

A-316 Room C, 10/16/2000 9:00 AM - 11:00 AM (PS)

Efficacy of Vital-Heat Warming in Post-Anesthetic Volunteers *Akiko Taguchi, M.D.; Cem F. Arkilic, M.D.; Arundhati Abluwalia, M.D.; Daniel I. Sessler, M.D.; Andrea Kurz, M.D., Anesthesiology, Washington University, St. Louis, MO, United States.* Vital-Heat warming did not effect overall systemic heat balance and did not increase core warming rates in post-anesthetic hypothermic subjects.

A-317 Room C, 10/16/2000 9:00 AM - 11:00 AM (PS)

Clopidogrel on Bleeding and Transfusion Requirements after Coronary Bypass Graft Surgery *Kenichi A. Tanaka, MD; Atsushi Tsuda, MD; Fania Szlam, MMS; Peter J. Olson, MD; Jerrold H. Levy, MD, Anesthesiology, Emory University School of Medicine, Atlanta, GA, United States.* Compared with CABG patients on aspirin, patients on clopidogrel had higher chest drainage and a greater need for platelet transfusion.

A-318 Room C, 10/16/2000 9:00 AM - 11:00 AM (PS)

The Bispectral Index: A Guide to the Depth of Anesthesia during Spine Surgery *Michael K. Urban, MD, PhD; Barbara Urquhart, RN, BSN, Anesthesiology, Hospital for Special Surgery, New York, NY, United States.* The Bispectral Index may be a valuable monitor of the depth of anesthesia during anesthetics in which the use of hypnotics is limited and rapid emergence may be required.

A-319 Room C, 10/16/2000 9:00 AM - 11:00 AM (PS)

Prospective Study of 258 Cases of Intraoperative Monitoring the Recurrent Laryngeal Nerve (IRM) during Thyroid Surgery Via Surface EMG Performed by the Anesthesiologist *Tobias Wolf; Thomas M. Hemmerling, MD, DEAA; Joachim Schmidt, MD; Peter Klein, MD; Klaus E. Jacobi, MD, Anesthesiology, University Erlangen, Erlangen, Bavaria, Germany.* IRM (Surface EMG) avoided nerve injury in thyroid surgery.

A-320 Room C, 10/16/2000 9:00 AM - 11:00 AM (PS)

Relationship between ETCO₂ and Cerebral Oxygen Saturation *Fun-Sun F. Yao, MD; Chia-Chib Tseng, MD; Juntae Yu, BS; Norman Herman, MD, PhD, Anesthesiology, Weill Cornell Medical Center, New York, NY, United States.* During hyperventilation, cerebral rSO₂ decreased 1.12% for each mmHg decrease in ETCO₂, but increased 0.46% for each mmHg increase in ETCO₂.

Clinical Neuroscience: Hemodynamic Monitoring

A-321 Room C, 10/16/2000 2:00 PM - 4:00 PM (PS)

Towards Assessing Mitral Valve Annuloplasty Ring Function and Predicting Mitral Annuloplasty Size *John G. Augoustides, MD; Bonnie L. Milas, Anesthesia (Cardiothoracic Division), Hospital of the University of Pennsylvania, Philadelphia, PA, United States.* Mitral annuloplasty rings are crucial to successful mitral valve repair. This pilot series demonstrates that TEE images and sizes the rings.

A-322 Room C, 10/16/2000 2:00 PM - 4:00 PM (PS)

Peripheral Venous Pressure Correlates Strongly with Volume during Incremental Volume Changes in Dogs *Sanjay Bhatia, MB/BS; James Munis, MD, PhD; Leonardo Lozada, MD; David DeFily, PhD, Center for Anesthesiology Research, Cleveland Clinic Foundation, Cleveland, OH, United States.* PVP is as good an indicator of volume status as CVP.

A-323 Room C, 10/16/2000 2:00 PM - 4:00 PM (PS)

Noninvasive Cardiac Output Using Partial CO₂ Rebreathing vs Direct Aortic Flow Measurements during off Pump Coronary Artery Bypass Grafting (OPCABG) *Monica Botero, MD; Said Khan-sarinia, MD; David Kirby, BA; Nikolaus Gravenstein, MD; Emilio B. Lobato, MD, Anesthesiology and Cardiovascular Surgery, Univ of Florida Coll of Medicine and Veterans Affairs Medical Center, Gainesville, FL,*

A-324 Room C, 10/16/2000 2:00 PM - 4:00 PM (PS)

Measurements of Carotid Blood Flow Velocity and Ventricular Cross-Sectional Area Are Suitable To Appraise Contractility *J.A. Broscheit, MD; C.A. Greim, MD; M. Kessler, PhD; A. Mittnacht, MD; N. Roewer, MD, Anesthesiology, University Hospital, Wuerzburg, Germany.* LV elastance can be determined with Doppler-sonographic measurements of carotid artery blood flow velocity and LV cross-sectional area.

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First Visualisation of Microvessels and Rolling Leukocytes during Cardiac Surgery in Man Using Orthogonal Polarisation Spectral Imaging *Frank Christ, MD; Sieglinde Schaudig; Christian Schiessler, MD; Anthony G. Harris, PhD; Manfred Thiel, MD, Clinic of Anesthesiology, Ludwig Maximilians University, Munich, Germany.* CPB reduces functional capillary density & increases rolling leukocytes.

A-326 Room C, 10/16/2000 2:00 PM - 4:00 PM (PS)

Photoplethysmographic Signals Recorded from Abdominal Organs *Agnieszka J. Crerar-Gilbert, MD, FRCA; Panayiotis A. Kyriacou, MSc; Deric P. Jones, PhD; Richard M. Langford, MB BS, FRCA, Anaesthesia, Barts and The Royal London NHS Trust, London, United Kingdom.* Good quality PPG signals were obtained from normally perfused human abdominal organs suggesting the feasibility of monitoring splanchnic SpO₂.

A-327 Room C, 10/16/2000 2:00 PM - 4:00 PM (PS)

Validation of Cardiac Output Measured by Ultrasound Dilution In a Peripheral Artery of Anesthetized Sheep *Robin D. Glead, BVSc; Victor V. Kislukhin, MS; Richard P. Hackett, DVM, MSc; Nikolai M. Krivitski, PhD, DSc; Alan Dobson, PhD, ScD, Clinical Sciences, Cornell University, Ithaca, NY, United States.* Cardiac output by sound velocity dilution in a peripheral artery relates closely to direct measurements from the pulmonary artery.

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Clinical Evaluation of NICO₂ in ICU Patients *Louis Guzzi, M.D.; Nicholas Drake, RRT; Dinesh G. Haryadi, PhD; Kai Kuck, PhD; Joseph A. Orr, PhD, Dept. of Anesthesiology, Florida Hospital, Orlando, FL, United States.* NICO₂ is a noninvasive cardiac output monitor based on partial CO₂ rebreathing. We evaluated NICO₂ in 40 ICU patients. Bias 0.28 L/m, Precision = 0.98 L/m.

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Assessment of the Vasotrac Blood Pressure Monitor during Deliberate Hypotension *Thomas Hartmann, M.D.; Maja Sostaric, M.D.; Claudia Grabner, M.D.; Marius Poliac, PhD; Kumar Belani, M.D., Anesthesiology and Intensive Care, University of Vienna, Vienna, Austria.* This study validates usefulness of the Vasotrac BP monitor during deliberate hypotension.