

ASPETAR WORLD CONFERENCE 2025

09th - 11th October 2025, Aspire Zone

ASPETAR
سبيتار

AGENDA

ARTIFICIAL INTELLIGENCE (AI) IN SPORTS MEDICINE: WORKSHOP

12 October 2025

#Aspetarcon25



Target Audience: Physicians, Nurses, Pharmacists, Dentists, Allied Health Practitioners, Others (Researchers, Sports Scientists, Coaches)

Activity code: HGI-03-P177

Venue: Aspetar Auditorium

Time: 13:00 – 16:00

Please note that this activity is offered as a part of the Aspetar World Conference 2025, therefore, you must be registered for the conference to be able to sign up for this workshop.

Overall Learning Objectives:

On completion of this activity, participants will be able to:

1. Define key concepts related to Artificial Intelligence and Generative AI in the context of sports medicine.
2. Explain the basic mechanisms of machine learning
3. Identify current applications of AI in diagnostics, remote monitoring, and injury risk management in sports medicine.
4. Describe the challenges and ethical considerations of implementing AI in clinical practice, including the need for human oversight and trustworthy AI principles.
5. Discuss future directions and potential of AI in transforming sports medicine research, education, and clinical care.

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 and is approved for a maximum of 2.5 credit hours.

Date & time	Topic	Session Learning Objectives By the end of this session, participants will be able to:	Speaker/ Facilitator
13:00 - 13:10	Introduction to AI in Sports Medicine	<ul style="list-style-type: none"> Identify key concepts in Artificial Intelligence (AI) Discuss how AI systems learn and process information 	Paul Dijkstra
13:10 - 13:20	What is Generative AI?	<ul style="list-style-type: none"> Define Generative AI and how it differentiates from other types of AI Discuss the role of Generative AI in Sports Medicine 	TBC
13:20 - 13:30	What is Machine Learning (including deep learning)?	<ul style="list-style-type: none"> Discuss the mechanisms behind Machine Learning, including the difference between 'classic' and 'deep' Machine Learning Differentiate between supervised and unsupervised Machine Learning 	Mohammed Farooq
13:30 - 13:45	Interactive discussion and Question & Answer		
13:45 - 14:00	Break		
14:00 - 14:05	Possible applications of AI in Sports Medicine - setting the scene	<ul style="list-style-type: none"> Identify the different applications of AI in the field of Sports Medicine Discuss the impact of AI on clinical practice and operational efficiency 	TBC

14:05 - 14:15	Application of AI in imaging	<ul style="list-style-type: none"> • Explain how AI can enhance the accuracy and efficiency of diagnostic processes • Recall real-world examples of how Artificial Intelligence is applied in diagnostic processes within Sports Medicine 	Marcelo Bordalo
14:15 - 14:25	Training monitoring and AI (wearables)	<ul style="list-style-type: none"> • Discuss how AI tools gather data from wearable devices • Discuss the role of AI in monitoring athletic load 	Marco Cardinale
14:25 - 14:35	AI in education - Aspetar examples	<ul style="list-style-type: none"> • List AI technologies that have been implemented in educational initiatives at Aspetar • Evaluate the role of AI in medical education, professional development, and patient education 	Roula Kotsifaki
14:35 - 14:45	Ethical principles of trustworthy artificial intelligence	<ul style="list-style-type: none"> • Explain the ethical principles behind trustworthy AI as outlined by the EU High-Level Expert Group • Evaluate the challenges and limitations of AI in Sports Medicine 	TBC
14:45 - 15:00	Interactive discussion and Question & Answer		
15:00 - 15:15	Break		

15:15 – 15:25	How to read a paper on AI in healthcare (appraising AI in healthcare papers)	<ul style="list-style-type: none"> • Identify appropriate reporting guidelines and checklists used for appraising AI papers in healthcare • List 10 questions to ask when reading a paper on AI in healthcare 	Paul Dijkstra
15:25 – 15:45	Using AI in research – a practical approach	<ul style="list-style-type: none"> • Describe how AI can be applied to various stages of the research process • Evaluate the benefits and limitations of using AI in research 	Mohammed Farooq, Marco Cardinale
15:45 – 16:00	Interactive discussion and Question & Answer		

Scientific Planning Committee:

Paul Dijkstra (Chair), Marco Cardinale, Ibrahim Al Hussein, Zainab Al Sarraf, Marcelo Bordalo, Roula Kotsifaki, Mohammed Farooq, Chloe Anne Reeves, Jolanda Boersma

The Scientific Planning Committee has reviewed all disclosed financial relationships of speakers, moderators, facilitators and/or authors in advance of the CPD activity and has implemented procedures to manage any potential or real conflicts of interest.

Overall time: 150 min: Lecture: 105 min; interactive: 45 min (30%)