

AI Applications in Healthcare: Benefits & Risks

Target Audience: Physicians, Nurses, Dentists, Pharmacists, Complimentary Medicine and Allied Health Practitioners

Monday, October 20th, 2025

Qatar University – College of Medicine (H12) – Room 125

Activity Accreditation Code: AGI-03-P197

Category 1 – Workshop – 3 CPD Credits

General Aim

The CPD activity aims to discuss the use of artificial intelligence (AI) enabled applications in healthcare and shed light on the potential benefits and risks of using such advanced technologies.

Overall Learning Objectives:

By the end of the CPD sessions participants should be able to:

- Describe examples of AI applications currently used in healthcare and differentiate between clinical, educational, administrative, and research applications.
- Explain the development process of medical AI applications and identify key validation and implementation stages
- Evaluate current evidence on AI effectiveness and safety in healthcare practice
- Identify the benefits and potential risks of AI applications such as AI-Enabled Radiology Imaging, AI-Assisted Surgical Robots, AI-Driven Predictive Patient Monitoring, AI-Based Medication Adherence Monitoring, Natural Language Processing (NLP), Large Language Models (LLMs) for Electronic Health Records (EHR).
- Explore the need for proper training, data security, and ethical considerations essential to harness the full potential of AI while ensuring patient safety and privacy
- Discuss legal and liability issues of AI-generated Medical Error

Speakers

- Dr Ali Barah, Senior consultant Radiologist, Chair of the Clinical Imaging Department at HMC
- Dr Muhammed Chowdhury, AI Developer, Associate Professor of Electrical Engineering, Qatar University
- Dr Susu Zughaier, AI in Medicine Instructor, Associate Professor of Microbiology, Qatar University

Activity schedule:

Time and Speakers	Schedule and Learning outcomes
3:30 PM - 4:00 PM	On-Site Registration
4:00-4:05	Welcome and Introduction
04:05-4:40 PM Q&A 5 min Dr Ali Barah	AI application in medical imaging LO: Introduce AI models used in medical imaging modalities and workflow
4:45-5:15 PM Dr Muhammad Chowdhury Q&A 5 min	A Roadmap to Developing Machine Learning Models in Healthcare LO: Demonstrate concepts and algorithms tools used to build medial AI applications
5:20-5:50 PM All participants with Dr Susu Zughaier	Clinical Cases Group Discussion (participants' hands-on) <u>LO</u> : Discuss AI use in clinical cases ethics and identify benefits & risks
5:50-6:10	Break
6:10-6:45 PM Dr Susu Zughaier Q&A 5 min	Benefits and risks of AI applications in healthcare <u>LO</u> : Identify the benefits and risks of medical AI applications
6:45-7:20 PM All Speakers	Conclusions and warp up with participants

** The scientific planning committee has reviewed all disclosed financial relationships of speakers, moderators, facilitators and/or authors in advance of this CPD activity and has implemented procedures to manage any potential or real conflicts of interest.*

"This activity is an Accredited group learning activity (Category 1) as defined by the Ministry of Public Health's Department of Healthcare Professions—Accreditation Section (DHP—AS) and is approved for a maximum number of 3 Hours."

"CPD-HP (QU Health) is accredited by the Ministry of Public Health's Department of Healthcare Professions - Accreditation Section (DHP – AS) as a provider of continuing professional development."