ASA ABSTRACTS

Drugs Disposition: Drug Disposition & Malignant Hypothermia

A-518  Room H, 10/16/2000 9:00 AM - 11:00 AM (PS)
Prospective Validation of the Context Sensitive Half Times for Propofol
Matthew T. Chan, FANZCA; P.T. Chu, FANZCA; Y.H. Tam, M Phil; Tony Tin, MD, Anaesthesia and Intensive Care, Chinese University of Hong Kong, Hong Kong. The calculated context sensitive half times for propofol closely predicts the actual decline of plasma concentration.

A-519  Room H, 10/16/2000 9:00 AM - 11:00 AM (PS)
A Pilot Study of Oral Transmucosal Etomidate in Volunteers
Talmage D. Egan, M.D.; Carl Roland, Pharm.D.; Julia L. White, RN,BS; Mason A. Gay, BS; Steven E. Kern, Ph.D., Department of Anesthesiology, University of Utah, Salt Lake City, UT, United States. We studied the relative bioavailability of OTS-Etomidate in a group of 12 volunteers as a proof of concept study for providing sedation with the OTS product.

A-520  Room H, 10/16/2000 9:00 AM - 11:00 AM (PS)
In-Vivo Effects of the Serotonin-2 Receptor Agonist DOI on Anesthetized Swine Susceptible for Malignant Hyperthermia
Marko Fiege, MD; Frank Wappner, MD; Jens Scholz, MD; Ralf Weissborn, MD; Jochen Schulte am Esch, MD, Department of Anesthesiology, University Hospital Eppendorf, Hamburg, Germany. MH-typical reactions to DOI in malignant hyperthermia susceptible swine are stress-independent.

A-521  Room H, 10/16/2000 9:00 AM - 11:00 AM (PS)
Pharmacokinetics of TCI-Propofol in Parkinson's Disease Patients Undergoing Sub-Thalamic Deep Brain Stimulation Implantation
Pedro L. Gamo, MD; Inält F. Troconiz, PhD; Ricardo Valero, MD; Enrique Carrero, MD; Neus Fabregas, MD, Anesthesiology, Hospital Clinic, Univ. Barcelona, Barcelona, Spain. Propofol TCI kinetic model is less accurate and is biased for sedation of Parkinson patients.

A-522  Room H, 10/16/2000 9:00 AM - 11:00 AM (PS)
Preoperative β-Blockade Has a Protective Effect on Epinephrine-Induced Myocardial Ischemia in Patients Undergoing Coronary Surgery
Michael Gunnicker, MD; Michael T. Nosch, MD; Goran Pavliakovic, MD; Matthias Brinkmann, MD, Dept. of Anesthesiology and Intensive Care Medicine, Otto von Guericke University, Magdeburg, Germany. β-blockade avoids myocardial lactate generation after epinephrine.

A-523  Room H, 10/16/2000 9:00 AM - 11:00 AM (PS)
Lack of Involvement of CYP2B and C2C in the Metabolism of Midazolam: Kinetic Analysis and Inhibition Study with Monoclonal Antibodies
Naoya Hamakoa, Yutaaka Oda; Ichiro Hase; Tatsuo Nakamoto; Akira Asada, Anesthesiology and Intensive Care Medicine, Osaka City University, Osaka, Japan. Cytochrome P450 2B and C2C are not involved in the metabolism of midazolam.

A-524  Room H, 10/16/2000 9:00 AM - 11:00 AM (PS)
Noninvasive Estimation of the Recirculatory Pharmacokinetics of a Marker of the Intravascular Space during Liver Transplantation
Thomas K. Henlborn, MD; Susan Mandell, MD, Ph.D, Anesthesiology and Pharmaceutical Sciences, University of Colorado Health Sciences Center, Denver, CO, United States. The peripheral circulation with the long mean transit time consists largely of the splanchic circulation.

A-525  Room H, 10/16/2000 9:00 AM - 11:00 AM (PS)
Evidence That the Fentanyl Blood-Brain Barrier-Transporter is pKa-Specific
Thomas K. Henlborn, MD; Xiangdong Yan, PhD; Lawrence Ng, PhD, Anesthesiology and Pharmaceutical Sciences, University of Colorado Health Sciences Center, Denver, CO, United States. The active transport of fentanyl into brain endothelial cells is more potent inhibited by basic drugs than by acidic drugs.

A-526  Room H, 10/16/2000 9:00 AM - 11:00 AM (PS)
The Effects of Propofol on Platelet Aggregation
Hideo Hirakata, MD, Masami Sagabara, MD; Kazuhiko Fukuda, MD, Anesthesiology, Kyoto University Hospital, Kyoto, Japan. Propofol and Diprivan® have different effects on platelet aggregation and IP formation, although Intralipid® did not affect platelet IPα formation.

A-527  Room H, 10/16/2000 9:00 AM - 11:00 AM (PS)
Influence of Sufentanil Concentration on Propofol Requirement and Recovery Times during Thyroid Surgery
Malik Hujjani, MD; Elisabeth Henrogen, MD; Florent Capron, MD; Jean-Marc Ropers, Valerie Billard, MD, Anesthésie, Institut Gustave Roussy, Villejuif, France.

A-528  Room H, 10/16/2000 9:00 AM - 11:00 AM (PS)
Pharmacokinetics of Liposomal Δ9-Tetrahydrocannabinol (THC) Delivered through the Lungs
Orlando R. Hung, MD; Pang Shek, Ph.D.; Peter Tikuisis, Ph.D.; Jiri Zamecnik, Ph.D., Anesthesia, Dalhousie University, Halifax, Nova Scotia, Canada.

A-529  Room H, 10/16/2000 9:00 AM - 11:00 AM (PS)
Effects of Parecoxib, a Parenteral COX-2 Specific Inhibitor, on the Disposition of Midazolam
Andra Ibrabim, MD; Aziz Karim, Ph.D; Jennifer Feldman, BS; Evan Khurasch, MD, Ph.D, Anesthesiology, University of Washington, Seattle, WA, United States.

A-530  Room H, 10/16/2000 9:00 AM - 11:00 AM (PS)
Effects of Parecoxib, a Parenteral COX-2 Specific Inhibitor, on the Disposition of Propofol
Andra Ibrabim, MD; Sang Park, Ph.D; Jennifer Feldman, BS; Evan Khurasch, MD, Ph.D, Anesthesiology, University of Washington, Seattle, WA, United States.

A-531  Room H, 10/16/2000 9:00 AM - 11:00 AM (PS)
The Elimination of Alfentanil Is Decreased by Propofol
Harald Ibsen, M.Sc.; Sven Albrecht, M.D.; Jorg Fechner, M.D.; Werner Herling, M.D.; Jurgen Schuller, M.D, Department of Anesthesiology, University of Erlangen-Nuremberg, Erlangen, Germany. Pharmacokinetics of alfentanil during TIVA with propofol was studied in 20 patients. Clearance of alfentanil was reduced by 58%.

A-532  Room H, 10/16/2000 9:00 AM - 11:00 AM (PS)
PK/PD Analysis of Etomidate Given across the Buccal Mucosa
Steven E. Kern, Ph.D.; Carl Roland, Pharm.D.; Julia L. White, RN,BS; Mason A. Gay, BS; Talmage D. Egan, M.D., Department of Anesthesiology, University of Utah, Salt Lake City, UT, United States. We studied the kinetics and dynamics of a transmucosal etomidate in volunteers using multiple arterial blood samples, the OAAS score and the BIS index.

A-533  Room H, 10/16/2000 9:00 AM - 11:00 AM (PS)
Intracranial Metabolism and Toxicity of Methoxyflurane
Evan D. Khurasch, MD, Ph.D; Richard A. Zager, MD; Candy Hsieh, BS; Eric Flamoe, BS, Anesthesiology, University of Washington, Seattle, WA, United States.