

### List of Representative Publications:

1. Ashraf W, Poikola S, Neuvonen M, Kiiski JI, Kontinen V, Olkkola K, Backman JT, Niemi M, **Saari TI**. Population pharmacokinetic quantification of CYP2D6 activity in codeine metabolism in ambulatory surgical patients for model-informed precision dosing. Clin Pharmacokinet. 2024 Nov;63(11):1547-1560. doi: 10.1007/s40262-024-01433-9
2. Brinck E, \*Virtanen T, Mäkelä S, Soini V, Hynninen V-V, Mulo J, Savolainen U, Rantakokko J, Maisniemi K, Liukas A, Olkkola KT, Kontinen V, Tarkkila P, Peltoniemi M, **Saari TI**. S-ketamine in patient-controlled analgesia reduces opioid consumption in a dose-dependent manner after major lumbar fusion surgery: a randomized, double-blind, placebo-controlled clinical trial. PLoS One. 2021 Jun 7;16(6):e0252626.
3. Li X, Frechen S, Moj D, Lehr T, Taubert T, Hsin C-H, Mikus G, Neuvonen PJ, Olkkola KT, **Saari TI**, Fuhr F. A Physiologically-Based Pharmacokinetic Model of Voriconazole Integrating Auto-inhibition, Genetic Polymorphisms of CYP2C19 and Predictions of Drug-Drug Interactions. Clin Pharmacokin, 59: 781-808, 2020.
4. Uusalo P, Guillaume S, Siren S, Manner T, Vilo S, Scheinin M, **Saari TI**. Pharmacokinetics and sedative effects of intranasal dexmedetomidine in ambulatory paediatric patients. Anesth Analg. 130:949-57, 2020.
5. Ashraf MW, Peltoniemi MA, Olkkola KT, Neuvonen PJ, **Saari TI**. Semimechanistic Population Pharmacokinetic Model to Predict the Drug-Drug Interaction Between S-ketamine and Ticlopidine in Healthy Human Volunteers. CPT Pharmacometrics Syst Pharmacol. 7:687-697, 2018
6. Peltoniemi MA, Hagelberg NM, Olkkola KT, **Saari TI**. Clinical Pharmacokinetics and pharmacodynamics of ketamine. Clin Pharmacokin, 55:1059-77, 2016.
7. Jeleazcov C, **Saari TI**, Ihmsen H, Fechner J, Schwilden H, Schüttler J. Population pharmacokinetic modeling of hydromorphone in cardiac surgery patients during postoperative pain therapy. Anesthesiology. 120:384-391, 2014.
8. **Saari TI**, Fechner J, Ihmsen H, Schüttler J, Jeleazcov C. Determination of total and unbound sufentanil in human plasma by ultrafiltration and LCMS/MS: Application to clinical pharmacokinetic study. J Pharm Biomed Anal. 66:306–13. 2012.
9. **Saari TI**, Ihmsen H, Neuvonen PJ, Olkkola KT, Schwilden H. Oxycodone clearance is markedly reduced with advancing age. A population pharmacokinetic study. Br J Anaesth. 108:491-8, 2012.
10. **Saari TI**, Laine K, Leino K, Valtonen M, Neuvonen PJ, Olkkola KT. Effect of voriconazole on the pharmacokinetics and pharmacodynamics of intravenous and oral midazolam. Clin Pharmacol Ther. 79:362–70, 2006.