

22nd Emirates Critical Care Conference

*“From Evidence to Excellence:
The Future of Critical Care”*

Artificial Intelligence in Critical Care Course

 10 May 2026

 InterContinental Hotel
Dubai, UAE

Course Instructors



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**Conference Chairman:
Assoc. Prof. Dr. Hussain Al Rahma**

Objectives

- Understand core AI concepts and machine learning relevant to clinical practice
- Evaluate and implement AI tools safely
- Apply AI to ICU workflows and clinical decisions
- Use prompt engineering for documentation, research, and case analysis
- Critically assess AI accuracy, bias, and medico-legal implications
- Perform hands-on use of AI tools on real clinical cases

Target audience

- Intensivists
- Anesthetists
- Emergency Physicians
- Residents
- Cardiologists
- General Medicine

Course Registration Fees

Physicians & Non-Physicians | 750 AED

Register Now 

Day 3 - 10 May 2026, Sunday

08:30 - 09:00 Introduction to AI in Healthcare

Icebreaker: "Where do you already use AI in your daily life?"
Course overview
Pre-test (10 questions)

09:00 - 10:00 Module 1: Foundations of AI for Clinicians

Machine learning basics
Supervised vs. unsupervised learning
Deep learning
How models learn
Bias & dataset quality
ICU data challenges
Interactive quiz & group discussion

10:00 - 10:30 Module 2: AI Use Cases in Critical Care

AI in mechanical ventilation
Predictive analytics (e.g., early sepsis detection)
AI-driven vasospasm prediction (TCD)
Imaging AI (CXR/CT)
Lab interpretation (ABG, electrolytes)
Live demo: AI-based triage tool
Case simulation

10:30 - 10:45 Coffee Break

10:45 - 11:45 Module 3: Hands-on ICU Case Simulations

Participants rotate between 3 stations:
1. AI-powered ABG interpreter
2. AI for CXR/CT
3. Sepsis prediction model
Group Presentations

12:00 - 13:00 Lunch Break

13:00 - 14:00 Module 4: Prompt Engineering for Clinicians

Structure of clinical prompts
Safety structures
ICU resident teaching prompts
20 ICU prompt templates
Hands-on exercise: "Write a prompt to generate daily ICU progress note"

14:00 - 15:00 Module 5: Ethical, Legal & Safety Framework

AI hallucinations
Medico-legal responsibility
Transparency & explainability
UAE & international regulations
Case: "When AI gave wrong advice"
Debates:
"Should AI give diagnosis?"
"Should AI be allowed in documentation?"

15:00 - 16:00 Module 6: Building Your Own AI Clinical Tool (No Coding)

Use no-code platforms (templates provided)
Build a triage or risk-score assistant
Create:
Input variables
Logic
Output
In groups: create a mortality prediction tool for ICU

16:00 End of Course