

CONTENTS

EDITORIAL VIEWS

- Transesophageal Echocardiography and Intraoperative Monitoring of Left Ventricular Function. 799

Byron F. Vandenberg and Richard E. Kerber

CLINICAL INVESTIGATIONS

- Relationship of Regional Wall Motion Abnormalities to Hemodynamic Indices of Myocardial Oxygen Supply and Demand in Patients Undergoing CABG Surgery. 802

Jacqueline M. Leung, Brian F. O'Kelly, Dennis T. Mangano, and the S. P. I. Research Group

- Appraisal of the Quality of Assessment of Memory in Anesthesia and Psychopharmacology Literature. 815

M. M. Ghoneim, M. A. Ali, and R. I. Block

- Electroencephalographic Changes During Brief Cardiac Arrest in Humans. 821

Holly L. Clute and Warren J. Levy

- Frequent Hypoxemia and Apnea after Sedation with Midazolam and Fentanyl. 826

Peter L. Bailey, Nathan L. Pace, Michael A. Ashburn, Johan W. B. Moll, Katherine A. East, and Theodore H. Stanley

- Oral Midazolam Preanesthetic Medication in Pediatric Outpatients. 831

Lawrence H. Feld, Jean B. Negus, and Paul F. White

- Does Perioperative Tactile Evaluation of the Train-of-four Response Influence the Frequency of Postoperative Residual Neuromuscular Blockade? 835

T. Pedersen, J. Viby-Mogensen, U. Bang, N. V. Olsen, E. Jensen, and J. Engbæk

- Effects of Thoracic Epidural Anesthesia on Coronary Arteries and Arterioles in Patients with Coronary Artery Disease. 840

Sture Blomberg, Håkan Emanuelsson, Henry Kvist, Carl Lamm, Johan Pontén, Finn Waagstein, and Sven-Erik Ricksten

- Epidural Clonidine Analgesia after Cesarean Section. 848

Robert Mendez, James C. Eisenach, and Karen Kashtan

- Clinical Evaluation of Clonidine Added to Lidocaine Solution for Epidural Anesthesia. 853

Toshiaki Nishikawa and Shuji Dohi

CONTENTS

(Continued from page 3)

- Chloroprocaine Antagonism of Epidural Opioid Analgesia: A Receptor-specific Phenomenon? 860
William R. Camann, Philip M. Hartigan, Lesley I. Gilbertson, Mark D. Johnson, and Sanjay Datta
- Exogenous Opioids in Human Breast Milk and Acute Neonatal Neurobehavior: A Preliminary Study 864
Bernard Wittels, David T. Scott, and Raymond S. Sinatra
- Vecuronium Neuromuscular Blockade at the Diaphragm, the Orbicularis Oculi, and Adductor Pollicis Muscles. 870
François Donati, Claude Meistelman, and Benoît Plaud
- Functional Residual Capacity in Anesthetized Children: Normal Values and Values in Children with Cardiac Anomalies. 876
Adalbjörn Thorsteinsson, Christer Jonmarker, Anders Larsson, Carsten Vilstrup, and Olof Werner
- High Thoracic Segmental Epidural Anesthesia Diminishes Sympathetic Outflow to the Legs, Despite Restriction of Sensory Blockade to the Upper Thorax. 882
Hans-Bernd Hopf, Bettina Weißbach, and Jürgen Peters
- Hypoxemia in the Postanesthesia Care Unit: An Observer Study. 890
Jakob Trier Moller, Minna Wittrup, and Sophus H. Johansen
- Anesthesia for Craniotomy: A Double-blind Comparison of Alfentanil, Fentanyl, and Sufentanil. 896
Robert P. From, David S. Warner, Michael M. Todd, and Martin D. Sokoll
- Infection during Chronic Epidural Catheterization: Diagnosis and Treatment. 905
Stuart L. Du Pen, Donald G. Peterson, Anna Williams, and Armen J. Bogosian

LABORATORY INVESTIGATIONS

- Effects of Ketamine on the Cardiac Papillary Muscle of Normal Hamsters and Those with Cardiomyopathy. 910
Bruno Riou, Pierre Viars, and Yves Lecarpentier
- Effects of Dexmedetomidine on Contractility, Relaxation, and Intracellular Calcium Transients of Isolated Ventricular Myocardium. 919
Philippe R. Housmans

(Continued on page 7)

CONTENTS

(Continued from page 5)

- Ganglionic Blockade Improves Neurologic Outcome from Incomplete Ischemia in Rats:
Partial Reversal by Exogenous Catecholamines. 923
*Christian Werner, William E. Hoffman, Chinamma Thomas, David J. Miletich, and
Ronald F. Albrecht*
- Nitrous Oxide Effects on Isolated Myocardium: A Reexamination *In Vitro*. 930
Dan Lawson, Martha J. Frazer, and Carl Lynch III
- Epidural Bupivacaine Suppresses Local Glucose Utilization in the Spinal Cord and
Brain of Rats. 944
*Yasuhiro Kuroda, Takefumi Sakabe, Kazuhiko Nakakimura, Shuzoh Oshita, Tsuyoshi
Maekawa, Toshizoh Ishikawa, and Hiroshi Takeshita*
- Differential Effect of Oncotic Pressure on Cerebral and Extracerebral Water Content
during Cardiopulmonary Bypass in Rabbits. 951
*Bradley J. Hindman, Naohiko Funatsu, Davy C. H. Cheng, Roy Bolles, Michael M. Todd,
and John H. Tinker*
- Halothane Cooling Contractures of Skinned Mammalian Muscle Fibers. 958
Roberto Takashi Sudo, Gisele Zapata-Sudo, and G. Suarez-Kurtz
- Local and Global Function of the Right Ventricle in a Canine Model of Pulmonary
Microembolism and Oleic Acid Edema: Influence of Ventilation with PEEP. 964
Bernhard Zwissler, Helmuth Forst, and Konrad Messmer
- Differential Protective Effects of Halothane and Isoflurane Against Hypoxic and Reox-
xygenation Injury in the Isolated Guinea Pig Heart. 976
*Jure Marijic, David F. Stowe, Lawrence A. Turner, John P. Kampine, and Zeljko J.
Bosnjak*
- Halothane and Isoflurane Alter Phospholipid Transmethylation in Rat Brain Synap-
tosomes. 984
John J. Franks, B. V. Rama Sastry, Melanie J. Surber, and Roger E. England
- Adenosine Decreases the Minimum Alveolar Concentration of Halothane in Dogs. 990
Paul A. Seitz, Menno ter Riet, William Rush, and W. Jerry Merrell
- MEDICAL INTELLIGENCE ARTICLE**
- Ergonomic and Human Factors Affecting Anesthetic Vigilance and Monitoring Per-
formance in the Operating Room Environment. 995
Matthew B. Weinger and Carl E. Englund

(Continued on page 9)

CONTENTS

(Continued from page 7)

SPECIAL ARTICLE

- The Evolving Legal Context for Drug Testing Programs. 1022
Michael Scott and Karen S. Fisher

LABORATORY REPORT

- Measurement of Blood Cyanide with a Microdiffusion Method and an Ion-specific Electrode. 1028
Keiichi Yagi, Shigemasa Ikeda, John F. Schweiss, and Sharon M. Homan

CASE REPORTS

- Cardiovascular Depression after Brachial Plexus Block in Two Diabetic Patients with Renal Failure. 1032
Linda F. Lucas and Kentaro Tsueda
- Excessive Airway Pressure Due to Ventilator Control Valve Malfunction during Anesthesia for Open Heart Surgery. 1035
Juraj Sprung, Fawzia Samaan, Terrance Hensler, John L. Atlee III, and John P. Kampine
- Transvenous Pacing for the Anesthetic Management of Surgery for Glossopharyngeal Neuralgia. 1039
Liette Isabel, Jean Brassard, and Claude A. Trépanier
- Anesthesia for a Patient with Kufs' Disease. 1041
Ray J. Defalque
- Intramyocardial Air Causes Right Ventricular Dysfunction after Repair of a Congenital Heart Defect. 1042
William J. Greeley, Frank H. Kern, Ross M. Ungerleider, and Joseph A. Kisslo
- Severe Tracheal Compression Caused by False Aneurysm Arising from the Ascending Aorta: Successful Airway Management Using Induced Hypotension and Bronchoscopy. 1047
Kimitoshi Nishiwaki, Toru Komatsu, Yasuhiro Shimada, Eiji Takeuchi, and Toshio Abe
- Hyperkalemic Death during Use of a High-capacity Fluid Warmer for Massive Transfusion. 1050
Leslie C. Jameson, Peter M. Popic, and Bruce A. Harms

(Continued on page 11)

CONTENTS

(Continued from page 9)

CORRESPONDENCE

Making Oral Midazolam Palatable for Children. <i>Mary D. Peterson</i>	1053
Proper Technique for Insertion of the Laryngeal Mask. <i>Archie Brain</i> Reply. <i>C. R. Grebenik and C. Ferguson</i>	1053 1054
Anesthesia Machine for Use during Magnetic Resonance Imaging. <i>Chalapathi C. Rao, Gopal Krishna, and John Emhardt</i>	1054
Wearing of Gloves by Anesthesia Personnel. <i>Jay J. Jacoby</i>	1055
Intravenous General Anesthesia Is <i>Not</i> Intravenous Sedation. <i>Alan S. Klein and Eric Kunichika</i> Reply. <i>Joseph R. Furman and Melvin D. Smith</i>	1055 1056
Collecting Blood for Autologous Transfusion. <i>Don Han and Meg Rosenblatt</i>	1056
Bloodless Turbinectomy Following Blind Nasal Intubation: Faulty Technique? <i>Daniel C. Moore</i> Reply. <i>Ron Cooper</i>	1057 1057
Dynamic Testing of Catheter Manometer Systems. <i>Bruce Kleinman, Reed M. Gardner, and Steven Powell</i> Reply. <i>Scott Hipkins and Albert Rutten</i>	1058 1059
Safety of Anesthesia for Patients with Anterior Mediastinal Masses: I. <i>Thomas D. Tinker and David L. Crane</i>	1060
Safety of Anesthesia for Patients with Anterior Mediastinal Masses: II. <i>Mark H. Zornow and Jonathan L. Benumof</i> Reply. <i>Lynne R. Ferrari and Robert F. Bedford</i>	1061 1061
BOOK REVIEWS	1062

GUIDE TO AUTHORS

The Guide for Authors is published in the January and July issues. Please refer to the Guide for the preparation of any material for submission to ANESTHESIOLOGY.