

## CONTENTS

## EDITORIAL VIEWS

- The Applicability of Membrane Models to Studies of the Mechanism of Anesthetic Action. *James R. Trudell* 215

## ORIGINAL ARTICLES

- Anesthetic Interaction with a Model Cell Membrane: Expansion, Phase Transition, and Melting of the Lecithin Monolayer. *Issaku Ueda, Donald D. Shieh, and Henry Eyring* 217
- Diazepam Prevents and Aborts Lidocaine Convulsions in Monkeys. *Rudolph H. de Jong and James E. Heavner* 226
- The Interdependency of Cerebral Functional and Metabolic Effects Following Massive Doses of Thiopental in the Dog. *John D. Michenfelder* 231
- Skin and Rectal Temperatures during Ether and Halothane Anesthesia in Infants and Children. *Hiroshi Naito, Tatsuru Yamazaki, Koichi Nakamura, Masako Matsumoto, and Makiji Namba* 237
- Effects of Anesthesia and Paralysis on Diaphragmatic Mechanics in Man. *Alison B. Froese and A. Charles Bryan* 242
- Effects of Nitrous Oxide on Volume and Pressure of Endotracheal Tube Cuffs. *Theodore H. Stanley, Ryohei Kawamura, and Constance Graves* 256
- Electrosurgery Burns Resulting from Use of Miniature ECG Electrodes. *Bryan Finlay, Darrell Couchie, Larry Boyce, and Edward Spencer* 263

## SPECIAL ARTICLE

- Specialty Choices of Medical Graduates Taking Anesthesiology Preceptorships: A Follow-up Study. *John G. Bruhn, Burton S. Epstein, and Thomas K. Burnap* 270

## LABORATORY REPORTS

- Fetal Changes in Hamsters Anesthetized with Nitrous Oxide and Halothane. *David A. Bussard, Robert K. Stoelting, Christine Peterson, and Mohammed Ishaq* 275
- Ability of the Endocrine Pancreas to Attenuate the Increase of Plasma Potassium Caused by Succinylcholine. *George W. Pettit and Robert L. Vick* 279

## CLINICAL REPORTS

- Hyperosmolar Hyperglycemic Nonketotic Coma, A Cause of Delayed Recovery from Anesthesia. *Philip Toker* 284

(Continued from page 2)

|  |     |
|--|-----|
| Hyperosmolar Hyperglycemic Nonketotic Coma in a Patient Undergoing Emergency Cholecystectomy. <i>Howard D. Wulfson and Brian Dalton</i>  | 286 |
| Perforation of the Tympanic Membrane, A Complication of Tympanic Thermometry during Anesthesia. <i>Charles T. Wallace, William E. Marks, Jr., Warren Y. Adkins, and John E. Mahaffey</i> | 290 |
| Venting Overflow Gases from the Air Shields (Ventimeter) Ventilator. <i>David L. Bruce</i>   | 292 |
| Replacement for Intraoperative Blood Loss. <i>Tamas Kallos and Theodore C. Smith</i>   | 293 |
| Generalized Oxalosis with Retinal Involvement Following Methoxyflurane Anesthesia. <i>John D. Bullock and Daniel M. Albert</i>   | 296 |
| Intratracheal Cuffs and Aeromedical Evacuation. <i>David L. Stoner and Julian P. Cooke</i>   | 302 |

## CORRESPONDENCE

|  |     |
|--|-----|
| Malignant Heating Pad. <i>Robert E. Johnstone</i>  | 307 |
| Epidural Blood Patch for Post-lumbar-puncture Headache. <i>Gerard W. Ostheimer, Richard J. Palahniuk, and Sol M. Schneider</i> | 307 |
| Obstetric Anesthesia Organizations in the United States. <i>Gertie F. Marx</i>   | 308 |
| Halothane MAC in the Rabbit. <i>Nancy L. Davis, Ray L. Nunnally, and Theodore I. Malinin</i>                                   | 310 |
| Isoflurane Metabolism. <i>Louis L. Ferstandig</i>  | 311 |
| Muscle Relaxants. <i>Stuart C. Cullen</i>  | 312 |
| Accurate Equations. <i>J. Colin Kay and William H. Noble, 313; Randy Gershwin, N. Ty Smith, and Kunio Suwa, 313</i>            |     |
| The Study of Cyclopropane. <i>William B. Neff</i>  | 313 |

## THE ANESTHESIOLOGIST'S BOOKSHELF 315

Books Received, 283

## GUIDE FOR AUTHORS

The Guide for Authors may be found on pages  
6-8 of the advertising section.