



# 2<sup>nd</sup> International Multidisciplinary Conference on Medical & Health Sciences

 **18<sup>th</sup> & 19<sup>th</sup> December 2025**

 **Bangkok, Thailand**



# IMCMH 2025



Organized By



IFERP Life Sciences—Formerly Bioleagues

Associate Partner



Norxin International Science and  
Technology Cooperation Base, China



International Multidisciplinary Conference on  
**Medical & Health Sciences**

2<sup>nd</sup> International Multidisciplinary Conference on Medical & Health Sciences (IMCMH-2025),  
Bangkok, Thailand

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Conference Theme:

**“ Multidisciplinary  
Research:  
Transforming Future  
Medical and Health  
Solutions ”**

- IMCMH 2025



## Preface

We are delighted to extend a warm welcome to all participants attending “2<sup>nd</sup> International Multidisciplinary Conference on Medical & Health Sciences (IMCMH-2025)” organized by Norxin International Science and Technology Cooperation Base, China and IFERP Life Sciences—Formerly Bioleagues on December 18<sup>th</sup>-19<sup>th</sup>, 2025 at Bangkok, Thailand. This conference provides a vital platform for researchers, students, academicians, and industry professionals from all over the world to share their latest research results and development activities in the fields of Medical & Health Sciences. It offers delegates an opportunity to exchange new ideas and experiences, establish business or research relationships, and explore global collaborations.

The proceedings for IMCMH-2025 contain the most up-to-date, comprehensive, and globally relevant knowledge in the fields of Medical & Health Sciences. All submitted papers were subject to rigorous peer reviewing by 2-4 expert referees, and the papers included in these proceedings have been selected for their quality and relevance to the conference. We are confident that these proceedings will not only provide readers with a broad overview of the latest research results in Medical & Health Sciences but also serve as a valuable summary and reference for further research in those fields.

We are grateful for the support of many universities and research institutes, whose contributions were vital to the success of this conference. We extend our sincerest gratitude and highest respect to the many professors who played an important role in the review process, providing valuable feedback and suggestions to authors to improve their work. We also extend our appreciation to the external reviewers for providing additional support in the review process and to the authors for contributing their research results to the IMCMH-2025.

We express our gratitude to the keynote and individual speakers and all participating authors for their dedication and hard work. We also sincerely appreciate the efforts of the technical program committee and all reviewers, whose contributions made this conference possible. Finally, we extend our thanks to all the referees for their constructive comments on all papers, and we express our deepest gratitude to the organizing committee for their tireless work in making this conference a reality.

# About **IMCMH 2025**

We are delighted to welcome you to the 2<sup>nd</sup> International Multidisciplinary Conference on Medical & Health Sciences, set to take place in the vibrant city of Bangkok, Thailand. Under the theme “Multidisciplinary Research: Transforming Future Medical and Health Solutions”, this prestigious event brings together researchers, healthcare professionals, academicians, and industry experts from around the world.

This conference serves as a global platform for exchanging cutting-edge research, innovative practices, and transformative insights in the field of medical and health sciences. It aims to foster collaboration across disciplines, drive scientific advancements, and explore the latest developments that shape the future of healthcare.

## Scope of the Conference

International Conference on Biochemistry and Molecular Innovations will cover a broad spectrum of topics, including but not limited to:

**Biochemical Pathways & Molecular Mechanisms** – Understanding cellular processes and molecular interactions for medical advancements.

**Genomics, Proteomics & Metabolomics** – Exploring how molecular-level research is transforming disease diagnosis, drug discovery, and personalized medicine.

**Biotechnology & Pharmaceutical Innovations** – Investigating new biochemical applications for drug development, vaccine research, and therapeutic interventions.

**Sustainability in Biochemistry** – Examining eco-friendly biochemical solutions for waste management, biofuels, and green chemistry.

**Molecular Medicine & Disease Research** – Discussing the role of molecular innovations in cancer research, neurobiology, and metabolic disorders.

**Emerging Technologies in Biochemistry** – Exploring the impact of AI, nanotechnology, and synthetic biology on the biochemical sciences.

## About IFERP Life Sciences

IFERP Life Sciences—Formerly Bioleaguesis 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.



### Our 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.



### Our Vision

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

## Message Director, IFERP



**Mr. Siddh Kumar**

**Chhajer**

Founder & Managing Director,  
IFERP, Technoarete Group, India

On behalf of Institute For Educational Research and Publications (IFERP) & the organizing Committee, I express my hearty gratitude to the Participants, Keynote Speakers, Delegates, Reviewers and Researchers.

The goal of the 2<sup>nd</sup> International Multidisciplinary Conference on Medical & Health Sciences, (IMCMH-2025) is to provide knowledge enrichment and innovative technical exchange between international researchers or scholars and practitioners from the academia and industries of related fields.

This conference creates solutions in different ways and to share innovative ideas in the related fields. IMCMH-2025 provides a world class stage to the Researchers, Professionals, Scientists, Academicians and Students to engage in very challenging conversations, assess the current body of research and determine knowledge and capability gaps.

IMCMH-2025 will explore the new horizons of innovations from distinguished Researchers, Scientists and Eminent Authors in academia and industry working for the advancements in related fields from all over the world. IMCMH-2025 hopes to set the perfect platform for participants to establish careers as successful and globally renowned specialists in the related fields.

## Message **CEO, IFERP**



**Mr. Rudra Bhanu**

**Satpathy**

Founder & Chief Executive Officer,  
IFERP, Technoarete Group, India

IFERP is hosting the 2<sup>nd</sup> International Multidisciplinary Conference on Medical & Health Sciences, (IMCMH-2025) this year in month of December, 2025. The main objective of IMCMH-2025 is to grant the amazing opportunity to learn about groundbreaking developments in modern industry, talk through difficult workplace scenarios with peers who experience the same pain points and experience enormous growth and development as a professional. There will be no shortage of continuous networking opportunities and informational sessions.

The sessions serve as an excellent opportunity to soak up information from widely respected experts. Connecting with fellow professionals and sharing the success stories of your firm is an excellent way to build relations and become known as a thought leader. I express my hearty gratitude to all my Colleagues, Staffs, Professors, Reviewers and Members of Organizing Committee for their hearty and dedicated support to make this conference successful. I am also thankful to all our delegates for their pain staking effort to make this conference successful.

## About **Keynote Speaker**



**Dr. Susarla Venkata**

**Ananta Rama Sastry**

Harcourt Butler Technical University,  
India

Dr. S.V.A.R.Sastry has more than 20 years of teaching and research experience. He was B.Tech Gold Medalist from NIT Jalandhar, M.Tech Silver Medalist from IIT Delhi and got Best Ph.D Thesis Award from JNTU Kakinada. He has authored 12 Patents, 24 International Books in the area of Renewable Energy, Unit Operations & Heat Transfer. He has published more than 70 Research Papers and presented papers in more than 60 International Conferences. He is a Member Scientist of CORE GROUP of Scientists on Tree Borne Oil seeds for promotion, utilization and socio-economic linkages in Southern India. He is a Senior Member of Institution of Engineers, Indian Institute of Chemical Engineers, Indian Desalination Association, International Association of Computer Science and Information Technology and Institute for Engineering Research and Publication. He has been awarded Outstanding reviewer status by Elsevier, U.S. and granted full free access to Scopus by Elsevier, U.S. He is an Editor for five International Journals and Editorial Board member for six International Journals.

His Biography has been published in Marquis Who's Who in the World, 31st, 32nd & 33rd editions consecutively. He got the Andhra Pradesh University Best Teacher Award from JNTU Kakinada for five consecutive years from 2008 to 2013. He is a Recipient of International Awards from IBC, Cambridge, England. He got selected for inclusion in "100 Best Educators of 2014"; "2000 Outstanding Intellectuals of the 21st Century"; "CAMBRIDGE CERTIFICATE for Outstanding Educational Achievement"; and the prestigious "Leading Professionals of the World-2014" by International Biographical Centre (IBC), Cambridge, England.

He is giving consultation in the design and implementation of 'High Speed Industrial Vaporizer', 'Mixing Device for Chemical Absorption Process' and 'Exploring Disruptions, Formulations, and Technologies in Lubricant Industry' to Convetit, U.S. He has given more than 40 Keynote lectures in various International Conferences held at Brazil, Dubai, Spain, China, Canada, Germany, Italy, France and UK. He received the Pillars of the

Nation Award for Excellence and Innovation in Education Sector from the Delhi Vidhan Sabha in 2023. He got the Outstanding Alumni Faculty Award from IIT Delhi in 2023. He got the University Research Excellence Award for 2023 and 2024 from HBTU Kanpur. He is selected as Fellow by Institution of Engineers (India) in 2024. He is appointed as 'Regional Mentor of Change for Uttar Pradesh' by Atal Innovation Mission, NITI Aayog, GOI, New Delhi in 2024. He was honored with the "Outstanding Leadership in Research and Innovation" Award in the 29 th World Education Summit, New Delhi on 5 th July, 2024. Presently, he is working as the Associate Dean (Research & Development); Deputy Controller of Examinations and University Counsellor at the Harcourt Butler Technical University, Kanpur, Uttar Pradesh, India.

## About **Keynote Speaker**



Prof. Ts. Dr. Mohd Nasir Mohd Desa is a distinguished academic and researcher in health sciences at Universiti Putra Malaysia (UPM). He earned his bachelor's degree in microbiology from the University of Arizona, USA, followed by a Master of Medical Science and a Ph.D. in medical microbiology from the University of Malaya, Malaysia. He had served as the Head of Laboratory for Halal Science Research, Head of Biomedical Science Department and Director of Halal Products Research Institute at UPM. Currently, He serves as a Professor at the Faculty of Medicine and Health Sciences, UPM, where he focuses on teaching and research in medical microbiology. He has collaborated extensively with researchers across disciplines, resulting in a substantial body of work that bridges microbiology, biotechnology and Halal science. Notably, he is a registered Professional Technologist (Ts.) in biotechnology with the Malaysia Board of Technologists (MBOT). Throughout his career, he has contributed significantly to the scientific community, authoring numerous publications, advancing scientific knowledge with practical implications for public health and Halal product verification.

Professor,  
Faculty of Medicine and Health Sciences,  
Universiti Putra Malaysia  
Malaysia

## About Keynote Speaker



**Dr. Makhyan Jibril**

**Al Farabi**

Soetomo General Hospital,  
Airlangga University,  
Indonesia

Dr. Makhyan Jibril A. is a cardiologist specializing in electrophysiology at Soetomo General Hospital, Surabaya. A recipient of the UK Alumni Award for Science and Sustainability (2022), he holds advanced degrees in Healthcare Management and Entrepreneurship from University College London and an MBA from Quantic Business School, USA. With over 30 research publications and extensive experience in health policy and public communication, he has served in key national roles within the Ministry of Health Indonesia and as a COVID-19 spokesperson for East Java. His work bridges medicine, innovation, and public health transformation.

## About **Keynote Speaker**



Professor,  
Rhodes University,  
South Africa

Prof. Dr. Sandile M.M. Khamanga is the Dean and Head of the Faculty of Pharmacy at Rhodes University, South Africa. He holds a BSc from the University of Swaziland, as well as BPharm, MSc (Pharm), and PhD degrees from Rhodes University. A distinguished academic and researcher, Prof. Khamanga is affiliated with the Swaziland Medical and Dental Council, the Pharmaceutical Society of South Africa, and the American Association of Pharmaceutical Scientists. His teaching spans a wide array of pharmaceutical sciences, including drug formulation, microencapsulation, sterilization, and drug delivery systems. His research focuses on pharmaceutical formulation development, mathematical modeling of drug release kinetics, and advanced techniques like response surface methodology and solid-state characterization. Prof. Khamanga has received several research development grants and has published extensively in international journals on topics such as nanocarrier drug delivery, ocular therapeutics, and environmentally focused pharmaceutical analysis.

## About Keynote Speaker



**Dr. Pahurat Kongmuang**

**Taisuwan**

Director, Secretariat Office of the Royal  
Development Projects Committee,  
Department of Disease Control,  
Ministry of Public Health, Thailand

Dr. Pahurat has been a dedicated public health professional at Thailand's Ministry of Public Health since 2001, specializing in infectious disease control and crisis risk communication. She holds a Ph.D. in Medical and Public Health Social Sciences and has led numerous initiatives addressing emerging infectious diseases such as COVID-19, SARS, MERS, and Zika. Currently, she serves as the Director of the Secretariat Office of the Royal Development Projects Committee, focusing on disease prevention and health programs for vulnerable populations, including rural communities and prison inmates. Her work emphasizes health communication, emergency response, and health literacy.

## About **Keynote Speaker**



**Mr. R. C. Mishra**

Vice Chancellor  
Mahakaushal University  
India

Prof. Dr. R.C. Mishra is a renowned educationist in the field of Higher Education. He has a vast career as an academician. He is currently heading Mahakaushal University as a Vice Chancellor. A committee member of various panels pan India including UPPSC, NAAC & UGC-HRDC, Bar Council of India. He has played a pivotal role in designing various policies for improving the quality of education. He has been an author of more than 50 Research articles, more than 20 Indian & International patents and various other popular articles. His dedication for the weaker section of society specifically for women's education is a well known fact to everyone. He has been consistently working for bringing quality education to the weakest and underprivileged section of the society.

## About Session Speaker



**Ts. Dr. Teoh Kok  
Ban**

Senior Lecturer,  
National Higher Education Research  
Institute (IPPTN),  
Universiti Sains Malaysia,  
Malaysia

Ts. Dr. Teoh Kok Ban is a dedicated academic and practitioner committed to advancing higher education, human development, and organizational wellbeing. He currently serves as a Senior Lecturer at the National Higher Education Research Institute (IPPTN), Universiti Sains Malaysia, where he integrates research, counselling, and professional training to create meaningful impact within education and society.

He holds a Doctor of Philosophy in Organizational Behavior and Development, along with Master's degrees in Statistics and Counseling. His interdisciplinary background enables him to bridge analytical expertise with human-centered approaches. He is a Professional Technologist registered with the Malaysian Board of Technologists and a Registered Counselor under the Malaysian Board of Counselors.

As an HRD Corp Accredited Trainer, Dr. Teoh actively delivers capacity-building programs, academic-industry collaborations, and professional development workshops. His academic contributions include editorial and peer review roles for indexed journals, and he has received recognitions for excellence in research, scholarly presentation, and academic leadership.

Beyond his academic and professional commitments, Dr. Teoh is dedicated to humanitarian service with a focus on mental health, youth empowerment, and educational equity. He believes that impactful change is achieved through the integration of knowledge, empathy, and purposeful action. This belief continues to guide his work and contributions to the communities he serves.

# About Organizing Committee

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Ambassador, ASEAN Youth Organization Founding  
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## Cultural Influences on Mental Health Stigma and Help-Seeking Behavior Among Youth in Mountain Province, Philippines

**June II A. Kiblasan**

School of Healthcare Education, Mountain Province State University, Poblacion, Bontoc, Mountain Province, Philippines

**M**ental health is a fundamental human right that mandates accessible, inclusive, and holistic services to reduce stigma; however, it remains overlooked, with stigma persisting as a major barrier to effective care. This study aimed to examine the influences of Igorot cultural values on mental health stigma and help-seeking behaviors among youth in Mountain Province, Philippines, using a mixed-methods approach. Surveys were administered to 300 high school learners and college students, and 30 participants from the surveyed respondents for key informant interviews, based on established criteria. Findings revealed that stigma was more pronounced among high school learners (4.67) than college students (3.69), and help-seeking behaviors were moderately higher among high school learners (4.24) than college students (3.19). An independent samples t-test confirmed significant differences between groups,  $t(298)=-18.30$ ,  $p=.001$ , with college students reporting lower stigma and more positive help-seeking behaviors. Meanwhile, high school learners & college students have a strong, positive, and statistically significant correlation,  $r(148)=.669$ ,  $p=.000$ , in contrast to mental health stigma & help-seeking behavior, which are not statistically significant, with a correlation,  $r(298)=.009$ ,  $p=0.88$ . This means that the higher or lower levels of stigma do not correspond meaningfully with changes in help-seeking tendencies, whereas educational level influences stigma and help-seeking behavior. Meanwhile, key informant interviews identified four cultural themes: *Kasiyana*, *Natibker*, *Kababain*, and socio-geographic exposure, which shaped stigma and help-seeking behaviors. These provided resilience but reinforced silence and underutilization of services. Thus, the GAWIS model framework, a culturally responsive model, is recommended for enhancing resilience by reducing stigma, addressing socio-geographic barriers, and integrating culturally grounded mental health literacy in schools and communities.

**Index Terms—Mental Health, Stigma, Help-Seeking Behavior**

## The Exploration Risk Factors for Acute Respiratory Infections of Children Under 5 Years in Central Papua: A Correlational Quantitative Survey Study

**Fransisca B. Batticaca**

Nursing Study Program, Faculty of Medicine, Cenderawasih University, Papua, Indonesia

**Ferdinand Yawa**

Medical Study Program, Faculty of Medicine, Cenderawasih University, Papua, Indonesia

**A**cute respiratory infections are one of the causes of child mortality in the world in 2020. Meanwhile, in Papua, this disease is often experienced by children under 5 years from 2020 until now. The purpose of the study was to explore the risk factors for acute respiratory tract infections in children under 5 years in Yaro Health Center work area Nabire, Central Papua. The descriptive research method of the cross-sectional survey on 94 people using purposive sampling was carried out in 2024. A correlational quantitative survey study was used. New research shows that children under 5 years who experience acute respiratory tract infections are 50%. Study results show that the majority of children under 5 years aged 0-12 months are 42.6%; females 55%. The person in charge of children under 5 years works 73%, male, 51%, history of acute respiratory tract infections 21.3%. Non-harvesting houses 56.4%, using porcelain floors 54.3%, the roof is 100% zinc, electricity is 100% lighting. Clean water sources for wells 58.5%; Wood fuel 35%, Wastewater sewer ownership is 58.5%, latrine ownership is 21.3%. The chi square test showed that there was a significant relationship between gender, occupation, residence and responsibility of children under 5 years and the use of cooking fuel with the incidence of respiratory tract infections ( $p$ -values \*0.008, \*0.013, 0.041, and 0.001;  $\alpha < 0.05$ ). Conclusion: The characteristics of the responsibility person and the use of the type of fuel are risk factors for acute respiratory infection in children under 5 years. Therefore, it is recommended to intervene in these factors through health promotion and family empowerment.

**Index Terms—**Children under 5 Years, Acute Respiratory Infections, Yaro Health Center, Risk Factors, Central Papua

## The Efficacy and Value of Blood Transfusion in the Treatment of Autoimmune Hemolytic Anemia

**Fei Liu**

Department of Medical Laboratory, People's Hospital of Hechuan District, Chongqing, China

**O**bjective: To study and analyze the therapeutic effect and value of blood transfusion in patients with autoimmune hemolytic anemia (AIHA).

*Methods:* 100 patients with AIHA admitted to our hospital between January 2017 and January 2019 were selected as the study subjects. The patients were divided into two groups using a table of random numbers. The control group (n=50) received conventional corticosteroid therapy, while the observation group (n=50) received washed red blood cell transfusion therapy. The total clinical effective rate and the levels of hemoglobin, red blood cells, reticulocytes, and serum bilirubin before and after treatment were compared between the two groups.

*Results:* After treatment, the total clinical effective rate in the observation group was 95.6% (43/45), which was higher than that in the control group (80.0%, 36/45), and the difference was statistically significant ( $P < 0.05$ ). Before treatment, there were no significant differences in hemoglobin, red blood cell, reticulocyte and serum bilirubin between the observation group and the control group ( $P > 0.05$ ). After treatment, the levels of hemoglobin ( $82.65 \pm 6.05$  g/L), red blood cells ( $3.82 \pm 0.62 \times 10^{12}$ /L), reticulocytes ( $16.96 \pm 5.21$  %), serum bilirubin ( $37.06 \pm 8.37$   $\mu$ mol/L) in the observation group were superior to those in the control group ( $71.68 \pm 4.86$  g/L,  $3.35 \pm 0.38 \times 10^{12}$ /L,  $22.62 \pm 4.61$ %,  $42.18 \pm 8.06$   $\mu$ mol/L, respectively). These differences were statistically significant ( $P < 0.05$ ).

*Conclusion:* The efficacy of blood transfusion therapy for patients with autoimmune hemolytic anemia is evident, as is its significant impact on various treatment indicators. The therapeutic value of this approach is noteworthy, underscoring its potential for further promotion.

**Index Terms—**Blood Transfusion, Autoimmune Hemolytic Anemia, Clinical Efficacy, Therapeutic Value

## Morphological Examinations in Early Diagnosis of Gastric Cancer: The Importance of Studying H.Pylori Strains

**Rakhimova Shakhnoza Shukhratovna**

Republican Specialized Scientific Practical Medical Center for Therapy and Medical Rehabilitation, Uzbekistan

**Ismailova Jadida Akhmedzhanovna**

Republican Specialized Scientific Practical Medical Center for Therapy and Medical Rehabilitation, Uzbekistan

**T**he authors studied the significance of morphological examinations and pathogenic strains of H. pylori in 100 patients with gastric diseases infected with H. pylori and 20 people who formed a control group for the early diagnosis of gastric cancer. The results of the study showed that a weak level of H. pylori infection of the gastric mucosa in chronic gastritis is associated with a low intensity of inflammatory changes, and the CagA gene can be used as a marker gene for the pathogenic status of H. pylori.

*Aim of the Study:* To study the importance of morphological examinations and pathogenic strains of H. pylori in the early diagnosis of gastric cancer.

*Object of the Study:* 100 patients with gastric diseases infected with H. pylori, the subjects of which were molecular genetic examinations, morphological examination materials from targeted biopsy samples to detect pathological changes in the gastric mucosa.

*Conclusions:* 1) In chronic gastritis, the weak level of infection of the gastric mucosa with H. pylori is associated with a low intensity of inflammatory changes. 2) The results of the study showed that the CagA gene is a risk factor for the development of gastrointestinal diseases and that this gene can be used as a marker gene for the pathogenic status of H. pylori.

## From Connectivity to Care: Telecommunication as a Catalyst in the Healthcare Ecosystem of Bangladesh

**Arif Al Mannan**

Banglalink Digital Communications Limited, Dhaka, Bangladesh

**B**angladesh, a lower-middle-income nation of over 170 million people, continues to face pronounced healthcare disparities, with only six registered physicians per 10,000 population. Combined with an average monthly income of \$225 and high out-of-pocket expenditures, these constraints hinder national healthcare attainment. Despite the emergence of multiple digital-health providers, rural penetration, customer affordability and user trust remain limited.

Given that Bangladesh consists of 95 percent 4G coverage and 77 million internet users, telecommunication operators are key to the solution. This study evaluates how telecommunication operators helped bridge gaps in awareness, trust, access, and affordability in healthcare provision and attainment. Employing the RE-AIM framework (mixed method), we analyzed Banglalink's digital healthcare (BL Care) Initiatives, integrated within its MyBL super-app, the telecommunication selfcare app, and the national retail network. Findings indicate measurable improvements in accessibility (healthcare consumers are from 63 out of 64 districts nationwide) and affordability (0.20 cents per doctor consultation). Both comparative and descriptive analysis demonstrates that telecom-based digital-health ecosystems can bridge systemic gaps in service delivery and provide accessible and affordable healthcare. This model is further scalable by collaboration with government healthcare initiatives as well as through further integration of healthcare in telecommunication distribution channel

