

1. Datos de Contacto:

Nombre: Luis Ignacio Cortínez Fernández
Cargo académico: Profesor Asociado ,
Departamento o División: Anestesiología
Mail: licorti@med.puc.cl
Anexos:3270

2. Líneas de Investigación:

Farmacología Clínica.

Farmacometría, análisis poblacionales farmacocinéticos y farmacodinámicos de drogas anestésicas. Desarrollo de modelos farmacocinéticos y farmacodinámicos.

Anestesia intravenosa

Monitorización de profundidad anestésica.

3. Proyectos de Investigación:

Development of Integrated Pharmacokinetic (PK) Pharmacodynamic (PD)

Models to Administer Intravenous Anesthetics in Obese Patients (Fondecyt Regular 2012)

The Effect of Obesity in Dexmedetomidine Metabolic Clearance (Fondecyt 2015)

4. Publicaciones:

Sepúlveda PO, Cortínez LI, Recart A, Muñoz HR. Predictive ability of propofol effect-site concentrations during fast and slow infusion rates. *Acta Anaesthesiol Scand.* 2010 Apr;54(4):447-52.

Cortínez LI, Anderson BJ, Penna A, Olivares L, Muñoz HR, Holford NH, Struys MM, Sepulveda P. Influence of obesity on propofol pharmacokinetics: derivation of a pharmacokinetic model. *Br J Anaesth.* 2010;105(4):448-56.

Cortínez LI, Gambús P, Trocóniz IF, Echevarría G, Muñoz HR. Obesity Does Not Influence the Onset and Offset of Sevoflurane Effect as Measured by the Hysteresis Between Sevoflurane Concentration and Bispectral Index. *Anesth Analg.* 2011 May 19. [Epub ahead of print]

Sepúlveda P, Cortínez LI, Sáez C, Penna A, Solari S, Guerra I, Absalom AR. Performance evaluation of paediatric propofol pharmacokinetic models in healthy young children. *Br J Anaesth.* 2011;107:593-600

Echevarría G, Elgueta F, Fierro C, Buggedo D, Faba G, Iñiguez-Cuadra R, Muñoz HR, Cortínez LI. Nitrous oxide (N₂O) reduces postoperative opioid-induced hyperalgesia after remifentanyl-propofol anaesthesia in humans. *Br J Anaesth.* 2011;107(6):959-65

Altermatt FR, Bugedo DA, Delfino AE, Solari S, Guerra I, Muñoz HR, Cortínez LI. Evaluation of the effect of intravenous lidocaine on propofol requirements during total intravenous anaesthesia as measured by bispectral index. *Br J Anaesth.* 2012;108:979-83

Elgueta MF, Echevarría GC, De la Fuente N, Cabrera F, Valderrama A, Cabezón R, Muñoz HR, Cortínez LI. Effect of intravenous fluid therapy on postoperative vomiting in children undergoing tonsillectomy. *Br J Anaesth.* 2012 Dec.

Echevarría GC, Elgueta MF, Donoso MT, Bugedo DA, Cortínez LI, Muñoz HR. The effective effect-site propofol concentration for induction and intubation with two pharmacokinetic models in morbidly obese patients using total body weight. *Anesth Analg.* 2012 Oct;115(4):823-9.

Altermatt FR, Bugedo DA, Delfino AE, Solari S, Guerra I, Muñoz HR, Cortínez LI. Evaluation of the effect of intravenous lidocaine on propofol requirements during total intravenous anaesthesia as measured by bispectral index. *Br J Anaesth.* 2012 Jun;108(6):979-83.

Chalkiadis GA, Abdullah F, Bjorksten AR, Clarke A, Cortínez LI, Udayasiri S, Anderson BJ. Absorption characteristics of epidural levobupivacaine with adrenaline and clonidine in children. *Paediatr Anaesth.* 2013 Jan;23(1):58-67.

De la Fuente NF, Puga VA, Cortínez LI, Muñoz HR. The effective effect-site propofol concentration for induction in morbidly obese patients using total body weight with a new pharmacokinetic model. *Anesth Analg.* 2013;117:283-4. (Letter)

A General Purpose Pharmacokinetic Model for Propofol. Eleveld DJ, Proost JH, Cortínez LI, Absalom AR, Struys MM. *Anesth Analg.* 2014

Cortínez LI. What is the ke_0 and what does it tell me about propofol? *Anaesthesia.* 2014 May;69(5):399-402. (Editorial)

Cortínez LI, De la Fuente N, Eleveld DJ, Oliveros A, Crovari F, Sepulveda P, Ibacache M, Solari S. Performance of propofol target-controlled infusion models in the obese: pharmacokinetic and pharmacodynamic analysis. *Anesth Analg.* 2014 Aug;119(2):302-10

Cortínez LI, De la Fuente N, Eleveld DJ, Oliveros A, Crovari F, Sepulveda P, Ibacache M, Solari S. Performance of propofol target-controlled infusion models in the obese: pharmacokinetic and pharmacodynamic analysis. *Anesth Analg.* 2014;119(2):302-10

Delfino AE, de la Fuente N, Echevarría GC, Altermatt FR, Cortínez LI. Effect of acute arterial hypertension on morphine requirements and postsurgical pain. *J Clin Anesth.* 2015 May;27(3):226-32.

Ibacache ME, Muñoz HR, Fuentes R, Cortínez LI. Dexmedetomidine-ketamine combination and caudal block for superficial lower abdominal and genital surgery in children. *Paediatr Anaesth*. 2015 May;25(5):499-505.

Cortínez LI, Anderson BJ, Holford NH, Puga V, de la Fuente N, Auad H, Solari S, Allende FA, Ibacache M. Dexmedetomidine pharmacokinetics in the obese. *Eur J Clin Pharmacol*. 2015 Sep 26.