

Part I. Prenatal Diagnosis

1. Prenatal Screening for Aneuploidy
2. Noninvasive Prenatal Screening
3. Prenatal Ultrasound
4. Fetal Echocardiography
5. Fetal MRI
6. Prenatal Diagnostic Procedures

Part II. Fetal Intervention: Medical and Surgical Techniques

7. Ethical Considerations in Prenatal Diagnosis and Fetal Treatment
8. Medical Fetal Intervention
9. Anesthesia for Fetal Intervention
10. Ultrasound Guided Fetal Intervention
11. Fetoscopic Surgery
12. Open Fetal Surgery
13. EXIT Procedures
14. Future Therapies and Innovations

Part III. Neonatal Physiology and Pharmacology

15. Neonatal Physiology and Pharmacology
16. Resuscitation of the Newborn
17. Nutritional Support of the Newborn
18. Ventilatory Support of the Newborn
19. Extracorporeal Membrane Oxygenation
20. Anesthesia in the Newborn

Part IV. Prenatal and Postnatal Conditions

All chapters in Part IV will have the following structure to ensure consistency between authors:

Prenatal Management

Diagnosis

Sonographic Imaging

MR Imaging

Echocardiography

Prenatal Natural History

Management of the Pregnancy

Fetal Interventions

Delivery Management

Site of Delivery

Mode of Delivery

Delivery Planning

Delivery Room Management

Postnatal Management
Postnatal Evaluation
Postnatal Imaging
Medical Management
Surgical Management
Outcomes
Genetics and Risk of Recurrence

A. Central Nervous System

21. Dandy Walker Malformation and Variants
22. Craniosynostosis
23. Encephalocele
24. Hydrocephalus
25. Vein of Galen Aneurysm
26. Myelomeningocele

B. Head and Neck

27. Cleft Lip and Palate
28. Micrognathia
29. Laryngeal and Tracheal Atresia and Stenosis
30. Vascular Malformations
31. Cervical Teratoma
32. Epignathus and Epulus

C. Thorax

33. Bronchopulmonary Sequestration
34. Congenital Pulmonary Airway Malformation
35. Mediastinal Masses
36. Congenital Diaphragmatic Hernia
37. Chylothorax
38. Pulmonary Agenesis
39. Bronchial Atresia and Congenital Lobar Emphysema
40. Tracheoesophageal Fistula and Esophageal Atresia
41. Congenital Esophageal Stenosis
42. Tracheomalacia

D. Cardiovascular

43. Arrhythmias
44. Aortic Stenosis
45. Hypoplastic Left Heart Syndrome
46. Pulmonic Atresia
47. Cardiomyopathy
48. Patent Ductus Arteriosus

- 49. Coarctation of Aorta
- 50. Vascular Rings
- 51. Heterotaxy
- 52. Pericardial and Intracardiac Tumors

E. Abdominal Wall Defects

- 53. Ectopia Cordis
- 54. Pentalogy of Cantrell
- 55. Omphalocele
- 56. Gastroschisis
- 57. Cloacal Exstrophy
- 58. Bladder Exstrophy

F. Abdomen

- 59. Esophageal Atresia and Tracheoesophageal Fistula
- 60. Choledochal Cyst
- 61. Biliary Atresia
- 62. Malrotation
- 63. Pyloric Stenosis and Atresia
- 64. Duodenal Stenosis and Atresia
- 65. Jejunoileal Atresias
- 66. Duplication Cysts
- 67. Meconium Cyst and Meconium Peritonitis
- 68. Necrotizing Enterocolitis