

TIVA/TCI and EEG monitoring: Theoretical and hands-on workshop

This workshop is oriented to the learning and use of basic and advanced principles of Total Intravenous Anesthesia with Target Controlled Infusion titrated with peri-operative use of raw and spectral analysis of the EEG.

We use a two-steps mixed approach from an initial theoretical module to a hands-on practical module with TivaTrainer simulation software, Fresenius Kabi TCI pumps and “Anesthesia” monitor of EEG (SedLine-Root monitor).

Topics to be addressed in this two hours workshop will be:

1. Basic and advanced pharmacology of intravenous anesthetic drugs (propofol, opioids, dexmedetomidine, ketamine)
2. Pharmacokinetic /pharmacodynamic models
3. TCI: basic principles and tips & tricks for a good practice
4. EEG: neurophysiological foundations and spectral analysis
5. TIVA/TCI management and clinical dosing titration with EEG: clinical cases