ASA ABSTRACTS

A-69  Room E, 10/17/2000 9:00 AM - 11:00 AM  (PS)
Propofol, Ketamine and Etomidate Alter Calcium Sensitivity in Mammalian Skeletal Muscle  
Gudrun Kunst, M.D.; Bernard M. Graf, M.D.; Eike Martin, M.D.; Rainer H.A. Fink, Ph.D., Dept. Anesthetology, University of Heidelberg, Heidelberg, Germany. Propofol, etomidate and ketamine increase calcium sensitivity of contractile proteins in saponin skinned skeletal muscle fibers at suprathreshold concentrations.

A-70  Room E, 10/17/2000 9:00 AM - 11:00 AM  (PS)
Inhibition of the Action of Phospholipase A2 Towards Cell Membranes Reduces Leucocyte Activation In Vitro Jens Lindert, MD; Joachim Werner, MD; Axel R. Pries, MD; Saud Yadgar, Ph.D; Hermann Kuppe, MD, Institute of Anesthesiology, Deutsches Herzzentrum Berlin, Berlin, Germany. Protection of cell membranes against Phospholipase A2 reduces leucocyte activation in ischemia/ reperfusion.

A-71  Room E, 10/17/2000 9:00 AM - 11:00 AM  (PS)
A Comparison of Remifentanil Based Anesthesia with Sevoflurane or Propofol for Brachial Plexus Surgery  
Panorea D. Matronnati, MD; Zoe T. Gaboupoulos, MD; Vassiliki A. Vrettou, MD; Mathews M. Petsicopoulos, MD; Kyriaki G. Veimacou, MD, Anesthesiology, KAT, Athens, Greece.

A-72  Room E, 10/17/2000 9:00 AM - 11:00 AM  (PS)
NMDA Receptor, but Not Sigma Receptor, Is Involved in Ketamine-Induced c-Fos Expression in the Mice Posterior Cingulate Cortex  
Shin-ichi Nakao, MD, Ph.D; Nobuyasu Nishizawa, MD; Munehiro Masmancia, MD, Anesthesiology, Kansai Medical University, Moriguchi, Osaka, Japan. Ketamine-induced c-Fos expression in the mice posterior cingulate cortex was mediated by NMDA receptor.

A-73  Room E, 10/17/2000 9:00 AM - 11:00 AM  (PS)
Predictive Performance of a TCI System for Anesthesia during Whole Body Hyperthermia  
A. Nierbaus, MD; C. Meissner, S. Heggensch, MD; C. Schneider, MD; J. Schulte am Esch, MD, Anesthesiology, University Hospital, Hamburg, Germany. In a series of 11 patients, predicted plasma levels of propofol are systematically underestimated during whole body hyperthermia by a common pharmacokinetic model.

A-74  Room E, 10/17/2000 9:00 AM - 11:00 AM  (PS)
Effects of Propofol on Cerebral Blood Flow - Evaluation Using Positron Emission Tomography  
K. Ogawa, M.D., M. Nishikawa, M.D.; T. Uema, M.D.; U. Takayama, M.D.; F. Okumura, M.D., Anesthesiology, Yokohama City University School of Medicine, Yokohama, Japan. Propofol significantly reduced mean CBF, and the relative rCBF decreased in parieto-occipital area, pulvinar and brainstem reticular formaion.

A-75  Room E, 10/17/2000 9:00 AM - 11:00 AM  (PS)
Propofol-Induced Relaxation of Rat Aorta Is Altered by Aging  
Yoko Sakai, M.D.; Hiroshi Kitabayta, M.D.; Yutaka Nakaya, M.D.; Syuzou Osbita, M.D., Department of Anesthesiology, Tokushima University School of Medicine, Tokushima, Tokushima, Japan. Propofol induces vasodilation in both young and adult rats. Whereas, vasodilation by endothelial NO was observed only in young rats. These results suggest propofol might produce greater vasodilation in young animals than in old animals.

A-76  Room E, 10/17/2000 9:00 AM - 11:00 AM  (PS)
Aminophylline Reduces Recovery Time from Propofol/Fentanyl Anesthesia  
S. Sakurai, DDC; A.F. Futakama, MD; Y. Kaneko, DDS; T. Ichiinose, DDS; M. Hayashib, DDS, Dental Anesthesiology, Tokyo Dental College, Chiba-shi, Chiba, Japan. This study shows that aminophylline can safely reduce the recovery time from prolonged propofol/ fentanyl anesthesia in major orthognathic surgery.

A-77  Room E, 10/17/2000 9:00 AM - 11:00 AM  (PS)
Propofol Does Not Induce Enzyme Leakage in Rat Liver In Vitro  
Teruko Sameshima, Ph.D; Yoshitami Kadota, MD; Takeshi Tsuwaru, MD; Katuburo Obae, MD; Yuichi Kamamura, MD, Anesthesiology and CCM, Kagoshima University School of Medicine, Kagoshima, Japan. Propofol did not exhibit hepatotoxicity in rat liver slices, even with two times the clinically used concentration.

A-78  Room E, 10/17/2000 9:00 AM - 11:00 AM  (PS)
Does Sufentanil Improve the Analgesic Quality of Popliteal Block after Hallux Valgus Surgery  
Daniele Saoul, MD; Vincent Fentes, MD; Dominique Grosset, MD; Christophe Frey, Jean E. Bazin, MD, Ph.D, Department of Anesthesia, CHRU, Clermont-Ferrand, France. Local administration of sufentanil bring no benefit in terms of duration and quality of postoperative analgesia in poplitical tibial block.

A-79  Room E, 10/17/2000 9:00 AM - 11:00 AM  (PS)
Propofol TCI in Elderly Patients: Optimizing Administration  
Frederique S. Servin, MD; Gilles Peytavin; Jean-Marie Desmonts, MD, Anesthesiology, Hopital Bichat, Paris, France. Propofol PK/PD relationships were determined in the elderly as well as the adequacy of Marsh's PQ model. Marsh's model performed poorly during induction, and adequately during recovery.

A-80  Room E, 10/17/2000 9:00 AM - 11:00 AM  (PS)
Clonidine Attenuates Aluminium Fluoride-Induced Phosphatidylinositol Response of Rat Trachea  
Osamu Shibata, M.D.; Matsatuka Saito, M.D.; Tetsuji Makita, M.D.; Hiroaki Morooka, M.D.; Koji Sumikawa, M.D., Department of Anesthesiology, Nagasaki University Hospital, Nagasaki, Japan. Clonidine would inhibit G-protein coupled phospholipase C.

A-81  Room E, 10/17/2000 9:00 AM - 11:00 AM  (PS)

A-82  Room E, 10/17/2000 9:00 AM - 11:00 AM  (PS)
Tracheal Intubation without Muscle Relaxants: Comparison between Alfentanil/Propofol, Remifentanil/Propofol, or Propofol/Remifentanil  
Fabien Trabold, MD; Michel Cassetta, MD; Kamran Samit, MD; Dan Benbom, MD; Philippe Sibson, MD, Anesthesiology, CHU de Bicetre, Le Kremlin Bicetre, France. Remifentanil administered after propofol provides good intubating conditions.