

Section I. DEVELOPMENTAL ANATOMY, DYSMORPHOLOGY, AND PHYSIOLOGY

1. Embryology
2. Morphologic Anatomy
3. Segmental Approach to Diagnosis
4. Dysmorphism and Genetics
5. Fetal and Transitional Circulation

Section II. PROBLEMS CAUSED BY HEART DISEASE

6. Congestive Heart Failure
7. Hypoxemia
8. Central Nervous System Sequelae of Congenital Heart Disease
9. Pulmonary Hypertension

Section III. DIAGNOSTIC TECHNIQUES

10. History, Growth, Nutrition, Physical Examination and Routine Laboratory Tests
11. Electrocardiography and Introduction to Electrophysiologic Techniques
12. Imaging Modalities
13. Cardiac Catheterization
14. Assessment of Ventricular and Myocardial Performance
15. Exercise Testing

Section IV. ALLIED DISCIPLINES

16. Anesthesia and Sedation for Pediatric Cardiac Procedures
17. Intensive Care Unit
18. Pediatric Cardiovascular Nursing

Section V. ACQUIRED HEART DISEASE

19. Common Outpatient Problems: Innocent Murmur, Chest Pain, Syncope
20. Preventive Heart Disease: Hypertension and Dyslipidemia in Childhood and Adolescence
21. Rheumatic Fever

22. Kawasaki Syndrome
23. Cardiomyopathies
24. Pericardial Diseases
25. Infective Endocarditis
26. Cardiac Arrhythmias
27. Cardiac Excitability and Heritable Arrhythmias

Section VI. CONGENITAL HEART DISEASE

28. Ventricular Septal Defects
29. Pulmonary Stenosis
30. Tetralogy of Fallot
31. Aortic Outflow Abnormalities
32. Atrial Septal Defects
33. Patent Ductus Arteriosus
34. Coarctation of the Aorta
35. Transposition of the Great Arteries
36. Endocardial Cushion Defects
37. Cardiac Malpositions and the Heterotaxy Syndromes
38. Mitral Valve and Left Atrial Lesions
39. Hypoplastic Left Heart Syndrome, Mitral Atresia and Aortic Atresia
40. Pulmonary Atresia with Intact Ventricular Septum
41. Double-Outlet Right Ventricle
42. Single Ventricle
43. Tricuspid Atresia
44. Tricuspid Valve Problems
45. Truncus Arteriosus
46. Total Anomalous Pulmonary Venous Return
47. Aortopulmonary Window

48. Origin of a Pulmonary Artery from the Aorta (Hemitruncus)
49. "Corrected" Transposition of the Great Arteries
50. Vascular Fistulae
51. Coronary Artery Anomalies
52. Vascular Rings and Slings
53. Cardiac Tumors
54. Adult Congenital Heart Disease
55. Infant Cardiac Surgery
56. Management of the Univentricular Heart
57. Video/Robotic-Assisted Thoracic surgery: Extra Corporeal Membrane Oxygenation
58. Current and Future Cardiovascular Organ and Tissue Replacement Therapies