

Contents

Chapter 43 Placental Anatomy and Physiology, 206	Chapter 31 Preconception and Prenatal Risk Factors, 206	Chapter 54 Maternal and Fetal Hemodynamics, 211
Chapter 44 Developmental Origins of Adult Health and Disease, 212	Chapter 32 Growth and Anomaly, 212	Chapter 55 Breech Births, 212
SECTION I	SECTION II	SECTION III
Physiology, 1	Prenatal Care, 101	Intrapartum Care, 245
Chapter 1 Placental Anatomy and Physiology, 2 Graham J. Burton, Colin P. Sibley, and Eric R.M. Jauniaux	Chapter 2 Fetal Development and Physiology, 26 Michael G. Ross and M. Gore Ervin	Chapter 10 Genetic Screening and Prenatal Genetic Diagnosis, 193 Deborah A. Driscoll, Joe Leigh Simpson, Wolfgang Holzgreve, and Lucas Otaño
Chapter 3 Maternal Physiology, 38 Kathleen M. Antony, Diana A. Racusin, Kjersti Aagaard, and Gary A. Dildy III	Chapter 4 Maternal-Fetal Immunology, 64 Kristina M. Adams Waldorf	Chapter 11 Antepartum Fetal Evaluation, 219 Mara B. Greenberg and Maurice L. Druzin
Chapter 5 Developmental Origins of Adult Health and Disease, 83 Michael G. Ross and Mina Desai	Chapter 6 Preconception and Prenatal Care, 102 Kimberly D. Gregory, Diana E. Ramos, and Eric R.M. Jauniaux	Chapter 12 Normal Labor and Delivery, 246 Sarah Kilpatrick and Etoi Garrison
SECTION II	SECTION III	Chapter 13 Abnormal Labor and Induction of Labor, 271 Lili Sheibani and Deborah A. Wing
Prenatal Care, 101	Intrapartum Care, 245	Chapter 14 Operative Vaginal Delivery, 289 Peter E. Nielsen, Shad H. Deering, and Henry L. Galan
Chapter 6 Preconception and Prenatal Care, 102 Kimberly D. Gregory, Diana E. Ramos, and Eric R.M. Jauniaux	Chapter 7 Nutrition During Pregnancy, 122 Elizabeth Horvitz West, Lisa Hark, and Patrick M. Catalano	Chapter 15 Intrapartum Fetal Evaluation, 308 David Arthur Miller
Chapter 7 Nutrition During Pregnancy, 122 Elizabeth Horvitz West, Lisa Hark, and Patrick M. Catalano	Chapter 8 Drugs and Environmental Agents in Pregnancy and Lactation: Teratology, Epidemiology, 136 Jennifer R. Niebyl, Robert J. Weber, and Gerald G. Briggs	Chapter 16 Obstetric Anesthesia, 344 Joy L. Hawkins and Brenda A. Bucklin
Chapter 8 Drugs and Environmental Agents in Pregnancy and Lactation: Teratology, Epidemiology, 136 Jennifer R. Niebyl, Robert J. Weber, and Gerald G. Briggs	Chapter 9 Obstetric Ultrasound: Imaging, Dating, Growth, and Anomaly, 160 Douglas S. Richards	Chapter 17 Malpresentations, 368 Susan M. Lanni, Robert Gherman, and Bernard Gonik
Chapter 9 Obstetric Ultrasound: Imaging, Dating, Growth, and Anomaly, 160 Douglas S. Richards		Chapter 18 Antepartum and Postpartum Hemorrhage, 395 Karrie E. Francois and Michael R. Foley
		Chapter 19 Cesarean Delivery, 425 Vincenzo Berghella, A. Dhanya Mackeen, and Eric R.M. Jauniaux

Chapter 20

Vaginal Birth After Cesarean Delivery, 444

Mark B. Landon and William A. Grobman

Chapter 21

Placenta Accreta, 456

Eric R.M. Jauniaux, Amar Bhinde, and Jason D. Wright

SECTION IV**Postpartum Care, 467****Chapter 22**

The Neonate, 468

Paul J. Rozance and Adam A. Rosenberg

Chapter 23

Postpartum Care and Long-Term Health Considerations, 499

Michelle M. Isley and Vern L. Katz

Chapter 24

Lactation and Breastfeeding, 517

Edward R. Newton

SECTION V**Complicated Pregnancy, 549****Chapter 25**

Surgery During Pregnancy, 550

Nadav Schwartz and Jack Ludmir

Chapter 26

Trauma and Related Surgery in Pregnancy, 565

Haywood L. Brown

Chapter 27

Early Pregnancy Loss and Stillbirth, 578

Joe Leigh Simpson and Eric R.M. Jauniaux

Chapter 28

Cervical Insufficiency, 595

Jack Ludmir, John Owen, and Vincenzo Berghella

Chapter 29

Preterm Labor and Birth, 615

Hyagriv N. Simhan, Jay D. Iams, and Roberto Romero

Chapter 30

Premature Rupture of the Membranes, 647

Brian M. Mercer

Chapter 31

Preeclampsia and Hypertensive Disorders, 661

Baha M. Sibai

Chapter 32

Multiple Gestations, 706

Roger B. Newman and Elizabeth Ramsey Unal

Chapter 33

Intrauterine Growth Restriction, 737

Ahmet Alexander Baschat and Henry L. Galan

Chapter 34

Red Cell Alloimmunization, 770

Kenneth J. Moise Jr

Chapter 35

Amniotic Fluid Disorders, 786

William M. Gilbert

SECTION VI**Pregnancy and Coexisting Disease, 795****Chapter 36**

Prolonged and Postterm Pregnancy, 796

Roxane Rampersad and George A. Macones

Chapter 37

Heart Disease in Pregnancy, 803

Jason Deen, Suchitra Chandrasekaran, Karen Stout, and Thomas Easterling

Chapter 38

Respiratory Disease in Pregnancy, 828

Janice E. Whitty and Mitchell P. Dombrowski

Chapter 39

Renal Disease in Pregnancy, 850

David F. Colombo

Chapter 40

Diabetes Mellitus Complicating

Pregnancy, 862

Mark B. Landon, Patrick M. Catalano, and Steven G. Gabbe

Chapter 41

Obesity in Pregnancy, 899

Patrick M. Catalano

Chapter 42

Thyroid and Parathyroid Diseases in

Pregnancy, 910

Jorge H. Mestman

Chapter 43

Pituitary and Adrenal Disorders in Pregnancy, 938
Mark E. Molitch

Chapter 44

Hematologic Complications of Pregnancy, 947
Philip Samuels

Chapter 45

Thromboembolic Disorders in Pregnancy, 965
Christian M. Pettker and Charles J. Lockwood

Chapter 46

Collagen Vascular Diseases in Pregnancy, 981
Jeanette R. Carpenter and D. Ware Branch

Chapter 47

Hepatic Disorders During Pregnancy, 998
Mitchell S. Cappell

Chapter 48

Gastrointestinal Disorders During Pregnancy, 1012
Mitchell S. Cappell

Chapter 49

Neurologic Disorders in Pregnancy, 1030
Elizabeth E. Gerard and Philip Samuels

Chapter 50

Malignant Diseases and Pregnancy, 1057
Ritu Salani and Larry J. Copeland

Chapter 51

Skin Disease and Pregnancy, 1075
Annie R. Wang and George Kroumpouzos

Chapter 52

Maternal and Perinatal Infection: Chlamydia, Gonorrhea, and Syphilis in Pregnancy, 1089
Jessica L. Nyholm, Kirk D. Ramin, and Daniel V. Landers

Chapter 53

Maternal and Perinatal Infection in Pregnancy: Viral, 1099
Helene B. Bernstein

Chapter 54

Maternal and Perinatal Infection in Pregnancy: Bacterial, 1130
Patrick Duff and Meredith Birsner

Chapter 55

Mental Health and Behavioral Disorders in Pregnancy, 1147

Katherine L. Wisner, Dorothy K.Y. Sit, Debra L. Bogen, Margaret Altemus, Teri B. Pearlstein, Dace S. Svikis, Dawn Misra, and Emily S. Miller

SECTION VII**Legal and Ethical Issues in Perinatology, 1173****Chapter 56**

Patient Safety and Quality Measurement in Obstetric Care, 1174

William A. Grobman and Jennifer L. Bailit

Chapter 57

Ethical and Legal Issues in Perinatology, 1183

George J. Annas and Sherman Elias[†]

Chapter 58

Improving Global Maternal Health: Challenges and Opportunities, 1196

Gwyneth Lewis, Lesley Regan, Chelsea Morroni, and Eric R.M. Jauniaux

Appendix I

Normal Values in Pregnancy and Ultrasound Measurements, 1214

Henry L. Galan and Laura Goetzl

Appendix II

Anatomy of the Pelvis, 1224

Steven G. Gabbe

Appendix III

Glossary of Key Abbreviations, 1225

Index, 1231

[†]Deceased.