Contents

1. What is Cardiotocography? 1
2. Pioneers of Cardiotocography 3
3. Scope of Use of Cardiotocography 5
4. The Need for Cardiotocographic Monitoring 10

5A. Methods Used for Picking-up Fetal Heart Activity 15

5B. A New Species of Cardiotocography Machine 42

6. Methods of Picking-up Uterine Activity: Tocography 45
7. General Description of CTG Machine and its Various Switches, Control, and Displays 54
8. How to Choose a Machine? 70
9. Electrical Requirement and Environment 76
10. Machine Testing by the User 79
11. Machine Servicing 81
12. Cardiotocography Interpretation: Theoretical Considerations 83
13. CTG Interpretation—Examples of Tracings and Analysis—"CTG Made Easy" 131
14. Problems in Interpretation of Cardiotocography and Solution 193
15. Applied Cardiotocography: Antenatal 197
16. Uterine Activity: Normal and Abnormal 214
17. Applied Cardiotocography: Intranatal 225
18. Fetal Sleep, Rest, Activity, and Cardiotocography 242

19. Fetal Vibroacoustic Stimulation Test by Cardiotocography 248
20. Computer Analysis and Use of Artificial Intelligence: AI on Cardiotocography Trace 262
21. Cardiotocography cum Fetal Electrocardiogram: An Approach Toward Precision 271
22. Nonreassuring Cardiotocography Trace 278
23. Beyond Cardiotocography 286
24. Role of Cardiotocography for Patients Getting Epidural Analgesia in Labor 291
25. Effects of Narcotic Drugs on Cardiotocography 295
26. Special Problems of Cardiotocography Monitoring of Preterm Pregnancy 298
27. Monitoring Twins by Cardiotocography 302
28. Cardiotocography through Telemetry 306
29. Clinical Considerations in Interpretation of Abnormal Trace and its Management 308
30. Medicolegal Considerations of Cardiotocography 316
31. Drawbacks and Deficiencies of Cardiotocography Monitoring 321
32. Place of Cardiotocography Today 326
33. Special Features of Cardiotocography of Second Stage of Labor 338
34. NICE Guidelines for Cardiotocography Interpretation 341
35. Cardiotocography, Biophysical Profile, and Doppler: Comparative Scope and Interrelation 344

36. Cardiotocography and Fetal Acidosis 347

37. Cardiotocography and Cerebral Palsy.....349

38. Assumptions and Presumptions about Cardiotocography Monitoring 351

39. Training and Education for Cardiotocography Interpretation 353

40. Cardiotocography: Complications and Contraindications.....355

Recommended Further Reading.....357

Index 359