



EUROPEAN STROKE
ORGANISATION

Committee Report 2025

Artificial Intelligence Committee

Rome, 23rd January 2026

Report of the ESO Committees - Summary

Artificial Intelligence Committee

- **Pietro Caliandro, Italy (Chair)**
- Carlos Molina, Spain
- Luigi Serio, Switzerland
- Olfa Kaaouana, France
- Rajiv Advani, Norway
- Robin Lemmens, Belgium
- Smriti Agarwal, UK
- Tatiana Kharitonova, Russia

Report of the Artificial Intelligence Committee

Meetings

- 21th May 2025 ESO COMMITTEE ROOM (206) Messukeskus Helsinki Expo and Convention Centre Discussion on:
 - Organization of educational and scientific events,
 - New members
 - Topics to propose for ESOC 2026 (see attached files)
- 21th November 2025 (in person meeting with some member in Garmisch): Discussion on the progression of a position paper to be proposed to the Executive Committee

Report of the Artificial Intelligence Committee

Educational activities

ESO EDUCATIONAL WEBINARS – Episode #19

Artificial Intelligence and Stroke Management



Dr. Giuseppe Reale
Fondazione Policlinico
Universitario Agostino Gemelli
IRCCS, Italy



Dr. Carlos Molina
Vall d'Hebron Hospital Campus,
Spain

28 January 2025
18:30-19:30 CET



EDUCATIONAL
WEBINARS

ESO EDUCATIONAL WEBINARS – Episode #22

Artificial Intelligence Applications in Stroke



Prof. Bruce Campbell
Royal Melbourne Hospital,
Australia



Prof. William Whiteley
University of Edinburgh,
UK

29 April 2025
12:00-13:00 CEST



EDUCATIONAL
WEBINARS

Report of the Artificial Intelligence Committee

Contributions to ESOC 2025

- AI-Powered Digital Twin for Individual Outcome Prediction in Acute Ischemic Stroke: from Granular Data to Brain Networks (Speaker Pietro Caliandro Wednesday, 21 May, 18:12 - 18:30 EEST)
- Trustworthy AI solutions for boosting comprehensive data integration, analytics and decision-making in stroke (Speaker Carlos Molina Thursday, 22 May, 16:12 - 16:30 EEST)
- What are your thoughts for the treatment of this chronic subdural haematoma? Views of the neurologist (Speaker Rajiv Advani Thursday, 22 May, 17:36 - 17:54 EEST)
- Inside the penumbra: understanding pathophysiology, imaging technique, and the association with clinical outcome (Speaker Robin Lemmens Friday, 23 May, 08:30 - 08:48 EEST)
- ESOTA and GAINS on collaboration in stroke trials (Smriti Agarwal and Pietro Caliandro to promote collaboration)

Report of the Artificial Intelligence Committee

Contributions to WSO 2025

- TRANSFORMING STROKE CARE WITH AI AND GENERATIVE AI (Speaker *Carlos Molina* Wednesday, *Thu, 23.10.2025*)
- ETHICAL CHALLENGES AND RESPONSIBLE USE OF AI AND GENERATIVE AI (Speaker *Smriti Agarwal* *Thu, 23.10.2025*)
- GADOLINIUM LEAKAGE INTO OCULAR STRUCTURES (GLOS) AND HYPERINTENSE ACUTE REPERFUSION MARKER (HARM) IN ACUTE ISCHEMIC STROKE (Speaker *Robin Lemmens* *Thu, 23.10.2025*)

Report of the Artificial Intelligence Committee

Contributions to the 8th European Stroke Science Workshop-Garmisch

- Key note debate: AI in stroke care will always need to be supervised by human intelligence: FOR (Speaker *Carlos Molina Sat, 22.11.2025*)
- Key note debate: AI in stroke care will always need to be supervised by human intelligence: AGAINST (Speaker *Pietro Caliandro Sat, 22.11.2025*)

Report of the Artificial Intelligent Committee

Contributions to the Joint ESMINT-ESO Webinar: Highlights from the ESMINT Congress

- Subdural haemorrhage – who needs what and when? (Speaker *Rajiv Advani* Mon, 06.10.2025)

Report of the Artificial Intelligent Committee

Ongoing Scientific projects

- Trustworthy prediction of stroke outcome on a federated learning infrastructure – TRUSTROKE
- Unleashing a CoMprehensive, Holistic and Patient Centric Stroke Management for a Better, Rapid, AdvancEd and PersonaLised Stroke Diagnosis, TreAtment and Outcome Prediction-UMBRELLA
- TIRESIA: Digital Twin, Immunity, and microRNA in the Evolution of Stroke In the Acute phase
- Stroke artificial Intelligence-Based avatar to predict IndividuaL outcomes and taiLor clinical Approach. The SIBILLA project