

SCIENTIFIC WEBINAR



September, 13th 2025
13:00h CET
Platform: ZOOM
FREE REGISTRATION

TES-MEP in Horses and Humans: Complementary Roles of Supportive Systems and Pyramidal Tract and TES Models

Moderators

Kathleen Seidel (Switzerland)
Members of webinar task force



Speakers



Sanne Journee
The Netherlands



Louis Journee
The Netherlands

Panelists



Stephen Reed
USA



Yvette S. Nout-Lomas
USA



Stanley Skinner
USA



Maria J. Tellez
USA

Objective:

To explore fundamental physiological differences between the motor systems of horses and humans, with the aim of examining how these differences affect the intraoperative neuromonitoring (IONM) of motor pathways in humans.

Expected educational outcomes:

- Compare neuroanatomical and neurophysiological differences between human and equine motor systems and their implications for MEP monitoring.
- Describe the methodological challenges in using TES in large animals and their parallels in human IONM.
- Identify models of TES in terms of stimulation depth, electrode stability, and reproducibility.
- Recognize extracranial versus transcranial MEP components and implement intensity-stepped stimulation protocols to avoid misinterpretation during IONM.

AGENDA (CET time)

13.00-13.05	Welcome Kathleen Seidel	14.00-14.25	Comparative TES models and translational implications for MEP monitoring of humans Louis Journee
13.05-13.10	Speakers and panelists introduction by Task Force members	14.25-14.40	Speakers and panelists' discussion
13.10-13.35	Fundamental physiological differences between the motor systems of horses and humans Sanne Journee	14.40-14.50	Open Q&A moderated by Task Force members
13.35-13.50	Speakers and panelists' discussion	14.50-14.55	Closing remarks Kathleen Seidel
13.50-14.00	Open Q&A moderated by Task Force members		