Contents

List of Contributors   vii

1 The Fetal Circulation and Patent Ductus Arteriosus  1
Timothy J. Jones

2 Essentials of Paediatric Cardiopulmonary Bypass  5
Timothy J. Jones

3 Imaging in Congenital Heart Disease  9
Oliver Stumper

4 Arterial Shunts and Pulmonary Artery Banding  14
David J. Barron

5 Patent Arterial Duct  20
Phil Botha

6 Coarctation of the Aorta and Aortic Interruption  24
Natasha Khan

7 Atrial Septal Defects  30
Natasha Khan

8 Anomalous Pulmonary Venous Connection and Cor Triatriatum  34
Natasha Khan

9 Ventricular Septal Defects  40
Natasha Khan

10 Atrio-ventricular Septal Defects  44
David J. Barron

11 Tetralogy of Fallot  47
David J. Barron

12 Pulmonary Atresia with Major Aorto-pulmonary Collateral Arteries  52
David J. Barron

13 Pulmonary Atresia with Intact Ventricular Septum  57
David J. Barron

14 Aortic Valve Disease and Left Outflow Tract Obstruction  61
David J. Barron

15 Tricuspid Valve Abnormalities in Congenital Heart Disease  67
David J. Barron

16 Transposition of the Great Arteries  73
William J. Brawn

17 Double-Outlet Right Ventricle  78
David J. Barron

18 Congenitally Corrected Transposition of the Great Arteries  82
David J. Barron

19 Truncus Arteriosus  87
William J. Brawn

20 Hypoplastic Left Heart Syndrome  91
William J. Brawn

21 Cavo-pulmonary Shunts and the Fontan Circulation  96
David J. Barron

22 Vascular Rings  101
David J. Barron
# Contents

23 Hybrid Cardiac Surgical Procedures in Congenital Heart Disease 106
   Oliver Stumper

24 Extra-corporeal Membrane Oxygenation in Children 110
   Timothy J. Jones

25 Surgery for Adult Congenital Heart Disease 113
   David J. Barron

26 Transplantation for Congenital Heart Disease 118
   Phil Botha

Index 122

The colour plates are to be found between pp. 112 and 113