ASA ABSTRACTS

Respiration

A-1313  Room G, 10/17/2000 2:00 PM - 4:00 PM (PS)
Additional Work of Breathing with Laryngeal Mask Airway in Anesthetized Spontaneous Breathing Patients Gerardo Aguilar, MD, F. Javier Belda, MD, PhD, Antonio Guillen, MD, Martina Soro, MD, PhD, Francisco Jose Marti, MD, PhD, Anesthesiology and Critical Care Hospital Clinico Universitario, Valencia, Spain

A-1314  Room G, 10/17/2000 2:00 PM - 4:00 PM (PS)
The Development of Novel Magnetic Resonance Imaging in the Normal Porcine Lung: Comparison with Standard Methods Margaret Aranda, MD, Rahim Rizzi, PhD, Hiroto Hatabu, MD, Alvin Yamamoto, Baumgardner E. James, MD, Anesthesiology, University of Pennsylvania, Philadelphia, PA, United States. Novel 1H and gadolinium MRI techniques may be compared with anatomic SPECT and physiologic MIGET data.

A-1315  Room G, 10/17/2000 2:00 PM - 4:00 PM (PS)
Effect of Inhalational Versus Intravenous Anesthesia on Hypoxic Pulmonary Vasoconstriction J.F. Brichant, MD, S. Brimol, MD, M. Demets, MD, M. Delcroix, MD, Laboratory of Pneumology, Catholic University of Leuven, Leuven, Belgium. Preservation of HPV is not a general characteristic of intravenous anesthetic agents whereas not all potent inhaled anesthetics inhibit HPV.

A-1316  Room G, 10/17/2000 2:00 PM - 4:00 PM (PS)
Prolonged Maximal Breathing Oxygenation: Effects on End-Tidal Gases Saraswathi D. Chiratruri, MD, Usbarani Nimmagadda, MD, Ninos J. Joseph, BS, M. Ramez Salem, MD, Mohammed El-Orbany, MD, Dept Anesth, Illinois Masonic Med Ctr, Chicago, IL, United States. Neither 50 sec nor 1 min maximal breath oxygenation raises ETCO2 to 90%. Prolonged maximal breathing decreases ETCO2 and may left-shift the O2-Hbg dissociation curve.

A-1317  Room G, 10/17/2000 2:00 PM - 4:00 PM (PS)

A-1318  Room G, 10/17/2000 2:00 PM - 4:00 PM (PS)
Minimal Inflation Volume for Adequate Filling of the Combitube Pharyngeal Balloon Luis A. Gaittini, MD, Sonia J. Vaida, MD, Mostafa Somar, MD, Millan Criitoru, MD, Bruce Ben-David, MD, Department of Anesthesiology, B'nai Zion Medical Center, Haifa, Israel. For airway seal during spontaneous ventilation the Combitube pharyngeal balloon needs less air than recommended by the manufacturer.

A-1319  Room G, 10/17/2000 2:00 PM - 4:00 PM (PS)
Intrathecal Morphine Improves Forced Vital Capacity and Peak Expiratory Flow Rate after CABG Surgery Sheldon Goldstein, MD, Oscar B. Elbert, RRT, Enriquie Pantoja, MD, Kim Cocozyelo, RN, MSN, Vincent DeAngelis, MD, Anesthesia, UMDNJ:Robert Wood Johnson Medical School, New Brunswick, NJ, United States. Patients who received ITM had larger FVC and PEFR post-CABG as compared to controls.

A-1320  Room G, 10/17/2000 2:00 PM - 4:00 PM (PS)
Protective Effects of Volatile Agents Against Methacholine-Induced Bronchostenosis in Rats Wael Habre, MD, Ferenc Petar, PhD, Peter D. Sty, MD, Zoltan Hantos, PhD, Denis R. Morel, MD, Dept of Anesthesiology, Pharmacology and Intensive Care, University Hospitals of Geneva, Geneva, Switzerland. Isoflurane, sevoflurane, and desflurane are as effective as halothane in protecting airway constriction.

A-1321  Room G, 10/17/2000 2:00 PM - 4:00 PM (PS)

A-1322  Room G, 10/17/2000 2:00 PM - 4:00 PM (PS)
Apneic Induces Bronchoconstriction by Vagally Mediated Reflexes in Dogs Kazzayoshi Hirota, MD, Shizuko Kabara, MD, Eiji Hashiba, MD, Yoshiro Hashimoto, MD, Akitomo Matsuki, MD, Anesthesiology, University of Hirotsaki School of Medicine, Hirotsaki, Aomori, Japan. Apnce produces vagally mediated bronchoconstriction.

A-1323  Room G, 10/17/2000 2:00 PM - 4:00 PM (PS)

A-1324  Room G, 10/17/2000 2:00 PM - 4:00 PM (PS)
Primary Alcohols Mimic the Actions of Volatile Anesthetics on Airway Smooth Muscle Keith A. Jones, MD, Nicole E. Marshall, Keri Griffin, William J. Perkins, David O. Warner, Anesthesiology, Mayo Clinic and Foundation, Rochester, MN, United States. Primary alcohols mimic the airway smooth muscle relaxing effect of volatile anesthetics by decreasing [Ca2+], and Ca2+ sensitivity.

A-1325  Room G, 10/17/2000 2:00 PM - 4:00 PM (PS)
Propofol Antagonizes Methacholine-Induced Bronchoconstriction in Dogs with and without Wagotomy Shizuko Kabara, MD, Kazzayoshi Hirota, MD, Eiji Hashiba, MD, Hideki Yosihoka, MD, Akitomo Matsuki, MD, Anesthesiology, University of Hirotsaki School of Medicine, Hirotsaki, Aomori, Japan. Propofol may directly relax methacholine-induced bronchoconstriction.

A-1326  Room G, 10/17/2000 2:00 PM - 4:00 PM (PS)
Inhaled Nitric Oxide Does Not Improve Oxygenation nor Reduce Rate of Desaturation during One-Lung Ventilation W. Karzat, MD, K. Schwarzkopf, MD, F. Bloos, MD, PhD, U. Klein, MD, Department of Anesthesiology, University Hospital, Jena, Germany. During One lung ventilation and FIO2 at 0.3, 0.5 or 1.0, inhaled NO did not improve oxygenation or decrease frequency of arterial desaturation.