

CONTENTS

EDITORIAL VIEWS

- The Great Trans-Atlantic Acid-Base Debate. *John P. Bunker* 591

ORIGINAL ARTICLES

- Arterial Oxygenation During Hypothermia. *J. Hedley-Whyte, H. Pontoppidan, M. B. Laver, P. Hallowell and H. H. Bendixen* 595
- Effects of Diethyl Ether and Halothane on Firefly Luciferin Bioluminescence. *Issaku Ueda* 603
- Electrical Anesthesia Produced by Combining Direct and Alternating Currents: Electronmicroscopy of the Dog Brain. *Robert H. Smith, Richard K. Richards, Ward R. Richter, Robert R. Hylton, John R. McCabe and Stuart C. Cullen* 607
- Modified Axillary Block. With Block of the Lateral Antebrachial Cutaneous (Terminal Musculocutaneous) Nerve. *Rudolph H. de Jong* 615
- Epinephrine and PLV-2: Cardiac Rhythm and Local Vasoconstrictor Effects. *Ronald L. Katz* 619
- Cerebral Carbohydrate Metabolism During Hypocarbica in Man. Studies During Nitrous Oxide Anesthesia. *S. Craighead Alexander, Peter J. Cohen, Harry Wollman, Theodore C. Smith, Martin Reivich and Robin A. Vander Molen* 624
- The Hemodynamic Effects of Potassium Infusion in Dogs. *N. Ty Smith and Aldo N. Corbascio* 633
- Arterial Oxygen Tension Measurements During Nitrous Oxide-Oxygen Anesthesia. *E. M. Slater, S. E. Nilsson, D. L. Leake, W. L. Parry, M. B. Laver, J. Hedley-Whyte and H. H. Bendixen* 642

PROGRESS IN RENAL INVESTIGATION

- Anatomy and Physiology of Intrarenal Oxygen Tension: Preliminary Study of the Effects of Anesthetics. *Kurt O. Leonhardt, Ralph R. Landes and Ralph T. McCauley* 648

LEGAL INTELLIGENCE

- The Causes of Malpractice Action. *Carl E. Wasmuth* 659

ANNALS OF HISTORY

- The Anesthetists in Thomas Eakins' "Clinics." *James E. Eckenhoff* 663

CONTENTS

SPECIAL ARTICLE

- Design of a Recovery Room and Intensive Care Unit. *Per Erik Wiklund* 667

LABORATORY METHODS

- Determination of the Solubility of Nitrous Oxide in Water by Gas Chromatography. *Harold H. Borgstedt and Alastair J. Gillies* 675

CURRENT COMMENT

- The Use of Data Tape Recording as a Teaching Aid. *David Gowing and Frederick P. Haugen* 679
- Effects on Postoperative Sore Throats of Two Analgesic Agents and Lubricants Used with Endotracheal Tubes. *Lawrence O. Lund and Felisaring G. Daos* 681
- Convenient Flows Using Flow-Metered Vaporizers. *Jon Pegg* 683
- Gadgets. Clip-Type Syringe Holder. *S. N. Albert* 684
- A Membrane Mounting Aid for Use with Beckman P_{O_2} Electrodes. *John D. Battenberg* 685
- Case Reports. Preoperative Bradycardia. *Gertie F. Marx and Louis R. Orkin* 686
- An Unusual Case of Respiratory Obstruction. *Sidney Cassner and Nahum Ben-Hur* 687
- Halothane Anesthesia and Catecholamine Levels in a Patient with Pheochromocytoma. *Benjamin E. Etsten and Shiro Shimamoto* 688
- Anesthetic Management in Treacher-Collin's Syndrome. *Vasumathi M. Divekar and Barinda N. Sircar* 692

CORRESPONDENCE

- Correlation of Blood Levels of 4-Hydroxybutyrate and Consciousness. *Nicholas J. Giarmas and Robert H. Roth*, 694—*M. Helrich, T. C. McAslan, S. Skolnik and S. P. Bessman*, 695
- Effect of Local Anesthetics on the Myoneural Junction. *Rudolph H. de Jong*, 696—*Jose E. Usubiaga*, 696
- Anti-Analgesia. *John Clutton-Brock*, 697

- THE ANESTHESIOLOGIST'S BOOKSHELF 698

- LITERATURE BRIEFS 699