

## CONTENTS

## EDITORIAL VIEWS

- An Adverse Effect of Respiratory Therapy. *Leonard S. Bushnell* 1085

## ORIGINAL ARTICLES

- The Effects of Hyperthyroidism and Hypothyroidism on Halothane and Oxygen Requirements in Dogs. *Arthur A. Babad and Edmond I. Eger, II* 1087
- The Effects of Acute Hypothyroidism and Hyperthyroidism on Cyclopropane Requirement (MAC) in Rats. *Edwin S. Munson, Joseph C. Hoffman, and Cosmo A. DiFazio* 1094
- The Effects of Ultrasonically-produced Aerosols on Airway Resistance in Man. *F. W. Cheney, Jr., and J. Butler* 1099
- Hypothermia: Effect on Canine Brain and Whole-body Metabolism. *John D. Michenfelder and Richard A. Theye* 1107
- The Effect of Halothane on Canine Cerebral Metabolism. *Richard A. Theye and John D. Michenfelder* 1113
- The Effect of Nitrous Oxide on Canine Cerebral Metabolism. *Richard A. Theye and John D. Michenfelder* 1119
- The Parasympathomimetic Activity of Atropine and Atropine Methylbromide. *C. A. Kottmeier and J. S. Gravenstein* 1125
- The Use of Prilocaine Hydrochloride (Citanest<sup>®</sup>) for Epidural Analgesia in Obstetrics. *Paul J. Poppers and Mieczyslaw Finster* 1134
- Anesthetic Potency Determined by Depression of Synaptic Transmission. *Rudolph H. deJong, Felix G. Freund, Roberto Robles, and Ken-Ichi Morikawa* 1139
- Decreased Adrenal Venous Catecholamine Concentrations during Methoxyflurane Anesthesia. *Tsung-Han Li, Marlene S. Shaul, and Benjamin E. Etsten* 1145
- The Effects of Alpha-methyldopa, Reserpine, Guanethidine, and Iproniazid on Minimum Alveolar Anesthetic Requirement (MAC). *Ronald D. Miller, Walter L. Way, and Edmond I. Eger, II* 1153
- Studies with Thiohexital, an Anesthetic Barbiturate Metabolized with Unusual Rapidity in Man. *Lester C. Mark, James M. Perel, Leonard Brand, and Peter G. Dayton* 1159
- The Teratogenicity of Halothane in the Rat. *Alice B. Basford and B. Raymond Fink* 1167

(Continued on page 4)

(Continued from page 2)

## CONTENTS

Physiologic Alterations Induced by Blood-warming during Ether Anesthesia. <i>R. H. Morris and H. A. Trachtenberg</i>	1174
<b>REVIEW ARTICLE</b>	
Anesthesia for Cardiac Surgery: Principles and Practice. <i>Emerson A. Moffitt, Sait Tarhan, and Richard O. Lundborg</i>	1181
<b>CLINICAL WORKSHOP</b>	
A Nomogram for Deadspace Requirement during Prolonged Artificial Ventilation. <i>Kunio Suca, Bennie Geffin, Henning Pontoppidan, and Henrik H. Bendixen</i>	1206
Technical Note Concerning the Block-Aid Monitor. <i>David V. Heisterkamp and Peter J. Cohen</i>	1210
Increasing Postoperative Ventilation: A Comparison of Five Methods. <i>Frederick L. Jones, Jr.</i>	1212
Rubber-Gas Partition Coefficients. <i>Jerry H. Titel and Harry J. Lowe</i>	1215
A New Portable Clinical Suction Device. <i>Joel J. Nobel</i>	1217
Hyperthermia Caused by the Emerson Postoperative Ventilator: A Solution to the Problem. <i>Neal R. Fivehouse and Robert L. Watson</i>	1220
Anesthesia and Glycogen-storage Disease. <i>John M. Cox</i>	1221
A Modified EHN Spirometer for Oxygen Consumption. <i>Cosmo A. DiFazio and Pin Yang Chen</i>	1226
Case Reports. Cardiac Arrhythmias Associated with Succinylcholine in a Patient with Pheochromocytoma. <i>Theodore R. Stoner, Jr., and Karl F. Urbach</i>	1228
Letters to the Editor of Clinical Workshop. Valve for Cuff Inflation. <i>Bernard Brandstater</i>	1230
An Apgar Timer. <i>Richard B. Clark, Byron L. Hawks, and Louis F. Muench</i>	1231
<b>REPORTS OF SCIENTIFIC MEETINGS</b>	
THE ANESTHESIOLOGIST'S BOOKSHELF	1239
<b>LITERATURE BRIEFS</b>	
Anesthesia, 1106, 1112, 1118—Drugs, 1133—Muscle, 1152—Surgery, 1173, 1227, 1229, 1238	1244
INDEX TO VOLUME 29	1249