Anesthesiology

MAY-JUNE, 1957

CONTENTS

ORIGINAL ARTICLES

THE TRANQUILIZING DRUGS: A CLASSIFICATION AND PHARMACOLOGICAL SURVEY. Martin Irwin Gold and Hrant H. Stone 357

ANESTHETIC VAPORIZERS: A PHYSICAL BASIS FOR FUNCTIONAL CLASSIFICATION. Albert Faulconer, Jr. 372

ELECTIVE CARDIAC ARREST DURING CARDIOTOMY. SUMMARY OF 37 CASES. Donald E. Hale, Patrick P. Moraca, and Carl E. Wasmuth 378

PROGNOSIS AFTER SEVERE HYPOXIA IN MAN. J. Weldon Bellville and William S. Howland 389

EVALUATION OF ELECTROCARDIOGRAPHY DURING CONGENITAL HEART SURGERY. Robert M. Smith and H. Paul Wiley 398

ACTION OF SUCCINYLCHOLINE ON MOTILITY OF ANEURAL SMOOTH MUSCLE AND ITS RELATIONSHIP TO ACETYLCHOLINE. John Ferguson 413

OBSERVATIONS DURING APNEA IN CONSCIOUS HUMAN SUBJECTS. Lester Rumble, Jr., Manuel N. Cooper, Donald S. Bickers, John K. Schellack, Edward J. Waits, and Kenneth Hyatt 419

DEPOLARIZING NEUROMUSCULAR BLOCKING AGENTS AND INTRAOCULAR PRESSURE *in Vivo*. John B. Dillon, Phiroze Sabawala, Dermot B. Taylor, and Ralph Gunter 439

ANESTHESIA IN THE PATIENT WITH MYASTHENIA GRAVIS. William A. Mathews and William S. Derrick 443

RE-EVALUATION OF PARAVERTEBRAL LUMBAR SYMPATHETIC BLOCK IN TREATMENT OF PERIPHERAL VASCULAR DISEASE. D. LeRoy Crandell and William G. Page 454

EARLY BLOOD CHANGES IN DOGS FOLLOWING INTRAVENOUS PENTOBARBITAL ANESTHESIA. Joseph G. Graca and Edna L. Garst 461

CHANGES IN OXYGEN SATURATION DURING BRONCHOSCOPIES. Thomas J. DeKornfeld and Karl L. Siebecker 466

THE UTILIZATION OF FOG AS A THERAPEUTIC AGENT. Ralph M. Tovell and David M. Little, Jr. 470

ANESTHESIA. LVI. STABILITY OF TRIFLUOROETHYLVINYL AND ETHYLVINYL ETHERS IN THE ANIMAL BODY. Ruth D. Musser, Chung S. Park, and John C. Krantz, Jr. 480

PREOPERATIVE RECOGNITION AND TREATMENT OF BRONCHOPULMONARY DISEASE. William F. Miller, J. Robert Cade, and Ivan E. Cushing 483

EDITORIAL

ON MISUNDERSTANDING THE OPPORTUNITIES IN ANESTHESIA 498

CURRENT COMMENT AND CASE REPORTS

INTRAVENOUS INFUSION APPARATUS, 501—CARDIAC ARREST DURING CHLOROFORM MONITORED BY EEG AND EKG, 504—REACTION TO IMPROPERLY CLEANED ENDOTRACHEAL CATHETER, 505—NONEXPLOSIVE LUBRICANT, 506—DEVICE FOR TRANSORAL TOPICAL ANESTHESIA, 507—ADAPTATION OF "COPPER KETTLE" VAPORIZER, 508. **Correspondence**, 509

MISCELLANY

THE RESPONSIBILITIES OF THE MEDICAL PROFESSION IN THE USE OF X-RAYS AND OTHER IONIZING RADIATION 512

REPORT OF THE NATIONAL FIRE PROTECTION ASSOCIATION'S COMMITTEE ON HOSPITAL OPERATING ROOMS 515

THE ANESTHESIOLOGIST'S BOOKSHELF 517

BRIEFS FROM THE LITERATURE 520

NOTICE 377