Contents

1. **Ultrasound and Fetal Anomalies** 1
   Frank A Chervenak, Asim Kurjak, Jose Maria Carrera

2. **Three-dimensional Sonography in the Evaluation of Normal and Abnormal Fetal Face** 25
   Asim Kurjak, Guillermo Azumendi Pérez

3. **Fetal Echocardiography** 56
   Badreldeen Ahmed, Milan Stanojević

4. **Prenatal Diagnostics of Fetal Abnormalities by Ultrasound and Color Doppler** 67
   Zehra Nese Kavak, Ertan Ozen, Alin Basgül Yigiter

5. **The Advantages of Three-dimensional Sonography in the Diagnosis and Assessment of Fetal Abnormalities** 94
   Zehra Nese Kavak, Ertan Ozen, Alin Basgül Yigiter, Alexandra Shera Lieb

6. **Prenatal Ultrasound Diagnosis in Turner Syndrome and Triploidy** 120
   Radu Vladareanu, Alina Veduta, Simona Vladareanu

7. **Bioethical Standards of Ultrasonographic and Invasive Prenatal Diagnosis: Practical Aspects** 131
   Jose Maria Carrera, Bernat Serra Zantop

8. **3D and 4D Ultrasound for Congenital Fetal Anomalies** 136
   Sonal Panchal

9. **Fetal Face Malformations in Ultrasound** 163
   Marek Pietryga, Kinga Toboła-Wróbel, Rafał Iciek, Jacek Brązert

10. **Three-dimensional Reconstruction of Normal Fetal Heart and Congenital Heart Disease** 181
    Toshiyuki Hata, Aya Koyanagi, Riko Takayoshi, Takahito Miyake, Kenji Kanenishi

11. **Microvasculature of Normal and Abnormal Placentas** 191
    Toshiyuki Hata, Aya Koyanagi, Riko Takayoshi, Takahito Miyake, Kenji Kanenishi

12. **Skeletal Dysplasias** 206
    Pamela Grant, Kenneth Ward

13. **Placenta** 211
    M Lisa Bartholomew, Ivica Zalud

14. **Congenital Cardiac Tumors** 227
    Aleksandar Ljubić, Ida Jovanović, Dušan Damnjanović, Milica Đurđić, Andjela Perović, Milena Srbinović, Dušica Petrović, Tatjana Božanović

15. Congenital Lung Anomalies 235
Aleksandar Ljubić, Ida Jovanović, Dušan Damnjanović, Milica Đurđić, Andjela Perović, Milena Srbinović, Dušica Petrović, Tatjana Božanović

16. Prenatal Diagnosis of Conjoined Fetuses 248
Apostolos Athanasiadis, Panayiota Papasozomenou, Themistoklis Mikos, Menelaos Zafrakas

17. Fetal Brain Structure and Central Nervous System Anomalies 258
Ritsuko K Pooh

18. Embryonal/Fetal Anomalies in the First Half of Pregnancy 280
Ritsuko K Pooh

19. Gastrointestinal Tract and Internal Abdominal Wall 298
Fernando Bonilla-Musoles, Luiz Eduardo Machado

Index 323