



ICMHSI 2026



International Conference on
Multidisciplinary Health Sciences and
Innovations

 **14th August, 2026**

 **Beijing, China**

Virtual (Live
on Zoom)

Organized by



IFERP Life Science—Formerly Bioleagues



International Conference on Multidisciplinary Health Sciences and Innovations (ICMHSI-2026)
Beijing, China

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Conference Theme

Beyond Boundaries: Collaborative Research for a Smarter and Sustainable World

Preface

We cordially invite you to attend the International Conference on Multidisciplinary Health Sciences and Innovations (ICMHSI-2026) on 14th August, 2026. The main objective of ICMHSI-2026 is to provide a platform for researchers, students, academicians as well as industrial professionals from all over the world to present their research results and development activities in relevant fields of Health Sciences and Innovations. This conference will provide opportunities for the delegates to exchange new ideas and experience face to face, to establish business or research relationship and to find global partners for future collaboration.

These proceedings collect the up-to-date, comprehensive and worldwide state-of-art knowledge on cutting edge development of academia as well as industries. All accepted papers were subjected to strict peer-reviewing by a panel of expert referees. The papers have been selected for these proceedings because of their quality and the relevance to the conference. We hope these proceedings will not only provide the readers a broad overview of the latest research results but also will provide the readers a valuable summary and reference in these fields.

The conference is supported by many universities, research institutes and colleges. Many professors played an important role in the successful holding of the conference, so we would like to take this opportunity to express our sincere gratitude and highest respects to them. They have worked very hard in reviewing papers and making valuable suggestions for the authors to improve their work. We also would like to express our gratitude to the external reviewers, for providing extra help in there view process, and to the authors for contributing their research result to the conference.

We would like to extend our appreciation to all participants in the conference for their great contribution to the success of ICMHSI-2026. We would like to thank the keynote and individual speakers and all participating authors for their hard work and time. We also sincerely appreciate the work by the technical program committee and all reviewers, whose contributions made this conference possible. We would like to extend our thanks to all the referees for their constructive comments on all papers; especially, we would like to thank to organizing committee for their hard work.

About ICMHSI 2026

The International Conference on Multidisciplinary Health Sciences and Innovations (ICMHSI-2026) was successfully held on 14th August 2026 in Beijing, China. Centered on the theme “Beyond Boundaries: Collaborative Research for a Smarter and Sustainable World,” the conference provided an international platform for healthcare professionals, researchers, academicians, public health experts, medical technologists, policymakers, and industry leaders to exchange knowledge, present research findings, and explore innovative approaches to global health challenges.

The conference brought together experts from diverse areas of health sciences to promote multidisciplinary research, knowledge sharing, and collaborative innovation. It focused on emerging developments in medical sciences, patient care, public health, healthcare technologies, diagnostics, treatment, and health-system strengthening. The discussions and research presentations highlighted the importance of integrating scientific knowledge, advanced technologies, and evidence-based practices to improve healthcare delivery and promote healthier societies.

ICMHSI-2026 also emphasized the development of sustainable, equitable, and accessible healthcare systems. The conference encouraged interdisciplinary collaboration aimed at addressing global health disparities, improving healthcare accessibility, and developing innovative and practical solutions to contemporary health challenges. It further provided opportunities for emerging researchers and health professionals to share their work, establish professional connections, and contribute to the advancement of health sciences and innovations.

Overall, the conference successfully facilitated meaningful academic and professional discussions while strengthening collaboration among researchers, healthcare professionals, institutions, and industry stakeholders. The valuable contributions and active participation of the delegates enriched the conference and supported its broader objective of advancing innovative, inclusive, and sustainable solutions for the future of global health.

About IFERP Life Sciences

IFERP Life Sciences—Formerly Bioleagues is a globally recognized professional association meant for research, innovation and development in the field of life sciences and medical sciences . It serves to propel and fuel all innovative works of research with immense potential in the fields of Healthcare, Life Sciences, Pharmaceutical Sciences, Medical Sciences, Food & Nutrition, Environmental Science, Oncology, Cardiology, Nursing, Microbiology, Physiotherapy, Dentistry and many more. IFERP Life Science has been directly responsible for a significant amount of the revolutionary developments that have taken place in these fields over the past few decades.

IFERP Life Science is a specialized platform that supports life science and medical professionals in advancing their careers and research impact. Our tailored solutions include international conferences, Faculty Development Programs, Webinars, author services, membership and scientific communications, designed to foster collaboration and knowledge-sharing within the global medical community.



Mission

Promote global research, innovation and development in life science, medical science, environmental science, pharmaceutical science and health care, to attain sustainable development goals (SDG's) for universal benefit.

Advance Life Science & Medical Science for societal service.

To facilitate knowledge exchange and growth through our professional activities and scientific conferences.



Vision

An inclusive global scientific community promotes excellence in life science and medical events, author services, membership, informed decisions, and actions worldwide.

Message from IFERP's Director



Managing Director & Founder,
IFERP, Technoarete Group,
India

On behalf of IFERP and the Organizing Committee, I expressed my heartfelt gratitude to the participants, keynote speakers, delegates, reviewers, and researchers for their valuable contributions.

The International Conference on Multidisciplinary Health Sciences and Innovations (ICMHSI-2026) successfully achieved its goal of enriching knowledge and fostering innovative technical exchange among international researchers, scholars, academicians, industry professionals, and practitioners in the field of Health Sciences and Innovations. The conference created opportunities to develop solutions through collaborative discussions and facilitated the sharing of innovative ideas across diverse disciplines.

ICMHSI-2026 provided a world-class platform for researchers, professionals, scientists, academicians, and students to engage in thought-provoking discussions, evaluate the existing body of research, and identify knowledge and capability gaps. The conference explored new horizons of innovation through insightful presentations and contributions from distinguished researchers, scientists, and eminent authors from academia and industry across the globe, all working toward advancements in research and innovation.

ICMHSI-2026 successfully served as an ideal platform for participants to strengthen their professional careers and progress toward becoming globally recognized specialists in the field of research and innovation.

Message from IFERP's CEO



CEO & Founder,
IFERP, Technoarete Group,
India

IFERP Academy successfully hosted the International Conference on Multidisciplinary Health Sciences and Innovations (ICMHSI-2026) in August 2026.

The primary objective of ICMHSI-2026 was to provide participants with an exceptional opportunity to learn about groundbreaking developments in modern industry, discuss challenging workplace scenarios with peers facing similar issues, and achieve significant professional growth and development. The conference featured numerous networking opportunities and informative sessions that enabled participants to gain valuable insights from widely respected experts in their respective fields.

The conference also encouraged meaningful interactions among professionals, allowing them to share their experiences, showcase the achievements of their organizations, build strong professional relationships, and establish themselves as thought leaders.

I expressed my heartfelt gratitude to all my colleagues, staff members, professors, reviewers, and members of the Organizing Committee for their unwavering dedication, commitment, and wholehearted support in making ICMHSI-2026 a grand success.

We were also sincerely thankful to all our delegates for their tireless efforts, active participation, and valuable contributions, which played a vital role in the successful completion of the conference.

About Keynote Speaker



**Dr. Kishore
Balasubramanian**

Akshaya College of Engineering and
Technology, India

Kishore Balasubramanian has 23+ years of academic experience in imparting Engineering Education. He had his Bachelor's Degree in Electronics & Instrumentation from Bharathiar University, India, Master's Degree in Applied Electronics from Anna University, India and Ph.D (Information and Communication Engineering) from Anna University, India. His research interests include Medical Image Processing and Soft Computing Techniques.

He is an active reviewer and editorial board member in many SCI and Scopus indexed scientific journals. Recently he is listed in the Golden Reviewers list of IETE Journal of Research. He has served as a Technical Committee Member, Sessions Chair and delivered Keynote Address in National and International Conferences. He has authored books in Analog Electronics and AI for medical diagnosis and book chapters. He has published 70+ papers in International and National journals (Springer, Elsevier, Taylor and Francis, Wiley, Sage etc.). He has been granted 10 Indian patents

He has been nominated as a "Bentham Ambassador" – Bentham Science Publications since 2022 and received an active reviewer award from Bentham Publishers. He serves as an Academic Editor for PLOS ONE journal, Trails (BMC Springer), MODA (Wiley), Societal Impacts (Elsevier), European Journal of Artificial Intelligence and Machine Learning, Exploration (Wiley) etc. He has received grants from CSIR and DRDO (Government Funding agencies) for conducting Faculty Development Programmes, Workshops and Conferences.

He is a member of ISTE, IRED, IEEE (Society Affiliate), ISDS, ICICS and IAENG. He has visited countries like Dubai, Singapore etc for delivering Keynote Speech at International conferences. Presently he is working as Professor & Head, Akshaya College of Engineering & Technology, India.

About Keynote Speaker



Dr. Faris Hasan
Al Lami

College of Medicine,
University of Baghdad,
Iraq

Prof. Dr. Faris Hasan Al-Lami is a Professor of Community and Family Medicine at the University of Baghdad's College of Medicine and a Fellow of the Faculty of Public Health (FFPH) at the Royal College of Physicians, UK. He earned his medical degree in 1985 and his PhD in Community Medicine in 1997, establishing a career that spans clinical practice, academic leadership, and national health governance.

Dr. Al-Lami has held transformative leadership roles in Iraq's health and education sectors. As Chancellor of Al Subtain University of Medical Sciences (2023–2025), he drove institutional reform in medical education. As Director-General of Public Health in the Iraqi Ministry of Health (2018–2019), he oversaw disease surveillance, immunization programs, and emergency response. He previously chaired the Iraq National Immunization Technical Advisory Group (NITAG), providing science-based guidance on vaccine policy.

Beyond national service, Dr. Al-Lami is a trusted public health consultant for international organizations, including WHO, UNICEF, the World Bank, US CDC, and EMPHNET. He has chaired or served on numerous technical committees for both the Ministry of Health and the Ministry of Higher Education in Iraq — advising on everything from workforce development to outbreak control.

Today, he continues to teach, research, and mentor the next generation of public health professionals at the University of Baghdad, while remaining actively engaged in global health security and immunization strategy.

About Keynote Speaker



Universiti Kebangsaan Malaysia,
Malaysia

Muhamad Firdaus Syahmi bin Sam-On is a dedicated and accomplished Senior Lecturer specializing in Microbiology, with a profound passion for research and academic excellence. He obtained his Bachelor of Science in Microbiology in 2020 and subsequently finished a PhD in the same field from Universiti Putra Malaysia in 2023. Additionally, his expertise in farming and biotechnology has equipped him with valuable skills in pests and pathogens management, laboratory protocols, and problem-solving.

Throughout his academic journey, Muhamad Firdaus Syahmi has exhibited a keen interest in exploring microbial pathogens and their potential applications in various fields, particularly in aquaculture and food safety. His doctoral research focused on evaluating the efficacy of *Bacillus* spp. as probiotics against pathogens causing Vibriosis and Aeromonosis, which culminated in several high-impact publications in esteemed journals like Microbial Pathogenesis and Food Bioscience.

Serving as a Senior Lecturer at Universiti Kebangsaan Malaysia, Muhamad Firdaus Syahmi continues to improve his passion for teaching and research. His interdisciplinary approach and innovative methodologies have earned him recognition in the field of microbiology, and his target is to make a lasting impact on scientific knowledge and understanding.

He is fluent in both Malay and English languages and always eager to learn more from his colleagues and peers in the industry. Please feel free to contact Muhamad Firdaus Syahmi Sam-on on this platform for any comments or questions related to microbiology and biotechnology.

About Keynote Speaker



Associate Professor,
The Copperbelt University,
Zambia

Subbaiya Ramasamy is working as an Associate Professor in the Department of Biological Sciences, School of Mathematics and Natural Sciences, The Copperbelt University, Zambia. Ever since, his research work has been directed to the field of Nanobiotechnology.

His areas of Research Interest include Environmental Biotechnology, Microbial Biotechnology, Nanobiotechnology, Environmental Microbiology, Renewable Energy, Cancer Biology, Bioenergy, Adsorption studies, Nanomembrane Technology, Treatment of Waste water by Algae, Phytoremediation, Phycoremediation and Bioremediation.

He had more than 18 years of Teaching Experience. To his credit, He has Received a “Young Scientist Award” from “Tamil Nadu State Council for Science and Technology”, Chennai in the year of 2011 and he has Received “Outstanding Best Paper Award” From “Nature Science Foundation” for the Research paper and Received Funds from AICTE – RPS, AICTE – MODROBS and DST-NIMAT. Received “The IET Premium Awards 2019” for the Research paper entitled “Biomimetic synthesis of silver nanoparticles from *Streptomyces atrovirens* and their potential anticancer activity against human breast cancer cells”, IET-Nanobiotechnology. Highly cited researcher (Top 2% in the world) within the report of Stanford University and Elsevier BV, 2023 - 2024. He had filed two Indian patents and published more than 105 Research and Review articles in peer reviewed journals with cumulative impact factor of 530 and published 1 book and 12 Book chapters to his credit.

He is serving as a Reviewer for several Indexed Journals. Presented papers and attended more than 30 National and International Conferences, where he completed supervision for 1 PhD, 10 MTech., students; 5 MSc. students, 1 MPhil student, 30 BTech students, 32 BSc Students and currently he is supervising 5 PhD's and 1 MPhil students.

About Keynote Speaker



Associate Professor,
Universiti Sains Malaysia,
Malaysia

Associate Professor Dr. Nani Draman is a distinguished Family Medicine Specialist at the Department of Family Medicine, School of Medical Sciences (PPSP), Universiti Sains Malaysia (USM), Kubang Kerian, Kelantan. With over 15 years of clinical experience, she is widely recognized for her expertise in comprehensive primary care, particularly in the management of diabetes and chronic diseases.

Dr. Nani is a Fellow in Point-of-Care Ultrasound (POCUS) and has been actively integrating POCUS into primary care practice for the past four years to enhance diagnostic accuracy and clinical decision-making.

She currently serves as the Head of Unit for ICSC, MPG, and BPSP at PPSP, USM, where she oversees clinical operations, quality improvement initiatives, and staff development. Dr. Nani holds a Medical Degree and a Master's in Family Medicine, along with fellowship training in Critical Care and POCUS Ultrasound.

In addition to patient care, she is deeply involved in research, mentoring, and administrative leadership, demonstrating a strong commitment to advancing excellence in primary care practice and teaching.

About Keynote Speaker



**Dr. Suwimol
Sapwarobol**

Associate Professor,
Chulalongkorn University,
Thailand

Associate Professor Dr. Suwimol Sapwarobol is a clinical nutrition expert and Head of the Department of Nutrition and Dietetics at the Faculty of Allied Health Sciences, Chulalongkorn University, Thailand. She also leads the Medical Food Research Unit, focusing on evidence-based nutritional interventions for non-communicable diseases and clinical populations.

She holds a Doctor of Public Health in Nutrition from Loma Linda University, USA, and a Master's degree in Pharmacology from Chulalongkorn University. She is a Registered Dietitian Nutritionist (USA) and a Licensed Dietitian in Thailand.

Dr. Sapwarobol has extensive academic leadership experience and serves on the national Professional Committee in Dietetics under Thailand's Ministry of Public Health. Her research centers on medical foods, diet therapy, and metabolic health, with numerous publications in international peer-reviewed journals.

She actively contributes to global research and aims to advance clinical nutrition practice through innovative medical nutrition therapy.

About Keynote Speaker



**Dr. Atul
Khajuria**

Professor,
Rayat Bahra Professional University,
India

Dr. Khajuria is a results-driven Academic Leader, Researcher, and Professor of Medical Microbiology & Pathology with over 16 years of progressive experience in higher education, research, and academic administration. As the immediate past Director of Allied Health Sciences at Desh Bhagat University, Punjab, he has demonstrated a strong track record in institution building, curriculum innovation, regulatory compliance, and industry engagement across multidisciplinary domains in Allied Health and Biomedical Sciences.

A visionary academic and administrator, Dr. Khajuria has been instrumental in designing and launching more than 15 NEP 2020-compliant undergraduate and postgraduate programs, including Critical Care Technology, Forensic Science, and Molecular Biology. He has successfully led NAAC/NMC accreditation processes, academic audits, and internal quality assurance mechanisms, contributing to improved accreditation outcomes and increased student enrollment. A recognized expert in microbiology and antimicrobial resistance, Dr. Khajuria was among the first Indian scientists to identify novel antibiotic resistance genes (bla_{NDM-1}, bla_{NDM-10}) in *Pseudomonas aeruginosa*. He has authored over 79 peer-reviewed publications, with research interests spanning antimicrobial resistance, molecular diagnostics, hospital-acquired infections, and emerging zoonotic diseases.

As a mentor, he has supported over 50 faculty members and early-career researchers in research methodology, pedagogy, and academic project development. His commitment to academic excellence is further reflected in his introduction of innovative teaching approaches, including simulation-based learning, flipped classrooms, and competency-based assessments. In administrative leadership, Dr. Khajuria has effectively managed operations for more than 500 students, overseeing admissions, budgeting, timetabling, and faculty deployment. Beyond academia, he has contributed significantly to public health initiatives, including COVID-19 diagnostics, AMR surveillance, and community outreach programs in tuberculosis control, hygiene promotion, and antimicrobial stewardship.

About Keynote Speaker



Ms. Ku Nur Azwa
Ku Aizuddin

Universiti Putra Malaysia,
Malaysia

Ku Nur Azwa was born in Kota Bharu, Kelantan, on 9th January 1997. She received her early education at SMK Bandar Tun Hussein Onn and later continued her studies at Kolej Matrikulasi Selangor.

She then pursued a Bachelor's degree in Resource Biotechnology at Universiti Malaysia Sarawak (UNIMAS). In 2019, she completed her internship at the Malaysian Palm Oil Board (MPOB), where she was trained in animal biotechnology.

For her final year project, she focused on tissue culture, an experience that ignited her interest and passion in plant biotechnology. In 2026, she completed her studies in the Master of Science program at the Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia (UPM), with a specialization in plant biotechnology.

Throughout her postgraduate journey, she gained valuable exposure by guiding undergraduate students and assisting in workshops related to tissue culture techniques, further strengthening her expertise in the field.

About Keynote Speaker



Professor,
UCSI University,
Malaysia

Professor Dr. Palanirajan Vijayaraj Kumar is a well-known professor at UCSI University who specializes in pharmacy and pharmaceutical research. He holds two patents and has authored over 101 peer-reviewed publications in Scopus-indexed journals. He has an H index of 20 and 1755 citations in WOS-indexed journals. He has supervised 12 PhDs in Pharmaceutical Sciences and 7 MScs in Pharmaceutical Technology and 8 M. Pharm in Pharmaceuticals as their main supervisor. His research interests include organic-inorganic hybrid nanomaterials and metal-organic frameworks (MOFs), as well as in silico analysis of active pharmaceutical ingredients for human health and wellness applications. He has successfully completed two fundamental research grant scheme projects from the Ministry of Higher Education and four Research Excellence and Innovation Grants and two industry consultation projects.

His achievements in the academic field include the development and implementation of the Doctor of Philosophy in Pharmaceutical Sciences, master's programs in pharmaceutical technology and sciences, a Bachelor of Formulation Sciences (Honours), and a Diploma in Cosmetic Sciences for our UCSI University. Furthermore, for his continuous contribution to research, he received the Promising Researcher Award from UCSI University in 2016, Malaysia.

In 2018, he received an InnoCentive Award from the USA for developing novel cardiac-specific ligands for targeted drug delivery sponsored by SERVIER International, an independent pharmaceutical company governed by a nonprofit foundation from France.

About Session Speaker



Dr. Rajkumar
Krishnan Vasanthi

INTI International University,
Malaysia

Rajkumar Krishnan Vasanthi is Senior Lecturer and Head of Programmes at the Faculty of Health and Life Sciences, INTI International University, Malaysia.

He holds a postgraduate qualification in Neuroscience Physiotherapy from Sri Ramachandra University, Chennai, India (Currently Sri Ramachandra Institute of Higher Education and Research). With over 20 years of experience in higher education, academic leadership, and research, he has contributed to the graduation of more than 1,000 physiotherapists globally.

He has published over 90 indexed papers, secured 12 grants, and received multiple awards for teaching, research, and academic service.

His interests include medical education, neuro-rehabilitation, digital health, sports coaching, curriculum development, and academic quality.

About Session Speaker



Dr. Shazmin
Shareena Ab Azis

Universiti Teknologi Malaysia,
Malaysia

A full-time Senior Lecturer in Real Estate at the Faculty of Built Environment and Surveying, Universiti Teknologi Malaysia (UTM), with a PhD in Real Estate, a bachelor's degree in Property Management, and a Diploma in Valuation from UTM, as well as post-doctoral experience at the same university.

A member of the Royal Institution of Surveyors Malaysia (MRISM) and the Malaysian Institute of Property and Facility Managers (MIPFM), with expertise in real estate sustainability, property appraisal, green buildings, environmental economics, cost-benefit analysis, local government taxation, and council home management. Actively involved in research grants, consultancy projects, academic publications, and conferences at both local and international levels.

Recognized as the Young Researcher Icon 2022 by UTM, while also serving as a visiting lecturer, editorial board member for several academic journals, UTM book panel member, and contributor to curriculum and syllabus development for the undergraduate Real Estate programme at UTM.

About Session Chair



**Dr. Fatemehsadat
Mirmohammadmakki**

International Advisor,
Medical Ethics and Law Research Center,
Shahid Beheshti University of Medical
Sciences, Iran

Dr. Fatemehsadat Mirmohammadmakki received her Ph.D. in Food Industrial Engineering and Science (Food Chemistry) from the Islamic Azad University, Science and Research Branch, in 2021.

She is currently a Postdoctoral Researcher and an International Advisor at the Medical Ethics and Law Research Center, Shahid Beheshti University of Medical Sciences, Iran. Her interdisciplinary research focuses on food safety, food security ethics, agricultural products, edible oils, natural extracts, and the development of sustainable biosorbents for the removal of heavy metals from food, soil, and wastewater. Her work integrates food chemistry, environmental sustainability, and bioethics to promote safer, healthier, and more sustainable food systems.

Dr. Mirmohammadmakki has published numerous peer-reviewed scientific articles, books, and book chapters and has presented her research at numerous national and international conferences.

She actively contributes to international scientific collaborations and serves as a Session Chair, Scientific Committee Member, Reviewer, and Scientific Ambassador at international conferences, promoting interdisciplinary research and global scientific collaboration.

About Session Chair



Dr. Sharmilah

Lecturer,
Department of Biomedical,
UCSI, Malaysia

Dr. Sharmilah Kumari Kumaran is a lecturer at UCSI University, Malaysia, with a PhD in Medical Microbiology specializing in Bioinformatics and System Biology.

Her research interests include medical microbiology, bioinformatics, molecular diagnostics, and infectious diseases, particularly *Leptospira* and leptospirosis. She has presented her research at national and international conferences and received Best Poster Awards for her work in leptospirosis research.

She has also contributed to peer-reviewed publications and a Springer book chapter.

About Moderators



Dr. Bernadette
R. Barro

Associate Professor,
College of Education,
Eastern Samar State University,
Philippines



Ms. Syaikha Zakira
Denila

Student,
UIN Sulthan Thaha Saifuddin Jambi,
Indonesia

About Conference Convenor



Dr. G. P. Ramesh

Conference Convenor,
India

Dr.G.P.Ramesh is a distinguished academician, visionary technologist and ambitious researcher with over 26 years of multifaceted experience spanning higher education, advanced research and industry leadership.

His career reflects a seamless integration of academic excellence and technological innovation, positioning him as a transformative force in engineering education and applied research. A dynamic leader and passionate educator, Dr.G.P.Ramesh has served as Professor and Head of Electronics and Communication Engineering at prestigious institutions across India and abroad.

He has mentored undergraduate, postgraduate and doctoral scholars, successfully guiding Twenty-Two Ph.D. candidates and nurturing a culture of inquiry and excellence. His academic expertise encompasses artificial intelligence, machine learning, embedded systems, VLSI design and antenna technologies. With more than 125 publications in Scopus-indexed journals, his scholarly influence is evidenced by an H-index of 32 and an i10-index of 70, marking him as a prominent contributor to global research discourse.

He has also organized Twelve International and Six National conferences, publishing proceedings with Springer and ensuring global visibility through Scopus and Web of Science. A pioneer in Outcome-Based Education and a strategic advisor for NAAC, NBA and Autonomous frameworks, Dr.G.P.Ramesh continues to shape future-ready engineers and scalable, tech-driven solutions for India and beyond.

About Committee

Organizing Committee

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Associate Professor, Faculty of Medicine & Health
Sciences, UCSI, Malaysia

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A Comparative Study of Standard 12-Lead and Modified Mason-Likar Lead Electrocardiography Systems in Mongolia

Bulgamaa Baatar

The General Hospital for State Special Servants, Mongolia

Oyuntsetseg Luvsandash

Department of Information Technology, National Engineering and Technology School, Ikh Zasag International University, Mongolia

Abstract:

Electrocardiography (ECG) is a diagnostic method that graphically records the generation and transmission of cardiac electrical impulses. The electrical excitation wave originating from the sinoatrial (SA) node propagates concentrically throughout the human body. Because these excitation waves form concentric circles, the electrical potential remains uniform at any point along a given circle, a phenomenon known as an equipotential line. Given that the palms and soles lie within these equipotential fields, cardiac excitation waves can be effectively recorded by placing ECG electrodes on these distal areas.

The Mason-Likar positioning system is widely utilized in emergency and intensive care units across major hospitals globally, including in the United States, the United Kingdom, Germany, China, Sweden, and India [4]. First developed in 1966 by American physician Robert E. Mason and Ivar Likar, this method shifts electrodes from the limbs to the torso to minimize motion artifacts during exercise stress testing.

As of 2024, Mongolia operates 617 inpatient hospitals, comprising 388 public and 229 private facilities. These institutions perform standard electrocardiograms utilizing the traditional 12-lead system (comprising 6 limb leads and 6 precordial leads) in compliance with the national standard MNS 4621:2008. Although the modified electrode placement method (positioning limb leads on the shoulders, hips, and chest) has been implemented in the outpatient and health support departments of the General Hospital for State Special Servants since 2022, no comparative study has yet evaluated its diagnostic outcomes or time efficiency against the standard limb and precordial lead system.

Therefore, this study aims to conduct a comparative analysis between the standard ECG method (utilizing traditional arm, leg, and chest connections) and the modified method (utilizing shoulder, hip, and chest connections) focusing on clinical outcomes and procedural time efficiency.

Some Issues in Improving Management Methods

Lutchimeg Khurelbaatar

Head of Curriculum and Quality Assurance, Ikh Zasag University, Mongolia

Erkhembayar Tseveen

Department of Information and Technology, National Engineering and Technology School, Ikh Zasag University, Mongolia

Natsagdorj Batbayar

International University of Ulaanbaatar, Ulan Bator, Mongolia

Khosbayar Erkhembayar

Department of Information and Technology, National Engineering and Technology School, Ikh Zasag University, Mongolia

Abstract:

This study investigates key issues in the improvement of managerial methods within organizational contexts. It emphasizes the integration of management theory and practice, demonstrating how effective managerial approaches enhance organizational performance, coordination, and team effectiveness. Management, as an evolving scientific discipline, is continuously refined through practical application, which simultaneously generates new theoretical insights (Lutchimeg & Damdinsuren, 2026).

The study argues that managers equipped with systematic knowledge, psychological insight, and practical leadership competence are better positioned to implement effective organizational strategies (Maxwell, 2015). In addition, this paper examines motivational and disciplinary approaches in leadership and evaluates their impact on employee behavior, organizational climate, and performance outcomes.

Index Terms:

Management Methods; Leadership; Organizational Behavior; Motivation; Team Performance;
Managerial Effectiveness

Organizational Behavior And Leadership Styles Among Hospital Administrators On Nurses Safety

Jovi Magsayo

Liceo de Cagayan University College of Nursing Graduate Studies, Philippines

Abstract:

In today's complex healthcare environments, the safety of nursing staff is significantly influenced by hospital leadership's actions and effectiveness. This study examines how organizational behaviors and leadership styles of hospital administrators affect nurses' evaluation of safety in selected private hospitals in Iligan City. Using a descriptive-correlational causal design, we collected data from 150 registered nurses. Data were gathered via a researcher-adapted survey. Statistical analysis included weighted means for descriptive data, Pearson correlation for linear relationships, and multiple regression to identify predictors of safety. Findings showed high levels of organizational behavior and leadership styles, with significant positive correlations between safety and both organizational behavior and leadership styles. Key predictors of safety included patient safety culture, servant leadership, and situational leadership. This study concludes that Situational and Servant Leadership behaviors are crucial for fostering a safe nursing environment, and the best predictor of nurses' safety is the organization's commitment to a patient safety culture. Therefore, integrating strong patient safety protocols with supportive and adaptive administrative practices is essential to building a resilient, high-performing workforce dedicated to long-term success

Index Terms:

Nurse safety, Hospital Administration, Leadership Styles, Patient Safety Culture, Organizational Behavior

Laser Doppler Assessment of Denture-Bearing Mucosal Microcirculation and Alveolar Ridge Changes in Post-Bariatric Patients

Tamila F. Salavatova

Tashkent State Medical University, Tashkent, Uzbekistan

Abstract:

Background: Post-bariatric patients frequently develop metabolic disturbances that impair oral microcirculation and may compromise prosthetic rehabilitation. This study evaluated microcirculatory and alveolar ridge changes following removable partial denture treatment.

Methods: Ninety participants were enrolled: 60 post-bariatric patients and 30 healthy controls. Patients underwent either comprehensive rehabilitation with metabolic support (L-carnitine and L-arginine) or conventional treatment. Mucosal microcirculation was assessed by laser Doppler flowmetry, while alveolar ridge height, width, and bone density were monitored for 12 months.

Results: Baseline mucosal perfusion was significantly lower in post-bariatric patients than in controls (12.4 ± 3.5 vs. 18.6 ± 4.0 PU). After 12 months, perfusion improved to 17.9 ± 3.9 PU in the comprehensive treatment group versus 14.1 ± 3.5 PU with conventional therapy. Alveolar ridge resorption was also reduced in the comprehensive rehabilitation group.

Conclusions: Individualized prosthetic rehabilitation combined with metabolic support improves mucosal microcirculation and limits alveolar ridge resorption, contributing to more favorable long-term outcomes in post-bariatric patients receiving removable partial dentures

Philosophical Concepts Influencing Individual Political Participation and Socialization

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Abstract:

Political participation and socialization are deeply connected to philosophical understandings of individuality, morality, freedom, responsibility, and social consciousness. This article examines the philosophical foundations that shape an individual's political involvement within society. Drawing upon classical and contemporary philosophical perspectives, the study analyzes the relationship between political consciousness, democratic values, moral responsibility, and social behavior. The paper argues that political philosophy provides the normative framework through which citizens understand justice, liberty, equality, and participation in political life. Furthermore, the article explores how democratic political culture promotes civic responsibility, tolerance, and respect for human rights while emphasizing the role of socialization in shaping political identity. Through a comparative and interpretive approach, the study highlights the importance of philosophical thought in developing socially responsible and politically active citizens.

Index Terms:

Political Philosophy, Political Participation, Socialization, Democracy, Individuality, Civic Responsibility, Freedom, Justice

