A-203  Room B, 10/17/2000 2:00 PM - 4:00 PM (PS)  
Tissue Oxygenation during Acute Normovolemic Hemodilution with a Newly Designed Hydroxethyl Starch Solution in Volunteers  
Frank Schroeder, MD; Thomas G. Standl, MD; Axel Nierhaus, MD; Marc A. Burmeister, MD; Jochem Schulte am Esch, MD, Dept. of Anesthesiology, University Hospital Eppendorf, Hamburg, Germany. HES 150,000 provides continuously increased tissue oxygen tensions after hemodilution.

A-204  Room B, 10/17/2000 2:00 PM - 4:00 PM (PS)  
Synthetic Hemoglobin Reduces Perioperative Blood Transfusions in Vascular, Orthopedic and Abdominal Surgery  
Armin Schubert, MD, MBA; Eduard Masca, MS, Jerome F. O'Hara, Jr, MD; Andrew Novick, MD; Kenneth Marks, MD, Anesthesiology, Cleveland Clinic Foundation, Cleveland, OH, United States. Synthetic hemoglobin results in sparing of PRBC transfusion in 24% of patients undergoing major non-cardiac surgery.

A-205  Room B, 10/17/2000 2:00 PM - 4:00 PM (PS)  
Evaluation of the Anticoagulation Effect of Heparin Distal to Aortic Occlusion in Vascular Reconstruction Surgery  
Jaydeep S. Shah, MD; Robert Mueller, MD; Mark Farber, MD; Joseph J. Naples, MD, James E. Szalados, MD, Department of Anesthesiology, University of Texas Health Science Center, San Antonio, TX, United States. Heparinization during aortic reconstruction is maintained distal to the aortic clamp.

A-206  Room B, 10/17/2000 2:00 PM - 4:00 PM (PS)  
Reducing the Incidence of Heparin Resistance: An Evidence-Based Guideline for Heparin Dosing for Cardiopulmonary Bypass  
Thomus G. Standl, MD; Yu Chiiao Chang, PhD; Sandra de-Bronkart, BSN; Derrick B. Willsley, M.D.; Michael N. D'Ambra, M.D., Dept. of Anes. and Critical Care, Mass. Gen. Hospital, Boston, MA, United States. A practice guideline for heparin in 1310 CPB pts. sig. reduced heparin resistance.

Clinical Circulation: Pharmacology / Physiology

A-207  Room C, 10/17/2000 2:00 PM - 4:00 PM (PS)  
The Effect of Supplemental Fluid Administration on Tissue Perfusion and Tissue Oxygen Pressure  
Cem F. Artilic, MD; Akielo Taguchi, MD; Arrudabati Abuwalida, MD; Daniel I. Sessler, MD; Andrea Kurz, MD, Anesthesiology, Washington University, St. Louis, MO, United States. Perioperative additional fluid administration significantly increases tissue perfusion and oxygen pressure.

A-208  Room C, 10/17/2000 2:00 PM - 4:00 PM (PS)  
Comparison of Peripheral Tissue Perfusion in In-patient Vs. Same Day Admitted Patients  
Cem F. Artilic, MD; Akielo Taguchi, MD; Arrudabati Abuwalida, MD; Neenu Sharma, MD; Andrea Kurz, MD, Anesthesiology, Washington University, St. Louis, MO, United States. Patients admitted to hospital on the same day of surgery are hypovolemic and can not restore normal peripheral perfusion intraoperatively.

A-209  Room C, 10/17/2000 2:00 PM - 4:00 PM (PS)  
Circulatory Effects of IV Bolus Fenoldopam  
John L. Atlee, M.D.; M. Saeed Dhamee, M.D., Anesthesiology, Medical College of Wisconsin, Milwaukee, WI, United States. Compared to a saline control, IV bolus fenoldopam (0.4, 0.8, 1.2 mcg/kg) decreased blood pressure by 4-8% before anesthesia induction. No dose effectively blunted increased blood pressure after tracheal intubation.

A-210  Room C, 10/17/2000 2:00 PM - 4:00 PM (PS)  
Exhaled Nitric Oxide during Liver Transplantation  
Robert E. Black, BS; Michael A.E. Ramsay, MD; Mario T. Cancemi, BS; Tillmann Hehn, MD; Kenneth T. Hicks, CBET, Anesthesiology, Baylor University Medical Center, Dallas, TX, United States. Exhaled nitric oxide levels remain elevated during liver transplantation up to reperfusion of the healthy liver.

A-211  Room C, 10/17/2000 2:00 PM - 4:00 PM (PS)  
The Effect of Diprivan™ on Ischemia-Reperfusion Injury after Abdominal Aortic Aneurysm Surgery  
Patrick J. Breen, FFARCSI; Neil J. McDonald, FFARCSI; Clive W. Mulholland, Ph.D., Department of Anesthesiology, St. Vincent's Hospital, Dublin, Ireland. This pilot study shows that Diprivan™ fails to attenuate ischemia-reperfusion injury in marked contrast to thiopentone/sofutane.

A-212  Room C, 10/17/2000 2:00 PM - 4:00 PM (PS)  
Attenuating the Hemodynamic Consequences of Tracheal Stimulation  
E.C. Czeslick, MD; P.A. Klock, MD; J.M. Klapla, MD; J. Moss, MD; A. Georgeopian, MD, Anesthesiologie, Universitet Halle, Halle, Germany. This study examined the effect of 2 doses of scvo and des on attenuating the cough reflex and hemodynamic consequences of tracheal stimulation. At 1 MAC scvo better prevented HR increases and coughing.

A-213  Room C, 10/17/2000 2:00 PM - 4:00 PM (PS)  
Endothelium-Dependent Thrombin-Induced Biphasic Regulation of Vascular Tone in Porcine Renal Artery  
Dmitry N. Derkach, M.D.; Tetsuzo Nakayama, M.D.; Shosuke Takahashi, M. D., Ph.D., Department of Anesthesiology and Critical Care Medicine, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan. Thrombin induce relaxation and contraction in porcine renal artery.

A-214  Room C, 10/17/2000 2:00 PM - 4:00 PM (PS)  
Protecting the Heart with Ischemic Preconditioning and Enflurane Anesthesia during Off-Pump Coronary Surgery  
Benjamin Drenger, M.D.; Yuval Maroz, M.D.; Dan Gilon, M.D.; Amir Elami, M.D.; Yaakov Gozal, M.D., Anesthesiology, Hadassah University Hospital, Jerusalem, Israel. Ischemic preconditioning and enflurane improved myocardial function and reduced free radical production in off-pump CABG.

A-215  Room C, 10/17/2000 2:00 PM - 4:00 PM (PS)  
Matrix Metalloproteinase-9 during Cardiopulmonary Bypass  
Helen F. Galley, PhD; Graeme D. Macaulay, BSc; Nigel R. Webster, MB PD FRCA, Anesthesiology and Intensive Care, University of Aberdeen, United Kingdom. TNFa and MMP-9 are both increased during cardiopulmonary bypass. We conclude that iv heparin does not release MMP-9 and that the early rise in TNFa is not due to MMP-9.

A-216  Room C, 10/17/2000 2:00 PM - 4:00 PM (PS)  
Heart Failure Does Not Alter Propofol Effects on Sarcolplasmic Reticular Calcium Cycling  
P.M. Heerdt, MD,PD: A. The, BA; D.L. Lee, MD, Cornell Unis., New York, NY, United States. Propofol effects upon SR membranes isolated from failing human hearts with decreased expression of Ca"+ cycling genes was determined. The data show impaired SR function with CHF but no direct effects of propofol.