Digitalisation and AI in Orthopaedics & Traumatology (series): Translating Applications of Artificial Intelligence into clinic and research

Monday 31 August 2026 | 19:00-20:00 CEST

Chairs

Bernd GRIMM, PhD | Luxembourg Institute of Health, Dept. Precision Health, Luxembourg
Martin Breitwieser, MD, PhD | Paracelsus Medical Private University Salzburg, Austria

Scientific Programme

On Monday 31 August at 19:00 CEST, this EFORT Educational Webinar, organised by the EFORT Education committee's Basic Research Group (BRG), will address the following topics:

19:00-19:05	**Introduction** **Bernd Grimm** | Luxembourg Institute of Health, Dept. Precision Health, Luxembourg **Martin Breitwieser, MD, PhD** | Paracelsus Medical Private University Salzburg, Austria
19:05-19:20	**The state of AI in orthopaedic trauma.** **Prof. Meir Marmor, MD, PhD** | University of California San Francisco Parnassus Campus, San Francisco, California, USA
19:20-19:35	**Insights from *OTdigital 2026*, Europe's congress for digitalisation in orthopaedics and traumatology.** **Prof. David Back, MD, PhD** | Charité Berlin (Germany)
19:35-19:50	**Will AI replace the orthopaedic surgeon?** *Pending confirmation*
19:50-20:00	**Discussion and Summary** | All Faculty and Webinar audience

EFORT Webinar
Monday 23 February 2026 | 19:00–20:00 CET

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Learning Objectives

How is Artificial Intelligence reshaping the daily reality of Orthopaedics and Traumatology?

Artificial Intelligence (AI) is no longer a futuristic concept—it is actively transforming clinical decision-making, surgical workflows, and data-driven orthopaedic research. As part of our ongoing Digitalisation and AI in Orthopaedics & Traumatology series, this specialised webinar bridges the gap between complex technological theory and practical, real-world application.

The objectives of this Webinar are:

- **Evaluate the Clinical Utility of AI in Trauma**: Understand how AI algorithms are currently being applied to enhance diagnosis, fracture classification, predictive outcome modelling and other applications in orthopaedic trauma practice and research.

- **Analyse European Digitalisation Trends**: Synthesize the latest insights into, technologies, research, clinical translation, implementation and the regulatory environment emerging from the *OTdigital 2026* congress to stay ahead of the curve about digital healthcare technology adoption in orthopaedics and traumatology.

- **Appraise the Human versus (or with) Machine Paradigm**: Critically assess the evolving relationship between AI-driven automation and surgical human expertise and skill, identifying how AI acts as an augmentation tool and supportive agent rather than a replacement but reshaping the future of the profession.

- **Engage in Translational Dialogue**: Formulate approaches to effectively bridge technological AI applications from bench to bedside (and back), fostering collaboration between data scientists, engineering researchers and frontline orthopaedic clinicians ensuring patient-centred adoption of digital technologies and AI.

Disclaimer: This Webinar is organised by EFORT independent of any commercial educational support.

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