

## CONTENTS

### EDITORIAL VIEWS

- The Priming Principle. 381  
*Ronald D. Miller*
- Clinical Implications of the Modulated Receptor Hypothesis: Local Anesthetics and the Heart. 382  
*Joan J. Kendig*
- Post-Cardiac Arrest Therapy: Calcium Entry Blockade and Brain Resuscitation. 384  
*Harvey M. Shapiro*

### ORIGINAL ARTICLES

- Rapid Tracheal Intubation with Vecuronium: The Priming Principle. 388  
*Sylvia Schwarz, Wilfred Ilias, Franz Lackner, Otto Mayrhofer, and Francis F. Foldes*
- Facilitation of Rapid Endotracheal Intubations with Divided Doses of Nondepolarizing Neuromuscular Blocking Drugs. 392  
*Mahesh P. Mehta, Won W. Choi, Samir D. Gergis, Martin D. Sokoll, and Andrew J. Adolphson*
- Mechanism for Bupivacaine Depression of Cardiac Conduction: Fast Block of Sodium Channels during the Action Potential with Slow Recovery from Block during Diastole. 396  
*Craig W. Clarkson and Luc M. Hondeghem*
- Nimodipine Improves Outcome when Given after Complete Cerebral Ischemia in Primates. 406  
*Petter A. Steen, Sven E. Gisvold, James H. Milde, Leslie A. Newberg, Bernd W. Scheithauer, William L. Lanier, and John D. Michenfelder*
- The Antidotal Action of Thiosulfate Following Acute Nitroprusside Infusion in Dogs. 415  
*C. J. Vesey, J. R. Krapez, J. G. Varley, and P. V. Cole*
- Pulmonary Densities during Anesthesia with Muscular Relaxation—A Proposal of Atelectasis. 422  
*B. Brismar, G. Hedenstierna, H. Lundquist, Å. Strandberg, L. Svensson, and L. Tokics*
- Cerebral and Systemic Effects of Hypotension Induced by Adenosine or ATP in Dogs. 429  
*Leslie A. Newberg, James H. Milde, and John D. Michenfelder*
- Scopolamine, Morphine, and Brain-stem Auditory Evoked Potentials in Awake Monkeys. 437  
*Satwant K. Samra, H. Krutak-Krol, R. Pohorecki, and E. F. Domino*
- Comparison of the Ventilatory Effects of Etomidate and Methohexital. 442  
*Sunny D. Choi, Barry C. Spaulding, Jeffrey B. Gross, and Jeffrey L. Apfelbaum*
- Effects of Halothane on the Ventilatory Response to Hypoxia and Hypercapnia in Cats. 448  
*J. T. van Dissel, A. Berkenbosch, C. N. Olievier, J. de Goede, and Ph. H. Quanjer*
- Cardiovascular and Blood Gas Responses to Ketanserin in Canine Pulmonary Edema Induced by Oleic Acid. 457  
*S. Koyama, S. Kiyono, H. Kayaba, M. Kimura, and M. Nishizawa*

## CONTENTS

(Continued from page 3)

Intestinal Circulation during Inhalation Anesthesia. <i>Mark Tverskoy, Simon Gelman, Kathryn C. Fowler, and E. L. Bradley</i>	462
Halothane Concentration Does Not Alter the Threshold for Epinephrine-induced Arrhythmias in Dogs. <i>Samuel Metz and Mervyn Maze</i>	470
Monitoring of Sister Chromatid Exchanges in Lymphocytes of Nurse-Anesthetists. <i>Bent Husum, Hans Christian Wulf, and Erik Niebuhr</i>	475
Alfentanil Pharmacokinetics in Patients with Cirrhosis. <i>C. Ferrier, J. Marty, Y. Bouffard, J. P. Haberer, J. C. Levron, and P. Duvaldestin</i>	480
Effects of Intravenous Anesthesia on $\dot{V}_A/\dot{Q}$ Distribution: A Study Performed during Ventilation with Air and with 50% Oxygen, Supine and in the Lateral Position. <i>Elisabet Anjou-Lindskog, Lisbet Broman, Margareta Broman, Alf Holmgren, Göran Settergren, and Gun Öhqvist</i>	485
<b>SPECIAL ARTICLE</b>	
The Secularization of Pain. <i>Donald Caton</i>	493
<b>LABORATORY REPORTS</b>	
Acute Tolerance to the Analgesic Action of Nitrous Oxide Does Not Develop in Rats. <i>Koh Shingu, Masami Osawa, Kazuhiko Fukuda, and Kenjiro Mori</i>	502
Effect of Cardiac Output on Extravascular Lung Water Estimates Made with the Edwards® Lung Water Computer. <i>K. D. Fallon, R. E. Drake, G. A. Laine, and J. C. Gabel</i>	505
Assay of Serum Cholinesterase with Succinylcholine and Propionylthiocholine as Substrates. <i>Nabil W. Wakid, Ramzi Tubbeh, and Anis Baraka</i>	509
<b>CLINICAL REPORTS</b>	
Gastric Mucosal Lacerations: A Complication of Cardiopulmonary Resuscitation. <i>S. David Register, John B. Downs, and Barbara B. Tabeling</i>	513
Factor IX Induced Hypercoagulable State. <i>Phillip N. Fyman, Alexander Gotta, Pierre A. Casthely, Randall Griep, M. Arisan Ergin, and Kenneth Goodman</i>	515
Acute Adrenal Insufficiency in a Patient with Appendicitis during Anesthesia. <i>Linda B. Hertzberg and Mark S. Shulman</i>	517
Postoperative Pain Relief for Circumcision in Children: Comparison among Morphine, Nerve Block, and Topical Analgesia. <i>Thara Tree-trakarn and Sangsom Pirayavaraporn</i>	519
Prolonged Vecuronium Neuromuscular Blockade in a Patient Receiving Orally Administered Dantrolene. <i>Jacques J. Driessen, Eveline W. Wuis, and Mathieu J. M. Gielen</i>	523
Diagnostic Application of an Axillary Block in an Infant. <i>Carl Lynch III and Roger A. Johns</i>	524

(Continued on page 7)

## CONTENTS

(Continued from page 5)

A Comparison of Two Automated Indirect Arterial Blood Pressure Meters: With Recordings from a Radial Arterial Catheter in Anesthetized Surgical Patients. <i>E. Nystrom, K. H. Reid, R. Bennett, L. Couture, and H. L. Edmonds, Jr.</i>	526
Inability to Titrate PEEP in Patients with Acute Respiratory Failure Using End-tidal Carbon Dioxide Measurements. <i>François Jardin, Bruno Genevray, Martine Pazin, and André Margairaz</i>	530
Aspiration of a Nasal Airway: A Case Report and Principles of Management. <i>James D. Hayes and John D. Lockrem</i>	534
Compressed Spectral Array EEG Monitoring during Cardiac Arrest and Resuscitation. <i>William L. Young and Eugene Ornstein</i>	535
Verapamil Treatment of Intraoperative Coronary Artery Spasm. <i>Nancy A. Nussmeier and Stephen Slogoff</i>	539
<b>CORRESPONDENCE</b>	
False-positive Abrupt Decrease in EtCO <sub>2</sub> during Craniotomy in the Sitting Position. <i>Eugene Ornstein</i>	542
Methemoglobinemia and Respiratory Failure. <i>Ernest Benjamin and Thomas Iberti</i>	542
Another Example of Hypoxic Gas Mixture Delivery. <i>Oak Za Chi</i>	543
Concerning the Actions and Efficacy of Different Antacids. <i>Chun Ter Chen, Thomas J. K. Toung, Semo Nora, and John L. Cameron</i>	544
Reply. <i>Charles P. Gibbs and Tina Banner</i>	545
An Apparent Seizure Following Inadvertent Intrathecal Morphine. <i>Laurence Landow</i>	545
Detection of Defective Equipment by Proper Preanesthetic Checks. <i>S. David Register</i>	546
Proximal Port Dysfunction in Pulmonary Artery Catheters Inserted from the Right Subclavian Vein. <i>Casper H. Badenhorst</i>	546
<b>BOOK REVIEWS</b>	548
<b>CLASSIFIED ADS</b>	37
<b>INDEX TO ADVERTISERS</b>	62

## 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.