## CONTENTS

EDITORIAL VIEWS	
For Oxygen Security. Robert M. Epstein	299
ORIGINAL ARTICLES	
Ethylene-Halothane Anesthesia: Addition or Synergism? Ronald D. Miller, Eric A. Wahrenbrock, Charles F. Schroeder, Thomas W. Knipstein, Edmond I. Eger, II, and D. R. Buechel	301
Observations on the Anesthetic Effect of the Combination of Xenon and Halothane. Stuart C. Cullen, Edmond I. Eger, II, Bruce F. Cullen, and Paul Gregory	305
Myocardial Metabolism in Patients Having Aortic-valve Replacement.  Emerson A. Moffiitt, John W. Rosevear, Clary H. Townsend, and  Dwight C. McGoon	310
Hyperventilation and Spinal Reflexes. Luke M. Kitahata, Arthur Taub, and Isao Sato	321
Isovolemic Intraventricular Pressure Change: An Index of Myocardial Contractility during Anesthesia. Shiro Shimosato	327
The Effects of Halothane and Cyclopropane on Total Pulmonary Resistance in the Dog. Robert F. Hickey, Paul D. Graf, Jay A. Nadel, and C. Philip Larson, Jr.	334
Median Effective Doses (ED50) of Halothane in Adults and Children. Honorato F. Nicodemus, C. Nassiri-Rahimi, Leonard Bachman, and Theodore C. Smith	344
Comparison of the Effects of Equieffective Concentrations of Anesthetics on the Force of Contraction of Isolated Perfused Rat Hearts: Correlation with the Equieffective Anesthetizing Partial Pressures. Raymond R. Paradise and Frank Bibbins	349
MEDICAL INTELLIGENCE	

Succinylcholine Hydrolysis: A Review. Roger W. Litwiller

(Continued on page 4)

356

388

## CONTENTS

TECHNICAL	NOTES

Safety in the Use of Nitrous Oxide: A Modification of the Standard Anesthetic Machine to Eliminate Sources of Human Error and System Failure. Richard S. Matteo, Aaron Gissen, and Arnold St. J. Lee	36
CLINICAL WORKSHOP	
Crossover Study of $\overline{E}$ thrane and Halothane in Volunteers. Martin Helrich and Helmut F. Cascorbi	370
A Safe Method for Discharging Anesthetic Gases. R. Anthony Marrese	37.
A Radiographic Approach to Celiac Plexus Block. Stephen H. Jackson, J. Bruce Jacobs, and Ralph A. Epstein	373
An Exercise Helmet for Physiologic Studies. Sisir K. Gupta	375
Comparison of Nasal Catheter and Nasal Cannula in Patients Recovering from General Anesthesia. Kermit R. Tantum	376
A New Laryngoscope Blade Designed to Facilitate Difficult Endotracheal Intubation. Robert B. Orr	377
Case Reports. Dilatation of the Larynx with Cole Tubes. Bernard Brandstater	378
A Suspected Allergic Reaction to Lidocaine. R. F. Alistair Lynas	380
CORRESPONDENCE	
Lumbar Puncture Technique for Spinal Anesthesia. Charles M. Landmesser, 383	
Distribution and Metabolism of Thiohexital. J. Selwyn Crawford, 384; Lester C. Mark, James M. Perel, Leonard Brand, and Peter G. Dayton, 384	
The Effects of Ethrane. Lawrence J. Saidman, 386; Shiro Shimosato, 386	

## LITERATURE BRIEFS

THE ANESTHESIOLOGIST'S BOOKSHELF

Muscle, 320—Pediatric Anesthesia, 326, 333—Drugs, 348, 355, 360, 382, 387