

## **T.C.I. – T.I.V.A. CASE STUDY WITH HUMAN BODY SIMULATOR**

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TCI-TIVA requires a special knowledge of pharmacology of the used drugs, especially if combinations of opiates and Propofol are used. Additive effects have to be taken into account and these effects cannot be handled by the TCI pump itself. We present a Human Patient Simulator (HPS), a TIVA- TCI pump system with at least 2 pumps for Propofol and Remifentanyl and as a result of the drug effect a model that generates a realistic EEG Pattern for the Aspect BIS-Monitor. The pumps and the BIS-Monitor are directly interfaced to the simulator software. This will result in very realistic feelings regarding the course of the TIVA. We will present several cases of young and healthy patients as well as patients at risk of over dosage of intravenous drugs. Participants will use the TCI system with the BIS to titrate the anaesthetic effects to the individual needs of the simulated patients.