

# Can we simplify Propofol administration using one model?



**Date:** Tuesday, May 3<sup>rd</sup> 2022, 8:30am - 10:00am. CS19 - Perioperative Medicine Session.

**Presenter:** Professor Michel Struys leads the Department of Anaesthesiology at the University of Groningen and the University Medical Center Groningen in Groningen, Netherlands. He is also a professor at Ghent University in Belgium, with research interests covering clinical pharmacology of intravenous and inhaled drugs used in anaesthesia, neuroscience, pharmacological modelling and drug administration techniques. Professor Struys is also one of the authors involved with the Eleveld Model for Target - Controlled Infusion (TCI).

**Abstract:** Many Anaesthetists interested in intravenous anaesthesia will be aware of the various pharmacokinetic (PK) models for Propofol such as Schnider, Marsh, Kataria and Paedfusor.

The advent of the Eleveld Targeted Control Infusion (TCI) model gives clinicians new possibilities to optimise dosing across broader clinical situations, from neonates to the elderly and high Body Mass Index (BMI) individuals. More importantly, this is achieved whilst maintaining stable and predictable concentrations.

## The purpose of this session is to:

1. Understand the kinetics and the demographic support behind the model, as well as its limitations
2. Explain the impact of adjustments for covariates, including the presence or absence of opioids
3. Ensure differences between Eleveld, Schnider and Marsh TCI models are understood
4. Provide case study scenarios, including use in paediatrics and obese patients

This session is aimed for all levels of Total Intravenous Anaesthesia (TIVA) users, including those interested in TCI. It will be suited for those interested in pharmacokinetic-pharmacodynamic (PK-PD) models.

**Please note:** This is a BD sponsored, pre-recorded session that will be presented virtually on the day. It will be available for both in-person audiences, as well as via the ANZCA virtual conference platform. The recording will remain available on demand for up to twelve months post the meeting.

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