Anesthesiology

CONTENTS

EDITORIAL VIEWS	
An Arthurian Legend: Oxygen and the Regulation of Blood Flow. Myron B. Laver	523
ORIGINAL ARTICLES	
Oxygen Transport during Acute Alkalosis and Hyperphosphatemia in Dogs. Mark O. Farber, Felice Manfredi, Kenneth F. Atkinson, and Thomas C. Passo	525
Ketamine-induced Stress Ulcers in the Rat. David H. Cheney, Stephen Slogoff, and Gary W. Allen	531
Renal Effects and Metabolism of Isoflurane in Man. Richard I. Mazze, Michael J. Cousins, and Gary A. Barr	536
Respiratory Depression from Alkalosis and Opioid Interaction in Man. Howard E. Hudson, Philip I. Harber, and Theodore C. Smith	543
Biotransformation of Fluroxene in Man. Helga Gion, Nozomu Yoshimura, Duncan A. Holaday, Vera Fiserova-Bergerova, and Robert E. Chase	553
The Effect of Unilateral Pulmonary-artery Occlusion on the Rate of Increase of Arterial Anesthetic Concentration. Robert K. Stoelting and David E. Longnecker	563
Is Depression of Mitochondrial Respiration a Predictor of In-vivo Anesthetic Activity? Michael L. Nahrwold, Clifford R. Clark, and Peter J. Cohen	566
The Effects of Isoflurane on Canine Cerebral Metabolism and Blood Flow. Roy F. Cucchiara, Richard A. Theye, and John D. Michenfelder	571
Canine Cerebral Oxygen Consumption during Enflurane Anesthesia and Its Modification during Induced Seizures. John D. Michenfelder and Roy F. Cucchiara	575
Comparison of the Ventilatory Effects of Two Antiemetics, Benzquinamide and Prochlorperazine. Thomas D. Mull and Theodore C. Smith	581
MEDICAL INTELLIGENCE	
Cardiovascular Manifestations of Tetanus. Kentaro Tsueda, Prince B. Oliver, and Ralph W. Richter	58 8
LABORATORY NOTE	
Physiologic Deadspace-to-Tidal Volume Ratio: A New Working Equation and Nomograms. Thomas A. Torda and Deruck Duncalf	593

(Continued from page 2)

CONTENTS

CONTENIS	
CLINICAL WORKSHOP	
A Comparison of the Effects of Intravenous Innovar and Topical Spray on the Laryngeal Closure Reflex. C. J. Kopriva, R. J. Eltringham, and P. E. Siebert	596
A Complication of Radial-artery Cannulation. Robert W. Johnson	598
Anesthetic Management of Cholecystectomy in a Patient with Buccal Pemphigus. Chellapandian Jeyeram and Thomas A. Torda	600
Successful Weaning after Five Years of Mechanical Ventilation. John B. Downs, Haven M. Perkins, and W. W. Sutton	602
The Use of Epsilon-aminocaproic Acid to Reduce Bleeding during Cardiac Bypass in Children with Congenital Heart Disease. P. D. McClure and J. Izsak	604
CORRESPONDENCE	
CO ₂ Absorber Placement Affects Spirometric Measurements of Gas Exchange and Pulmonary Function. Robert E. Johnstone, Charles E. Reier, and Theodore C. Smith	609
Investigating Acupuncture. Bernard S. Millman, 611; George Szele, 612; Robert K. Stoelting, K. C. Kim, Christine Peterson, and Kenneth A. Haselby, 613	
Anesthesiologists in Intensive Care. Peter M. Winter, 613; David M. Little, Jr., 614	
THE ANESTHESIOLOGIST'S BOOKSHELF	615

LITERATURE BRIEFS

616

Drugs and Their Use, 535—Obstetrics, 587, 608—Paraphernalia, 524—Respiration, 616—Circulation, 617—Respiration,

INDEX TO VOLUME 40

621

GUIDE TO AUTHORS

The Guide for Authors is published in the January and July issues. Authors unable to consult these issues may obtain copies from the Editor-in-Chief, Nicholas M. Greene, M.D., Journal of Anesthesiology, Yale University School of Medicine, 333 Cedar St., New Haven, Connecticut 06510.

ANESAV is a code worde ("coden") used by the Chemical Abstract Service to identify the journal.