



المنظمة الأورو عربية لأبحاث البيئة والمياه والصحراء
The Euro-Arab Organization for Environment, Water & Desert Researches

Under the Patronage

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**THE INTERNATIONAL CONFERENCE ON
MEDICAL AND HEALTH SCIENCES (ICMHS2026)**



Scopus

**ANTALYA - TURKEY
6-10/NOV/2026**

The International Conference on Medical and Health Sciences (ICMHS 2026)

International Comprehensive Conference on Medical and Health Sciences

Organized by
Faculty of Nursing – Irbid National University
In collaboration with
The Euro-Arab Organization for Environment, Water and Desert Research (EWDR)
Antalya, Türkiye
6–10 November 2026

Introduction

In light of the rapid advancements in medical and health sciences, there is an increasing need for advanced scientific platforms that promote academic dialogue and facilitate the exchange of knowledge and expertise among researchers and healthcare professionals.

This conference provides a distinguished opportunity to showcase the latest scientific research and innovations while fostering interdisciplinary collaboration among various medical specialties. It also emphasizes the integration of modern technologies, particularly Artificial Intelligence (AI) and digital transformation, through broad national and international participation.

Conference Mission

To strengthen integration among medical and health science disciplines, promote scientific and technological research through innovation, and expand collaborative opportunities among universities and research institutions at both national and international levels.

Conference Objectives

- Promote scientific collaboration among researchers in various medical and health disciplines from different countries.
- Present the latest scientific research and innovative practices in medical and health sciences.
- Highlight the role of Artificial Intelligence in medical diagnosis, clinical decision support, and healthcare improvement.
- Foster regional and international collaboration among healthcare and research institutions.
- Address ethical and professional challenges associated with digital transformation in healthcare.

Target Audience

- Faculty members and researchers from universities and health science institutions.
- Undergraduate and postgraduate students in medical and health disciplines.
- Healthcare professionals across all medical specialties.
- National and international healthcare and research organizations.
- Organizations specializing in Artificial Intelligence and Digital Health.

The International Conference on Medical and Health Sciences (ICMHS 2026)

Chair of the Conference Organizing Committee

Dr. Abdullah Abu Ashour
Dean, Faculty of Nursing
Irbid National University – Jordan

Organizing Committee Members

Country	University / Institution	Name
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Jordan	Irbid National University	Dr. Salem Bani Hani
Lebanon	Beirut Arab University	Dr. Mirna Fawaz
Jordan	Jordan University of Science and Technology	Dr. Alaa Atteer
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Country	University / Institution	Name
Jordan	Jadara University	Prof. Abdullah Tarad Al-Fawaz
Jordan	The Hashemite University	Prof. Amin Alimat
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Jordan	Yarmouk University	Prof. Muawiya Khattabeh

The International Conference on Medical and Health Sciences (ICMHS 2026)

Chair of the Scientific Committee

Prof. Abdullah Tarad Al-Fawaz
Jadara University – Jordan

Scientific Committee Members

Country	University / Institution	Name
Jordan	The Hashemite University	Prof. Amin Alimat
Jordan	Jordan University of Science and Technology	Prof. Mohammad Khalifeh
Jordan	Al-Hussein Bin Talal University	Prof. Osama Al-Dhunaibat
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Lebanon	Beirut Arab University	Associate Prof. Kamal Hussein Zahran
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Country	University / Institution	Name
Jordan	Jerash University	Dr. Ibrahim Ayasrah
Jordan	Yarmouk University	Dr. Haitham Khattabeh
Jordan	Philadelphia University	Dr. Talal Ayasrah

Conference Tracks

Faculty of Nursing

Conference Theme:

The Nursing Track aims to highlight the future of nursing care in the era of digital transformation by exploring the applications of Artificial Intelligence and smart technologies in clinical nursing practice and nursing education.

The conference welcomes original research articles, experimental studies, systematic reviews, and evidence-based research addressing innovation in nursing care, development of nursing competencies, patient safety, and nursing leadership within modern healthcare systems at local, regional, and international levels.

Track 1: Smart Nursing and Digital Nursing Care

- Clinical Decision Support Systems (CDSS) in Nursing
- Electronic Nursing Documentation and Digital Health Records
- Telenursing and Virtual Nursing Care
- Smart Wearable Technologies in Nursing Follow-up

Track 2: Artificial Intelligence in Nursing Practice

- AI Applications in Patient Assessment
- Predictive Models for Nursing Outcomes and Complications
- Nursing Robotics in Healthcare Settings
- Generative Artificial Intelligence in Nursing Education

Track 3: Emergency and Critical Care Nursing

- Contemporary Nursing Protocols in Emergency Care
- Digital Patient Monitoring in Critical Care Units
- Nursing Management of Health Emergencies and Disasters
- Simulation-Based Emergency Nursing Training

Track 4: Quality of Nursing Care and Patient Safety

- Nursing Performance Indicators and Quality Measurement
- Patient Safety Culture in Healthcare Settings
- Medication Error Management and Clinical Incident Reporting
- Nursing Clinical Audit and Evidence-Based Practice Improvement

Track 5: Nursing Education and Simulation-Based Training

- Virtual Reality (VR) and Augmented Reality (AR) in Nursing Education
- E-learning and Digital Nursing Education Platforms
- Simulation Centers and Clinical Skills Laboratories
- Nursing Competencies in the Digital Era

Track 6: Mental Health and Professional Well-being of Nurses

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- Occupational Stress and Burnout Among Nurses
- Mental Health Support in Healthcare Work Environments
- Nursing Workforce Retention Strategies
- Nurse Resilience and Professional Work-Life Balance

Track 7: Community Nursing and Primary Health Care

- The Role of Nurses in Health Promotion and Disease Prevention
- Home Nursing and Chronic Disease Management
- Maternal, Child, and Gerontological Nursing
- Health Education and Patient Participation in Healthcare Decision-Making

Track 8: Professional Ethics and Nursing Leadership

- Ethics of Nursing Practice in the Era of Artificial Intelligence
- Patient Privacy and Health Data Protection
- Leadership and Management in Nursing Organizations
- Health Policies and Their Impact on the Nursing Profession

Medical Laboratory Sciences

The Medical Laboratory Sciences Track represents one of the fundamental pillars of applied medical sciences, integrating basic medical sciences—including biochemistry, microbiology, immunology, and molecular biology—with modern clinical laboratory diagnostics.

This track aims to highlight the future of laboratory medicine in the era of digital transformation and Artificial Intelligence by exploring advanced biotechnology, smart laboratory automation, precision medicine, and big data analytics to support medical decision-making and improve healthcare quality.

The conference welcomes original research articles, applied studies, and systematic reviews addressing innovation in laboratory medicine, the integration of biomedical sciences with emerging technologies, laboratory quality management, digital documentation, and patient safety at local, regional, and international levels.

Recent scientific evidence has demonstrated that Artificial Intelligence, bioinformatics, and big data analytics have become essential components of modern laboratory medicine, significantly enhancing diagnostic accuracy while reducing laboratory errors.

Track 1: Advanced Clinical Chemistry and Biochemistry

- Integration of Clinical Biochemistry with Basic Medical Sciences for Laboratory Interpretation
- Biomarkers in Early Diagnosis and Precision Medicine
- Development of Diagnostic Enzymes and Proteins
- Intelligent Automation Systems in Clinical Chemistry Laboratories
- Advanced Spectroscopic and Chromatographic Techniques in Biomedical Analysis

Track 2: Microbiology and Molecular Diagnostics

- Molecular Basis of Infectious Diseases and Their Relationship with Medical Immunology
- PCR, RT-PCR, and Next-Generation Sequencing (NGS)

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- Molecular Genetics Applications in Genetic Disease and Mutation Detection
- Artificial Intelligence for Predicting Antimicrobial Resistance Patterns
- Rapid Outbreak Detection Using Microbiome Analysis

Track 3: Artificial Intelligence in Medical Laboratory Sciences

- AI Applications in Laboratory Result Analysis and Interpretation
- Clinical and Laboratory Decision Support Systems (CDSS)
- Machine Learning Models for Disease Prediction Based on Biomarkers
- Big Data Analytics in Biomedical Research
- Generative Artificial Intelligence in Laboratory Education and Training

Track 4: Laboratory Quality and Digital Documentation

- Total Quality Management (TQM) and ISO Standards in Medical Laboratories
- Laboratory Information Systems (LIS)
- ISO 15189 Accreditation and International Laboratory Standards
- Healthcare Data Protection and Information Security
- Internal and External Laboratory Auditing

Track 5: Biotechnology and Emerging Laboratory Innovations

- Nanotechnology Applications in Laboratory Diagnosis (Nanodiagnostics)
- Smart Laboratories and Robotic Automation
- Personalized Medicine and Advanced Genomic Analysis
- Point-of-Care Testing (POCT)
- Protein and Enzyme Engineering in Diagnostic Applications

Track 6: Education and Training in Medical Laboratory Sciences

- Virtual Simulation in Laboratory and Basic Medical Sciences Education
- Integration of E-learning with Practical Laboratory Skills
- Professional Competency Development for Laboratory Personnel
- Virtual Reality (VR) and Augmented Reality (AR) in Laboratory Education
- Competency-Based Education (CBE)

Track 7: Biosafety and Laboratory Risk Management

- Biosafety Principles and Biosafety Levels (BSL)
- Risk Assessment and Hazardous Biological Sample Management
- Prevention of Laboratory-Acquired Infections (LAIs)
- Emergency Preparedness and Response to Epidemics and Health Crises
- Chemical and Radiation Safety in Medical Laboratories

Track 8: Professional Ethics and Scientific Research in Laboratory Medicine

- Ethical Use of Artificial Intelligence in Laboratory Diagnosis
- Protection of Medical Data and Genetic Information Privacy
- Research Integrity and Prevention of Scientific Misconduct
- Legal Regulations Governing Digital Laboratories and Health Information
- Ethical Management of Biological Samples and Genetic Research

Physical Therapy and Rehabilitation

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The Physical Therapy and Rehabilitation Track focuses on the future of rehabilitation practice in the era of digital transformation by exploring Artificial Intelligence and smart technologies in assessment, treatment, and rehabilitation.

The conference welcomes original research, experimental studies, and systematic reviews that contribute to innovation in physiotherapy services, professional competency development, patient outcomes, and quality of life at local, regional, and international levels.

Track 1: Smart Physical Therapy and Digital Rehabilitation

- Clinical Decision Support Systems in Physical Therapy
- Electronic Documentation and Digital Patient Records
- Telerehabilitation and Remote Physical Therapy Services
- Smart Assistive Devices for Patient Monitoring and Rehabilitation

Track 2: Artificial Intelligence in Physical Therapy Practice

- AI Applications in the Assessment of Movement Disorders
- Predictive Models for Rehabilitation Outcomes and Recovery
- Robotic Rehabilitation Systems
- Generative Artificial Intelligence in Physical Therapy

Track 3: Physical Therapy for Acute and Critical Care

- Early Rehabilitation in Intensive Care Units
- Digital Monitoring of Motor and Respiratory Functions
- Management of Critically Ill and Polytrauma Patients
- Clinical Simulation in Physical Therapy Education

Track 4: Quality of Physical Therapy Services and Patient Safety

- Quality Indicators for Rehabilitation Services
- Patient Safety During Therapeutic Interventions
- Risk Management and Clinical Incident Reporting
- Clinical Audit and Continuous Professional Practice Improvement

Track 5: Physical Therapy Education and Simulation Training

- Virtual and Augmented Reality in Rehabilitation Education
- E-learning Platforms and Digital Educational Technologies
- Simulation Centers and Clinical Skills Laboratories
- Professional Competencies in the Digital Era

Track 6: Occupational Health and Well-being of Physical Therapists

- Occupational Stress and Burnout
- Mental Health Support in Healthcare Workplaces
- Workforce Retention Strategies
- Professional Resilience and Work-Life Balance

Track 7: Community-Based Physical Therapy and Primary Healthcare

- The Role of Physical Therapy in Health Promotion and Disease Prevention
- Home-Based Rehabilitation and Chronic Disease Management
- Rehabilitation for Older Adults, Women, and Children
- Patient Education and Shared Decision-Making

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Track 8: Professional Ethics and Leadership in Physical Therapy

- Ethical Practice in the Age of Artificial Intelligence
- Patient Privacy and Health Data Protection
- Leadership and Management in Rehabilitation Institutions
- Health Policies and Their Impact on the Physical Therapy Profession

Clinical Nutrition and Public Health

Clinical Nutrition and Public Health play a pivotal role in promoting individual and community health, preventing diseases, and improving quality of life. With the rapid advancement of digital technologies and health data analytics, these disciplines have become increasingly integrated, contributing to the development of effective nutritional interventions and evidence-based public health practices.

This conference aims to present the latest scientific developments and practical applications in clinical nutrition, therapeutic nutrition, public health, and digital technologies supporting nutritional care.

Conference Tracks

Track 1: Clinical and Therapeutic Nutrition

- Therapeutic nutrition programs and evaluation of their effectiveness.
- Nutrition in the prevention and management of chronic diseases.
- Nutrition across the lifespan and for special populations.
- Personalized Nutrition and targeted dietary interventions.
- Nutritional assessment and malnutrition indicators.

Track 2: Nutrition, Public Health, and Food Security

- Nutrition, public health, and quality of life.
- Food and nutrition security and their relationship to community health.
- Dietary behaviors and food consumption patterns.
- Nutrition education strategies and healthy lifestyle promotion.
- Sustainable nutrition and its role in supporting healthy food systems.

Track 3: Digital Transformation and Artificial Intelligence in Nutrition

- Behavioral nutrition data analysis and healthcare applications.
- Artificial Intelligence applications in clinical nutrition and public health.
- Smart applications for nutritional monitoring and community health.
- Digital devices and technologies for monitoring nutritional and health status.
- Big data and intelligent decision-support systems in nutrition.

Artificial Intelligence and Digital Transformation in Medical and Health Sciences

- ✓ Artificial Intelligence applications in early medical diagnosis.
- ✓ Machine learning and big data analytics in healthcare.
- ✓ AI-supported clinical decision-making.
- ✓ Medical robotics in surgery and healthcare delivery.

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- ✓ Digital transformation in hospitals and smart healthcare systems.
- ✓ Cybersecurity and protection of electronic health information.
- ✓ Artificial Intelligence–driven precision medicine.
- ✓ Virtual Reality (VR) and Augmented Reality (AR) in medical education and training.
- ✓ Internet of Things (IoT) applications in healthcare.
- ✓ Ethical considerations of Artificial Intelligence in healthcare.
- ✓ Artificial Intelligence for epidemic surveillance and public health.
- ✓ Intelligent systems for patient monitoring and home healthcare.
- ✓ Medical image analysis using deep learning techniques.
- ✓ Applications of ChatGPT and Large Language Models (LLMs) in medical education and scientific research.
- ✓ Artificial Intelligence in drug discovery and clinical trials.

Digital Innovation and Future Medicine

- ✓ Precision Medicine.
- ✓ Digital Twins in healthcare.
- ✓ Smart wearable medical devices.
- ✓ The future of smart hospitals.
- ✓ Generative Artificial Intelligence in medical education and biomedical research.

Anesthesia and Postoperative Care

- ✓ Medication safety during anesthesia.
- ✓ Smart physiological monitoring systems.
- ✓ Simulation-based anesthesia education and training.

Radiology and Medical Imaging

- ✓ Magnetic Resonance Imaging (MRI) and Computed Tomography (CT).
- ✓ Artificial Intelligence in medical image interpretation.
- ✓ Advanced imaging archiving and diagnostic systems.

Optometry and Vision Sciences

- ✓ Modern diagnostic technologies for eye diseases.
- ✓ Artificial Intelligence applications in vision assessment.
- ✓ Tele-optometry and remote vision care.

Dental Technology and Digital Dentistry

- ✓ Three-dimensional (3D) printing in dental prosthetics.
- ✓ CAD/CAM systems in digital dental design.
- ✓ Digital transformation in dental laboratories.

Aesthetic Medicine and Dermatological Therapies

- ✓ Advanced non-surgical aesthetic procedures.
- ✓ Artificial Intelligence in skin assessment and treatment planning.
- ✓ Reconstructive procedures and post-traumatic deformity management.

Public Health and Epidemiology

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- ✓ Artificial Intelligence–based early warning systems for epidemics.
- ✓ Statistical analysis of communicable and non-communicable diseases.
- ✓ Telemedicine in community healthcare.

Medical Innovation and Biomedical Manufacturing

- ✓ Three-dimensional bioprinting.
- ✓ Smart medical device design.
- ✓ Artificial Intelligence in clinical trials and pharmaceutical development.

Pharmacy and Clinical Pharmacy

- ✓ Clinical pharmacy and pharmaceutical care.
- ✓ Smart medication dispensing systems.
- ✓ Artificial Intelligence applications in medication prescribing and drug interaction monitoring.

Participant Benefits:

Conference participants will receive:

- An official Certificate of Participation jointly issued by Irbid National University (Jordan) and the Euro-Arab Organization for Environment, Water and Desert Research (EWDR).
- The Conference Proceedings Book containing all accepted abstracts.
- A conference bag and stationery package.
- Publication of accepted abstracts in the Conference Proceedings.
- Eligible full papers will be considered for publication in a Scopus-indexed (Q3) scientific journal following peer review and the journal's publication requirements.
- Continuous updates regarding conference activities, announcements, and scientific materials.

Submission Guidelines

- Submitted papers must fall within one of the conference themes.
- The work must not have been previously presented at another conference.
- Manuscripts must comply with internationally accepted scientific research standards.
- Abstracts must be prepared in Microsoft Word, using Times New Roman, 14-point font, in English, and should not exceed 250 words.
- Each abstract should include:
 - Title
 - Background and significance
 - Objectives
 - Methods (where applicable)
 - Results
 - Conclusions
 - Up to five keywords
- All submissions will undergo peer review by the Scientific Committee, and authors are expected to address reviewers' comments.

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- Abstracts should be submitted via email to: ewdr@ewdr.org

Official Conference Language: **English**

Important Dates

Date	Activity
1 October 2026	Deadline for Abstract Submission
10 October 2026	Notification of Abstract Acceptance
6 November 2026	Participant Registration & Opening Ceremony
7–8 November 2026	Scientific Sessions
9 November 2026	Free Cultural Day

Conference Registration Package

The registration fee includes:

- Certificate of Participation.
- Conference Proceedings (Abstract Book).
- Publication of accepted abstracts.
- Four nights' accommodation (five days) in a five-star hotel, based on shared double occupancy.
- Open buffet meals throughout the stay.
- Complimentary tea and coffee served throughout the day.

Participants requesting single-room accommodation will be charged an additional €150.

Registration Fee €550 per participant
(Includes accommodation in a shared double room.)

On line participation fee: €200

Contact Information

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