batch
1.	AIIMS/BBN/Res/IM-F/2024-2025/S-08	Prevalence and Prediction through Screening for Common Mental health disorders (CMDs) in routine obstetric care at a Tertiary care Hospital in rural Telangana.	Mr. Abdul Wahid Ansari	Dr. Anusha Devella	2022 -Batch
2.	AIIMS/BBN/Res/IM-F/2024-2025/S-09	Assessment of Frailty and its associated factors in elderly Population at Tertiary Healthcare Hospital in Rural Telangana	Ms. Shaikh Yasmin Bilal	Dr. Vaman Kulkarni	2021-Batch

UNDERGRADUATE INTRAMURAL NON-FUNDED PROJECTS (2023-24)

S.No	Topic	Student Name	Batch	Guide	Department
1	Analysis of nutrient product profile of millet-based foods for children available in the market and utilization of millet based-food among children -a cross-sectional study	Ms. Ilene Maria Shaji	2020 Batch	Dr. Gomathi R	CM & FM
2	A study to evaluate the efficacy and practicality of performing osmotic fragility test on microtiter plate over the conventional method.	Ms. D.S.L Vidya Vahitha	2022 Batch	Dr Parag Patil,	Pathology
3	Assessing Cybercrime Prevalence, Impact and Awareness in a Medical College: A Cross Sectional Survey	Mr. Aman Shaikh	2021 Batch	Dr. Yadhukul S	FMT
4	Clinical predictors of benzodiazepine dose for detoxification in alcohol dependent syndrome – A retrospective observational study	Mr. Anshuman Pradhan	2021 Batch	Dr. Debasis Bisoi	Pharmacology
5	Knowledge attitude and Practices regarding Nutrition in Type 2 Diabetes Mellitus	Ms. A Veera Manasa Devi	2021 Batch	Dr. Archana Gaur	Physiology

Publications (2023-2024)

1. Kasha S, Yalamanchili RK, Rohit GPRK et al. Medialization of shaft of humerus to provide medial buttress and prevent varus collapse in 3- and 4-part proximal humerus fractures: review of the surgical technique. *JSES Reviews, Reports & Techniques*, 5(1), 22 – 29. DOI:10.1016/j.xrrt.2024.10.002.
2. Reddy DV, Satapathy D, Raja BS, Maley DK, Ahuja K, Yalamanchili RK, Lakkireddy M, Ifthekar S. A comparison of clinical and radiological outcomes following laminectomy and laminectomy with fusion in patients of cervical spondylotic myelopathy: A systematic review and meta-analysis. *Neurosurgical Review*. 2024 Dec; 47(1):1-2.
3. Kumar P, Chaudhary N, Kokane AM, Zaman F, Kamble B, Yadav K, Kalidoss VK, Kusneniwar GN et al. Designing a summative assessment blueprint in community medicine: an expert consensus approach at All India Institute of Medical Sciences. *BMC Med Educ*. 2024 Dec 27; 24(1):1539. DOI: 10.1186/s12909-024-06365-3. PMID: 39731076; PMCID: PMC11673342.
4. Bhatia V, Panda M. Indian Health Budget 2023 Allocation: Navigating the Framework and Dynamics of Policy Implementation. *IJEF*, 4(2), pp. 73–79, Nov. 2024, doi: 10.54105/ijef.B2583.04021124.
5. Cheruvu V, Khan M M, Devalla A V (December 23, 2024) Development of the AIIMS Bhopal Pre-sternal Keloid Scale (ABPSKS): A Tool for Assessing Severity and Comparing Treatment Outcomes. *Cureus* 16(12):e76255. DOI 10.7759/cureus.76255
6. Choudhary M C, Mohanasundari S.k, Ara M. Breast self-examination: knowledge, awareness, and practices among females of reproductive age group. *Int J Res Med Sci*. 2024; 12(6):1999-2003. DOI: <https://dx.doi.org/10.18203/2320-6012.ijrms20241548>
7. Mrs. Rashmi Singh , Mohanasundari S.k, Mr. Suraj Kumar Meena , Mrs. Rani B , Mrs. Neelam Vashishtha , Mrs. Pratheebea Sathianathan , Mrs. Preethi Sathianathan Effective Approaches to Addressing Challenges in Exclusive Breastfeeding Volume 6, Issue 3, May-June 2024 IJFMR240320844
8. Mohanasundari S.k, Thanigainathan S, Gadapalli R, et al. Exploratory study to assess the functional capacity, safety and ability to isolate novel COVID-19 of a novel self-administrative nasopharyngeal wash specimen collecting device. *BMJ Innovations* Published Online First: 10 January 2024. DOI: 10.1136/bmjinnov-2023-001122.
9. Mohanasundari S.k Thanigainathan S, Padmaja A. Comparison of music medicine intervention and visual imagery techniques and conventional treatment alone on preoperative anxiety among children undergoing surgery - A Randomized Control Trial. *Complement Ther Clin Pract*. 2023 Sep 11;53:101799. DOI: 10.1016/j.ctcp.2023.101799. Epub ahead of print. PMID: 37757544.
10. Mohanasundari S.k Pratheebea S., Preethi S., Vasanth Kumar Kasturi, Maggie P, Guru P., Era D D. Key disparities between quantitative and qualitative research methodologies. *IJARIT*. 2024; 10(1): 10(1): 347-353. Doi: www.IJARIT.com.
11. Joseph J, Varkey BP, Varghese A, Mathews E, Dhandapani M, Sharma SK, et al. Age, gender, and regional variations in stroke epidemiology in India: A systematic review and meta analysis. *Indian J Community Fam Med* 2024;10:7-17. DOI: 10.4103/ijcfm.ijcfm_22_23
12. Sathianathan P, Sathianathan P, Mohanasundari SK, P SJ, R M L, Singh R, et al. Birth Companions during Childbirth-Indian and International Perspectives. *International*

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13. Joseph J, Khakha DC. Alcohol abstinence, adherence, and attitudes toward disulfiram treatment for alcohol dependence among patients attending a tertiary care setting in North India. *Addict Health*. 2024;16(3):152–158. doi:10.34172/ahj.1537
 14. Mangla M, Kumar N. Recurrence Risks in Congenital Anomalies: A Comprehensive Guide for Parental Counseling. *Neoreviews*. 2024 Dec 1;25(12):e793-e803. doi: 10.1542/neo.25-12-e793. PMID:39616141.
 15. Devalla A. Contraception in perimenopause: a review of fecundity, fertility, and feasibility of contraceptives. *Int J Reprod Contracept Obstet Gynecol* 2024; 13:3777-84. <https://dx.doi.org/10.18203/2320-1770.ijrcog20243626>
 16. Sivakoti S, Prabhala S. The New World of Hospitals. *Scholastic Medical Sciences* 2.8 (2024): 01-05.
 17. Garre, Sandeep DM, Ayya, Syama Sundar DM, Ammanabrolu, Bhargav Ram MD, CH, Rama Krishna Prasad MD, Sangineni, Kalyani Surya Dhana Lakshmi MD. Atypical Distribution of Upper Thoracic Epidural Local Anesthetic: Case Report. *A & A Practice* 18(11): p e01874, November 2024. | DOI: 10.1213/XAA.0000000000001874
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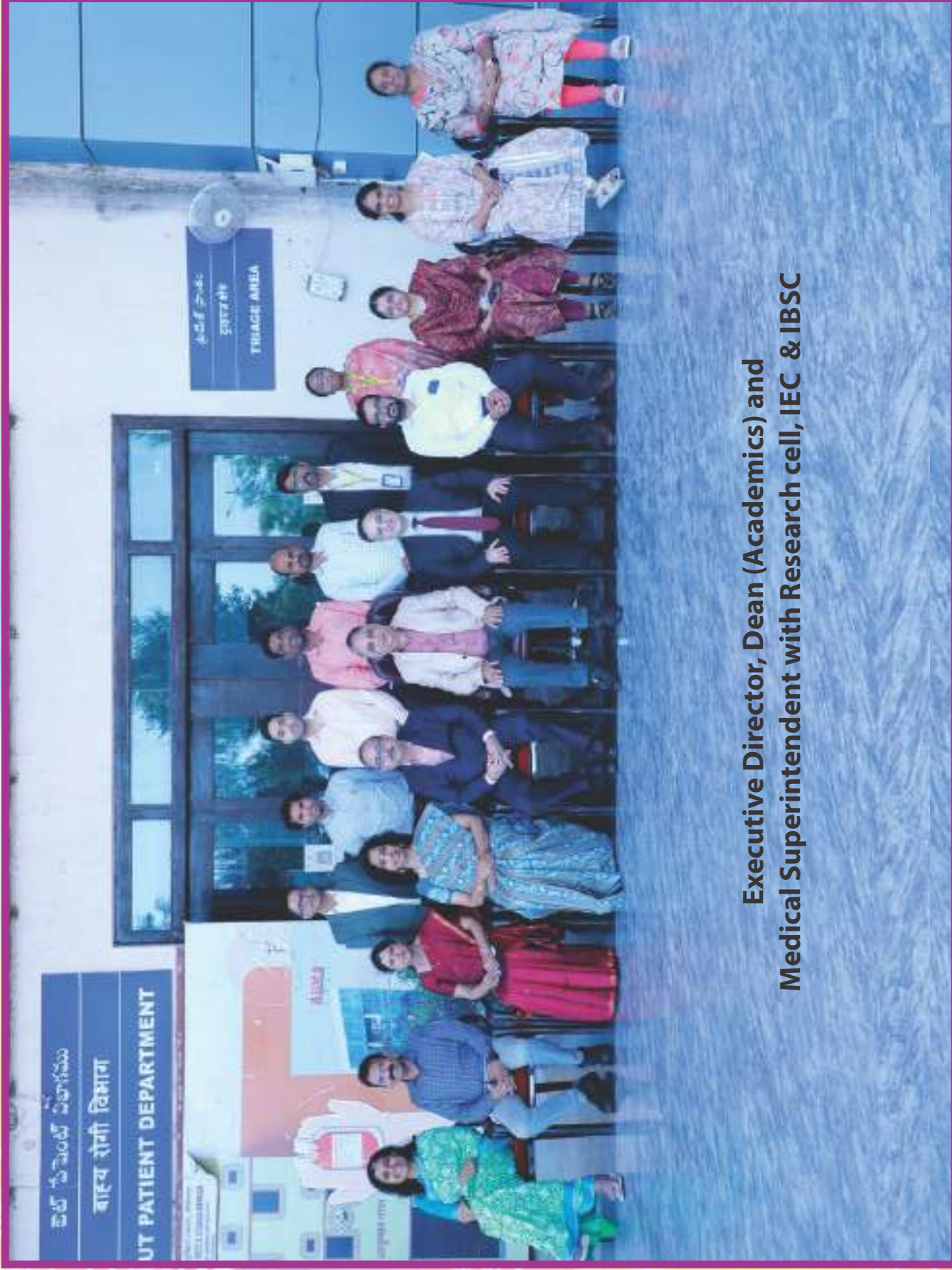
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