

CONTENTS

EDITORIAL VIEWS

- Anesthesia and Atelectasis. *T. N. Finley* 863
 Things Are Seldom What They Seem. *Peter J. Cohen* 865

ORIGINAL ARTICLES

- The Effects of Halothane on Circulatory Reflexes of the Dog. *Ralph A. Epstein, Hsueh-hua Wang, and Herbert J. Bartelstone* 867
 The Effects of Halothane on Peripheral and Central Vasomotor Control Mechanisms of the Dog. *Hsueh-hua Wang, Ralph A. Epstein, Shirley J. Markee and Herbert J. Bartelstone* 877
 Monosynaptic Transmission in the Cat's Spinal Cord: A Quantitative Measure of Anesthetic Dose. *Rudolph H. de Jong and Roberto Robles* 887
 Cyclopropane-Epinephrine Effects on Cardiac Rhythm and Potassium Balance. *Howard P. Gutgesell, Jr., P. R. Helmer, and Q. R. Murphy* 892
 The Effect of Halothane on Human Airway Mechanics. *R. W. Patterson, S. F. Sullivan, J. R. Malm, F. O. Bouman, Jr., and E. M. Papper* 900
 Simultaneous Measurement of Erythrocyte, Plasma and Extracellular Fluid Volumes with Radioactive Tracers. *S. N. Albert, J. Shibuya, B. Economopoulos, A. Radice, N. Cucco, E. V. Varrone, and C. A. Albert* 908
 Anesthesia and Atelectasis. *Frank J. Colgan and Tae B. Whang* 917
 Atelectasis and Pneumothorax: Effect on Lung Function and Shunting. *Frank J. Colgan, Tae B. Whang, and Alastair J. Gillies* 923
 Studies of the Mechanism of Cardiovascular Response to CI-581. *Elizabeth G. Dowdy and Keigi Kaya* 931
 The Kinetics of Transfer of Lidocaine (Xylocaine[®]) across the Human Placenta. *Sol M. Shnider and E. Leong Way* 944
 Plasma Levels of Lidocaine (Xylocaine[®]) in Mother and Newborn Following Obstetrical Conduction Anesthesia: Clinical Applications. *Sol M. Shnider and E. Leong Way* 951
 The Effects of Cyclopropane, Halothane and Diethyl Ether on the Cerebral Metabolism of Serotonin in the Rat. *Pedro M. Diaz, S. H. Ngai, and E. Costa* 959
 Fresh Gas Economics of the Magill Circuit. *Martin L. Kain and John F. Nunn* 964
 The Effect of Hyperventilation on Subsequent Cerebral Infarction. *Mark Soloway, William Nadel, Maurice S. Albin, and Robert J. White* 975
 Posthyperventilation Hypoxia: Theoretical Considerations in Man. *S. F. Sullivan and R. W. Patterson* 981
 Use of Whole-Body Autoradiography for Determination of Uptake and Distribution of Labeled Muscle Relaxants in the Rat. *Ellis N. Cohen, Nancy Hood, and Robert Colling* 987
 The Role of pH in the Development of Tachyphylaxis to Local Anesthetic Agents. *Ellis N. Cohen, Donald A. Levine, Jane E. Colliss, and Ronald E. Gunther* 994
 Distribution of Local Anesthetic Agents in the Neuraxis of the Dog. *Ellis N. Cohen* 1002
 Respiratory Depression Associated with Relief of Pain by Narcotics. *Arthur S. Keats and Kamel Z. Gergis* 1006

(Continued on page 4)

CONTENTS

SPECIAL ARTICLE	
The Nature of "Depolarization Block." <i>D. R. Waud</i>	1014
REVIEW ARTICLE	
Anesthesia for Peroral Endoscopy and Bronchography. <i>Donald F. Proctor</i>	1025
LABORATORY NOTES	
Rapid Continuous Measurement of Mixed Expired Carbon Dioxide Concentration. <i>Theodore C. Smith</i>	1037
The Distribution of Procaine in Human Blood: Relation to Potentiation of Succinylcholine. <i>Alejandro Stilmann Salgado</i>	1040
CLINICAL WORKSHOP	
Checking for Electrical Shock Hazards. <i>Charles G. Battig</i>	1046
The Position of Plastic Tubing in Continuous-block Techniques: An X-ray Study of 552 Patients. <i>L. Donald Bridenbaugh, Daniel C. Moore, Phyllis Bagdi, Phillip O. Bridenbaugh</i>	1047
Acute Transient Sialadenopathy during Induction of Anesthesia. <i>Mike Attas, Phiroze B. Sabawala, and Arthur S. Keats</i>	1050
An Acoustic Switch for Use in Constant Monitoring. <i>William R. Ploss</i>	1052
A Means of Recording Force of Thumb Adduction. <i>Leonard F. Walts, Martin Lebowitz, and John B. Dillon</i>	1054
A Modification for the Use of the Bird Mark 2 Ventilator. <i>George W. Seuffert, Jerry A. Shoukas, Theodore R. Stoner, and Karl F. Urbach</i>	1056
Case Reports. Tracheoesophageal Fistula Secondary to Nonpenetrating Trauma to the Chest: Anesthetic Problems and Management of a Case. <i>Azmy R. Boutros and Virgil G. Crosby</i>	1057
Nasal Intubation in Mandibular Prognathism: Postnasal Obstruction and Management. <i>H. D. Westgate, J. R. Gordon, and J. S. Rydberg</i>	1059
Letters to the Editor of Clinical Workshop. Lever-arm to Prevent Accidental Extubation of Infants in Isolettes. <i>Duke B. Weeks and Kendall Broman</i>	1062
Arrhythmias and Negative Airway Pressure. <i>M. R. Salem</i>	1063
CORRESPONDENCE	
On the Variation of Anesthetic Potency with Vapor Pressure. <i>David H. Sachs, 1064; Edmond I. Eger, II, 1065</i>	
On the Metabolism of Trichloroethylene. <i>Kenneth C. Leibman, 1066; Nicholas M. Greene, 1067</i>	
Oliver Wendell Holmes and Anesthesia. <i>Henry K. Beecher, 1068</i>	
Potentiation of Muscle Relaxants by Quinidine. <i>Jose E. Usubiaga, 1068; Ronald D. Miller, Walter L. Way, and B. G. Katzung, 1069</i>	
REPORTS OF SCIENTIFIC MEETINGS	1071
THE ANESTHESIOLOGIST'S BOOKSHELF	1078
LITERATURE BRIEFS	1080
Drugs, 891, 922, 930—Kidney, 963—Muscle, 980—Surgery, 993, 1063, 1070, 1079	
Physicians' Art Exhibit, Las Vegas, Nevada, 1967, Winners. 876, 943, 958, 1024, 1036, 1077	