

# Using Ultrasound and AI in Obstetrics



Webinar Series  
Friday 24<sup>th</sup> October  
2025

1. Title: Using Ultrasound and AI in Obstetrics
2. Lead Chairs: Asma Khalil and Aris Papageorgiou
3. Invited speakers and country:
  - a. Asma Khalil (UK)
  - b. Aris Papageorgiou (UK)
  - c. Mar Gil (Spain)
  - d. Ja-Young Kwon (South Korea)

## Learning Objectives:

- Describe the current and emerging impact of artificial intelligence (AI) on obstetrical ultrasound practice, including its potential to enhance diagnostic accuracy and workflow efficiency.
- Explain how AI can support first and second trimester ultrasound scans, particularly in the areas of fetal biometry and aneuploidy screening.
- Identify key strategies and tips for performing fetal heart examinations using AI assistance, and recognize how AI tools can help detect congenital heart anomalies.
- Evaluate the role of 3D ultrasound in assessing fetal brain anomalies, and compare its utility with 2D imaging and AI-enhanced methods.
- Engage in interdisciplinary discussion to critically analyze the integration of AI in prenatal imaging, considering clinical, ethical, and technological perspectives.

Time	Mins	Item	Speaker – Prefix, full name
12:00	5	Welcome and Introduction	Asma Khalil, Aris Papageorgiou
12:05	20	AI impact in obstetrical ultrasound scans	Aris Papageorgiou (UK)
12:25	20	AI assisted first and second trimester scan – biometry and screening	Asma Khalil (UK)
12:45	20	Fetal heart examination assisted by AI – tips and tricks	Mar Gil (Spain)
13:05	20	Do we need 3D ultrasound in the assessment of fetal brain anomalies?	Ja-Young Kwon (South Korea)
13:25	30	Panel discussion, Q&A	All faculty
13:55	5	Feedback and close	Asma Khalil, Aris Papageorgiou

Please note that this is a provisional schedule subject to change.

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