

CONTENTS

SYMPOSIUM—MATERNAL AND FETAL PHYSIOLOGY IN THE PERINATAL PERIOD

- An Obstetrician's View of Anesthesiology. *Duncan E. Reid* 377
Obstetrics and Anesthesiology. *Robert A. Hingson* 378

Maternal Physiology

- Respiratory and Acid-Base Changes During Pregnancy. *Clive M. Prowse and Edward A. Gaensler* 381
Changes in the Blood Volume During Pregnancy and Delivery. *Jack A. Pritchard* 393
Water and Electrolyte Balance During Pregnancy. *Brian Little* 400
Effects of Drugs on Uterine Contractility. *Emanuel A. Friedman* 409
Shock in the Obstetric Patient. *Gertie F. Marx* 423
Obstetric Mortality. *Otto C. Phillips and Jaroslav F. Hulka* 435

Placental and Fetal Physiology

- Uterine Blood Flow and Placental Circulation. *Chester B. Martin, Jr.* 447
Placental Gas Transfer. *James Metcalfe* 460
Uptake, Distribution and Placental Transport of Drugs and Anesthetics. *Frank Moya and Bradley E. Smith* 465
Fetal Electrocardiography. *Edward H. Hon* 477
Response of the Fetus and Newborn to Drugs. *William L. Nyhan and Fritz Lampert* 487
Physiologic Adjustments at Birth. Effects of Labor, Delivery and Anesthesia on the Newborn. *L. Stanley James* 501
Respiratory Physiology in the Newborn Infant. *Mary Ellen Avery and Colin Normand* 510
Changes in the Circulation at Birth. *Geoffrey S. Dawes* 522
Thermal Homeostasis in the Fetus and Newborn. *Karlis Adamsons, Jr., and Molly E. Towell* 531

CONTENTS

- Resuscitation of the Depressed Newborn. *Bradley E. Smith and Frank Moya* 549

- Organization of an Obstetric Anesthesia Service. *Sol M. Shnider* 562

CURRENT COMMENT

- Propitocaine (Citanest) and Methemoglobinemia. *P. C. Lund and J. C. Cwik* 569

- Amitriptyline (Elavil) as an Agent for Premedication. *Gerald D. Allen and J. J. Bonica* 571

- Gadgets.** Shoe-Tester Unlocks the Door. *Herman Slass, James Marin and Eddy U. Charles* 572

- Humidifying the Air-Shields Respirator. *T. W. Heironimus, III, and D. W. Eastwood* 573

- An Automatic Sighing Device. *Jack M. Kamen* 575

- How to Make Your Laryngoscope Light Work. *Paul J. Schneider and Bruce M. Anderson* 576

- Case Reports.** Respiratory Obstruction. *Martin I. Gold and John M. Atwood* 577

- "Uninflatable" Inflatable Cuffs. *H. J. Birkhan and M. Heifetz* 578

CORRESPONDENCE

- Ethylene Uptake in Man. *Ernest Salanitre, Herbert Rackow, Robert M. Epstein and Gerald Wolf* 579

- THE ANESTHESIOLOGIST'S BOOKSHELF** 580

- LITERATURE BRIEFS** 585