ASA ABSTRACTS

Drug 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 Gin, 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 Fejer, MD; Frank Wappler, MD; Jens Scholz, MD; Ralf Weisborn, MD; Jochen Schulte am Esch, MD, Department of Anesthesiology, University Hospital Eppendorf, Hamburg, Germany. M3-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. Gambou, MD; Inalut F. Troczutz, PhD; Richard 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 Gumbert, MD; Michael T. Nosch, MD; Goran Pavlikovic, MD; Matthias Brinkmann, MD, Dept. of Anesthesiology and Intensive Care, University Hospital, Essen, 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 CYP2C in the Metabolism of Midazolam: Kinetic Analysis and Inhibition Study with Monoclonal Antibodies  Naoya Hamaoka; Yutaka Oda; Ichiro Hase; Tatsu Nakamoto; Akira Asuda, Anesthesiology and Intensive Care Medicine, Osaka City University, Osaka, Japan. Cytochrome P450 2B and 2C 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. Henborn, MD; Susan Mandell, MD, Ph.D, Anesthesiology and Pharmaceutical Sciences, University of Colorado Health Sciences Center, Denver, CO, United States. The peripheral circuit with the long mean transit time consists largely of the splanchnic 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. Henborn, MD; Xiaodong Yan, PhD; Lawrence Ng, Ph.D, 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 potently 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; Kazumiko 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 IP 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 Hoijfani, MD; Elisabeth Hentgen, MD; Florent Capron, MD; Jean-Marc Ropers; Valerie Billard, MD, Anesthesie, 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 Tikuixis, Ph.D.; Jiri Zamecnik, Ph.D., Anestesia, Dalbousie 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  Anda Ibrarim, MD; Aziz Karim, Ph.D; Jennifer Feldman, BS; Evan Kharasch, 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  Anda Ibrarim, MD; Sang Park, Ph.D; Jennifer Feldman, BS; Evan Kharasch, 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 Her- ing, M.D.; Jurgen Schubert, M.D., Department of Anesthesiology, Univer- sity of Erlangen-Nuremberg, Erlangen, Germany. Pharmacokinetics of alfentanil during TIVA with propofol was studied in 20 patients. Clearance of alfentanil was reduced by 38%.

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 OAA/S score and the BIS index.

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