

# **CONTENTS**

FD	TTO	RI	<b>Δ</b> T .	VIE	WS
CI		INI.	പ	VIL	77.3

How Far Can We Go With Compartmental Models?  C. J. Hull	399
CLINICAL INVESTIGATIONS	
The Relationship of Age to the Pharmacokinetics of Early Drug Distribution: The Concurrent Disposition of Thiopental and Indocyanine Green.  Michael J. Avram, Tom C. Krejcie, and Thomas K. Henthorn	403
Population Pharmacokinetics and Pharmacodynamics of Thiopental: The Effect of Age Revisited.	412
Donald R. Stanski and Pierre O. Maitre	
Clonidine-Induced Analgesia in Postoperative Patients: Epidural <i>versus</i> Intramuscular Administration.	423
Francis Bonnet, Olga Boico, Sylvie Rostaing, Jean Francois Loriferne, and Michel Saada	
Binding of Thiopental in Neonatal Serum.	428
Harry G. G. Kingston, Angela Kendrick, Karen M. Sommer, George D. Olsen, and Hall Downes	
Neuromuscular Effect of Pipecuronium Bromide in Infants and Children during Nitrous Oxide-Alfentanil Anesthesia.	432
Jean-Françoise Pittet, Edömer Tassonyi, Denis R. Morel, Geneviève Gemperle, and Jean- Claude Rouge	
Preoperative and Intraoperative Echocardiography to Detect Right-to-Left Shunt in Patients Undergoing Neurosurgical Procedures in the Sitting Position.  Susan Black, Donald A. Muzzi, Rick A. Nishimura, and Roy F. Cucchiara	436
The Position and the State of the Larynx during General Anesthesia and Muscle Paralysis.	439
Murali Sivarajan and B. Raymond Fink	
Ibuprofen Pretreatment Inhibits Prostacyclin Release during Abdominal Exploration in Aortic Surgery.	443
Joanne C. Hudson, W. Heinrich Wurm, Thomas F. O'Donnell, Jr., Francis R. Kane, William C. Mackey, Ying-Fu Su, and W. David Watkins	
Influence of Local Anesthetic Solution on Postdural Puncture Headache.	450
J. S. Naulty, L. Hertwig, C. O. Hunt, S. Datta, G. W. Ostheimer, and J. B. Weiss	
(Continued of	on page 5)

3)

### **CONTENTS**

(Con	tinued from page
Chronic Alcohol Intake Does Not Change Thiopental Anesthetic Requirement, Pharmacokinetics, or Pharmacodynamics.	455
Barry N. Swerdlow, Frederick O. Holley, Pierre O. Maitre, and Donald R. Stanski	
Peripheral Vascular Effects of Halothane and Isoflurane in Humans with an Artificial Heart.	462
Jean-Jacques Rouby, Philippe Léger, Alexandre Andreev, Martine Arthaud, Catherine Landau, Eric Vicaut, Christian Cabrol, and Pierre Viars	•
Effects of Age on Plasma Protein Binding of Sufentanil.	470
Claude Meistelman, Dan Benhamou, Jérome Barre, Jean-Claude Levron, Véronique Mahe, Xavier Mazoit, and Claude Ecoffey	
The Laryngeal Mask Airway in Pediatric Radiotherapy.	474
C. R. Grebenik, C. Ferguson, and A. White	
Patient Variables and the Subarachnoid Spread of Hyperbaric Bupivacaine in the Term Parturient.	478
Mark C. Norris	
LABORATORY INVESTIGATIONS	
Uptake and Distribution of Lidocaine in Fetal Lambs.	483
Roland L. Kennedy, John U. Bell, Richard P. Miller, Dinesh Doshi, Hansel de Sousa, Matthew J. Kennedy, Donald L. Heald, Robert Bettinger, and Yadin David	
Effect of Increased Intracranial Pressure on Regional Hypoxic Pulmonary Vasoconstriction.	490
Karen B. Domino, Michael P. Hlastala, and Frederick W. Cheney	
Comparison of Anticholinesterases and Their Effects on Acetylcholine-activated Ion Channels.  Ruth E. Wachtel	496
	E04
The Effects of Volatile Anesthetics on CA <sup>++</sup> Mobilization in Rat Hepatocytes.  Paul A. Iaizzo, Markus J. Seewald, Garth Powis, and Russell A. Van Dyke	504
Oxygen Delivery and Consumption during Hypothermia and Rewarming in the Dog. Jeffrey P. Morray and Edward G. Pavlin	510
Myocardial Ischemia in a Canine Model of Pulmonary Hypertension and Right Coronary Artery Stenosis.	517
Hans-Joachim Priebe	d on page 7)

# **CONTENTS**

(Con Effects of Halothane on Human and Rat Hepatocyte Cultures.	ntinued from page 5)	
Yannick Mallédant, Laurent Siproudhis, Michèle Tanguy, Catherine Clerc, Christoph Chesné, Colette Saint-Marc, and André Guillouzo		
Fentanyl Is Devoid of Major Effects on Coronary Vasoreactivity and Myocardial Metabolism in Experimental Animals.	535	
G. A. Blaise, T. M. Witzeling, J. C. Sill, P. Vinay, and P. M. Vanhoutte		
REVIEW ARTICLE		
The Effect of Anesthetic Agents on the Human Immune Response.	542	
G. W. Stevenson, Steven C. Hall, Steven Rudnick, Frank L. Seleny, and Henry C. Stevenso	n	
LABORATORY REPORTS		
What is the Safest Foil Tape for Endotracheal Tube Protection during Nd-YAG Lase	r	
Surgery? A Comparative Study.	553	
Mitchel Sosis and Francis Dillon		
Methylprednisolone Acetate Does Not Cause Inflammatory Changes in the Epidural		
Space.	556	
Roger S. Cicala, Robert Turner, Edward Moran, Russell Henley, Richard Wong, and James Evans	u.	
CASE REPORTS		
Postoperative Apnea in a Full-Term Infant with a Demonstrable Respiratory Pattern	n	
Abnormality.	559	
Charles J. Coté and Dorothy H. Kelly		
Recurrent Paralysis Following Piperacillin Administration.	561	
Ken Mackie and Edward G. Pavlin		
Severe Dynamic Left Ventricular Outflow Tract Obstruction Following Aortic Valve Replacement Diagnosed by Intraoperative Echocardiography.	e 563	
Fabrizio Cutrone, Joseph P. Coyle, Roberto Novoa, Robert Stewart, and Philip J. Currie		
Prolonged Neuromuscular Blockade after Long-Term Administration of Vecuronium in Two Critically Ill Patients.	n 566	
Veronica Segredo, Michael A. Matthay, Manohar L. Sharma, Larry D. Gruenke, Jame E. Caldwell, and Ronald D. Miller	?s	
(Continue	ed on page 9)	

#### CONTENTS

(Continued from page 7) Percutaneous Extracorporeal CO<sub>2</sub> Removal in a Patient with Bullous Emphysema with Recurrent Bilateral Pneumothoraces and Respiratory Failure. 571 Antonio Pesenti, Gian Piera Rossi, Paola Pelosi, Luca Brazzi, and Luciano Gattinoni Caudal Anesthesia and Intravenous Sedation for Repair of Giant Bilateral Inguinal Hernias in a Ventilator-Dependent Premature Infant. 573 Joseph R. Furman and Melvin D. Smith CORRESPONDENCE A New Double-Angle Blade for Direct Laryngoscopy. 576 Jay Jong-il Choi A Contingency Plan for Tracheal Intubation. 577 Joseph Kross, Joanne T. Zupan, and Jonathan L. Benumof All Subjects of a Study Should Provide Informed Consent. 577 Leonard Soloniuk Reply. Richard I. Cook, J. S. McDonald, and Enrico Nunziata 578 Humidification of Inspired Gas. 578 John S. T. Sum-Ping and Mahesh P. Mehta Reply. Daniel I. Sessler and Bruno Bissonnette 578 579 Preoperative Fasting of Children. G. Meakin Reply. Gerald V. Goresky and Babinder K. Sandhar 580 Suprascapular Nerve Block: A Safer Technique. 580 Winston C. V. Parris **BOOK REVIEWS** 582 REPORTS OF SCIENTIFIC MEETINGS 585

#### **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.

ANESAV is a code word ("coden") used by the Chemical Abstract Service to identify the journal.