CONTENTS

1. Pediatric History Taking and Physical Examination 1

- Profile of the Child 2
- Immunization History 2
- Physical Examination 3
- Case Presentation 6

2. Family Assessment 9

- The Family History 9
- Observation 11
- Interviewing Technique 11
- Phases of Interview 11
- Family History 12

3. Nutrition Assessment 15

- Nutrition Assessment 15
- Physical Assessment 16
- Anthropometric Measurements 16
- Biochemical Indices 18

4. Newborn Assessment 20

- Purposes and Precautions 20
- Immediate Examination at Birth 21

5. Anthropometry Measurements 26

- Definitions 27
- Anthropometric Measurements 27

6. Developmental Assessment 36

- Development 36
- Assessment of Development 37
- Development of Newborn 37
- Reflexes of Newborn 37
- Important Milestones at Glance 40
- Language Development 40
- Developmental Screening Test 41
- Denver Development Examination 43

7. Assisting with Common Diagnostic Procedures 46

- Definition 46
- Throat Swab Specimen Collection 48
- Sputum Specimen Collection 49
- Stool Specimen Collection 50
- Venepuncture 52
- Blood Cultures 53

8. Monitoring of Babies 57

- Aim 57
- Observations and Monitoring 58
- Management 61
- Parent Engagement 62

9. Kangaroo Mother Care 64

- Definition 64
- Components of KMC 65

10. Methods of Feeding 70

- Principles of Feeding Children 71
- Breastfeeding 71
- Bottle Feeding 72
- Spoon/Paladi/Katori (Cup) Feeding 73
- Gavage Feeding 73
- Gastrostomy Feeding 76
- Gastrojejunal Feeding 77

11. Drug Administration 79

- Oral Administration of Medications to Children 79
- Intramuscular Drug Administration 84
- Fluid Calculation for IV Infusion 88
- Exchange Transfusion 92
- Total Parenteral Nutrition 99

12. Pediatric Drug Calculation 104

- Metric Units 104
- Dosage Calculations 105
- Volume of Drug to Give 106
- Percentage Calculations 107
- Ratio Calculation 108

13. Oral Rehydration Therapy 112

- Definition 112
- Recommended Home Fluids 112
- How to Prepare ORS? 113

14. Empowering Parents on Prevention of Malnutrition in Children 117
- Teaching Mothers/Parents: Feeding and Weaning 118

15. Empowering Parents on Immunization 121
- Do's and Don'ts during Immunization 121
- Immunization Schedule, Source—WHO 2013 122

16. Urine Specimen Collection 124
- Definition 124
- General Principles 124
- In Elder Children 127
- In an Infant 127
- Nursing Responsibility 128

17. Restraints 130
- Definition 130
- Types of Restraints 131
- Hazards of Restraints 134

18. Play Needs for Different Age Groups 136
- Functions of Play 137
- Development Role of Play 138
- Types of Play According to Socialization 139
- Toy Safety 142
- Selection of Play Materials for Different Age Groups 143
- Therapeutic Play During Bedside Care 146

19. Care of Child with Phototherapy 148

20. Care of the Child in Incubator 152
- Thermoregulation 153
- The Neutral Thermal Environment 154

21. Care of the Child in Radiant Warmer 159

22. Ostomy Care 162
- Colostomy Care and Irrigation 162
- Urostomy Care 168
- Gastrostomy Care 169
- Ureterostomy and Enterostomy Care 172
- Enterostomy Care 175
- Documentation 177

23. Care of Surgical Wounds, Dressing and Suture Removal 179
- Definition 179
- Purposes of Dressings 179
- Types of Dressings Used 179

24. Catheterization in Children 184
- Procedure for Pediatric Urinary Catheterization General Guidelines 187

25. Insertion of Suppositories 191
- Definition 191
- Ideal Suppository Measures 191
- Equipment 192
- Indications 192
- Contraindications 192
- Pre-procedure Guidelines 192
- Complications 194

26. Oxygen Administration in Children 196
- Oxygen therapy 197
- Indications 197
- Methods of Oxygen Therapy 198

27. Cardiopulmonary Resuscitation 205
- Objectives 205
- Purposes 206
- Indications 206
- Preparation for Resuscitation 206
- Equipment Required 206
- The TABC of Resuscitation 207
- Signs to Evaluate for Resuscitation 207
- Initial Steps of Resuscitation 207
- Positive Pressure Ventilation Bag and Mask 209
- Technique of Positive Pressure Ventilation 209
- Chest Compression 210
- Technique of Chest Compression 210

28. Endotracheal Intubation 213
- Indications 213
- Technique of Intubation 213
- Procedure of Endotracheal Intubation 214
- Orotracheal Intubation 214
- Medications 215

29. Endotracheal Tube Suctioning 217
- Definition 217

- Indications for Suctioning 217
- Essential Equipment 218
- Nurses Responsibilities 222

30. Care of Child on Ventilator 225

- Indications 225
- Definitions 226
- Types of Ventilatory Support 227
- Care of Infants on Ventilator 228
- Ventilator Sighs 229
- Endotracheal Tube Suction 229
- Complications During Ventilation 230
- Bradycardia During Ventilation 231
- Extubation 231

31. Intravenous Therapy 234

- Indications for IV Therapy 234
- Common IV Solutions 234
- Common IV Additives 235
- Equipment 235
- Preparations 235
- Hints for Prolonged IV Infusions 236

32. Blood-Drawing Technique in the Neonate 238

- Heel Puncture 238
- Blood-Drawing Techniques in the Neonate 239
- Complications 240
- Arterial Puncture 242

33. Central Venous Catheters and Long Lines 245

- Definitions 245
- Procedure if Intralipid is Used 247

34. Umbilical Arterial Catheterization 249

- Indications 249
- Complications 251

35. Umbilical Vein Catheterization 254

- Arterial/Venous Catheter Insertion: Umbilical 255
- Documentation 257

36. Umbilical Cord Blood Collection and Analysis 259

- At Birth 260
- Background Information 260
- Post-Birth Specimen Collection/ Examination 260
- Normal Cord Blood Gas and pH (During and Post-Labor) 262

37. Thoracic Drainage for Tension Pneumothorax 264

- Indications 265
- The Nurse's Role in Managing Unplanned Chest Drain Events 268

Bibliography 271
Index 273