

# TABLE OF CONTENTS

---

## SECTION I

Introduction, 1

### CHAPTER 1

---

Clinical Approach to Deformation Problems: Malformations, Deformations, Disruptions, and Dysplasias, 3

## SECTION II

Patterns of Deformation, 23

### CHAPTER 2

---

Foot Deformations: Foot Contractures, Positional Foot Abnormalities, 25

### CHAPTER 3

---

Calcaneovalgus (Pes Planus), 30

### CHAPTER 4

---

Metatarsus Adductus (Metatarsus Varus), 34

### CHAPTER 5

---

Talipes Equinovarus (Clubfoot), 39

### CHAPTER 6

---

Deformed Toes, 47

### CHAPTER 7

---

Flexible Flatfoot, 49

## SECTION III

Other Lower Extremity Deformations, 53

### CHAPTER 8

---

Tibial Torsion, 55

### CHAPTER 9

---

Femoral Anteversion, 61

## SECTION IV

Joint Dislocations, 65

### CHAPTER 10

---

Joint Dislocation, 67

### CHAPTER 11

---

Developmental Dysplasia of the Hip (Congenital Dislocation of the Hip), 69

### CHAPTER 12

---

Knee Dislocation (Genu Recurvatum), 79

### CHAPTER 13

---

Dislocation of the Radial Head, 84

## SECTION V

Neurapraxias (Palsies), 87

### CHAPTER 14

---

Facial Palsy, 89

### CHAPTER 15

---

Brachial Plexus Palsy, 93

### CHAPTER 16

---

Diaphragmatic Paralysis: Diaphragmatic Eventration, 98

### CHAPTER 17

---

Other Peripheral Nerve Palsies, 100

## SECTION VI

Thoracic Cage and Spinal Deformations, 103

### CHAPTER 18

---

Lung Hypoplasia, 105

**CHAPTER 19****Pectus Excavatum and Pectus Carinatum, 110****CHAPTER 20****Scoliosis, 116****SECTION VII****Head and Neck Deformations, 123****CHAPTER 21****Nose Deformation, 125****CHAPTER 22****External Ears, 129****CHAPTER 23****Mandibular Deformation, 136****CHAPTER 24****Congenital Muscular Torticollis, 143****CHAPTER 25****Torticollis-Plagiocephaly Deformation  
Sequence: Nonsynostotic or  
Positional Plagiocephaly, 155****CHAPTER 26****Infant Sleeping Position and Sudden Infant  
Death Syndrome, 171****CHAPTER 27****Positional Brachycephaly, 176****CHAPTER 28****Other Postnatal Head Deformations, 185****SECTION VIII****Craniosynostosis, 189****CHAPTER 29****Craniosynostosis: General, 191****CHAPTER 30****Sagittal Craniosynostosis, 200****CHAPTER 31****Coronal Craniosynostosis, 207****CHAPTER 32****Metopic Craniosynostosis, 218****CHAPTER 33****Lambdoidal Craniosynostosis, 225****CHAPTER 34****Multiple Sutural Craniosynostosis, 232****SECTION IX****Cranial Bone Variations, 241****CHAPTER 35****Vertex Birth Molding, 243****CHAPTER 36****Vertex Craniotabes, 250****CHAPTER 37****Anterior Fontanel Bone, 254****CHAPTER 38****Parietal Foramina, 257****CHAPTER 39****Aplasia Cutis Congenita: Scalp Vertex Cutis  
Aplasia, Temporal Triangular Alopecia, 260****CHAPTER 40****Cephalohematoma, 266****CHAPTER 41****Wormian Bones, 271****SECTION X****Abnormal Birth Presentation, 275****CHAPTER 42****Breech Presentation Deformation, 277****CHAPTER 43****Transverse Lie Deformation, 290**

**CHAPTER 44**

---

**Face and Brow Presentation  
Deformation, 293****SECTION XI****Whole-Body Deformation or  
Disruption, 299****CHAPTER 45**

---

**Small Uterine Cavity Deformation: Bicornuate  
or Myomatous Uterus, 301****CHAPTER 46**

---

**Oligohydramnios Sequence, 310****CHAPTER 47**

---

**Fetal Akinesia Deformation  
Sequence, 318****CHAPTER 48**

---

**Abdominal Pregnancy (Extrauterine  
Pregnancy), 326****CHAPTER 49**

---

**Early Embryonic Compression or  
Disruption, 331****CHAPTER 50**

---

**Obstetric Procedure–Related Defects, 340****SECTION XII****Mechanics in Morphogenesis, 347****CHAPTER 51**

---

**Principles of Human Biomechanics, 349****Index, 384**