

---

# Congenital Malformations of the Hand and Forearm

---

BIBLIOTECA  
A.A.O.T.

15 MAR. 2001

Dieter Buck-Gramcko

Emeritus Professor and Former Chief  
Unit for Hand Surgery  
Children's Hospital, Wilhelmstift, Hamburg and  
Former Chief, Department of Hand Surgery and Plastic Surgery  
Accident Hospital, Hamburg, Germany



CHURCHILL LIVINGSTONE

*A Division of Harcourt Brace & Company*  
London Edinburgh Philadelphia Sydney Toronto

WE  
830  
1455

1998

---

# Contents

---

## SECTION I

---

### **Etiology and Incidence**

#### CHAPTER 1

#### **Inheritance and Other Possible Causes of Congenital Deformities, 3**

*Douglas W. Lamb • Ruth Wynne-Davies*

#### CHAPTER 2

#### **New Ideas on Classification of Congenital Malformations, 9**

*Takayuki Miura*

#### **Appendix to Chapter 2, 17**

*Dieter Buck-Gramcko*

#### CHAPTER 3

#### **Incidence and Genetics, 21**

*Douglas W. Lamb • Ruth Wynne-Davies*

## SECTION II

---

### **General Treatment and Procedures**

#### CHAPTER 4

#### **Nonoperative Treatment, 31**

*Ernst Marquardt • Bernd Fromm • Gabriele Neermann-Klinkert*

#### CHAPTER 5

#### **Basic Principles of the Prosthetic Needs of the Unilateral Distal Congenital Amputee, 41**

*Jean Pillet*

#### CHAPTER 6

#### **Psychological Issues for Children and Their Parents, 49**

*Eileen Bradbury*

#### CHAPTER 7

#### **Angiography, 57**

*Yasuo Ueba • Yasuaki Sudo*

#### CHAPTER 8

#### **Microvascular Procedures, 63**

*Alain Gilbert*

#### CHAPTER 9

#### **Distraction Treatment of the Forearm, 73**

*Dror Paley • John E. Herzenberg*

#### CHAPTER 10

#### **Distraction Treatment of the Hand, 119**

*William H. Seitz, Jr.*

## SECTION III

---

### **Deformities of the Hand**

#### CHAPTER 11

#### **Syndactyly, 131**

*Errol Ger*

#### CHAPTER 12

#### **Syndactyly Between the Thumb and Index Finger, 141**

*Dieter Buck-Gramcko*

#### CHAPTER 13

#### **Symbrachydactyly, 149**

*Yasuo Yamauchi • Seiitsu Tanabu*

#### CHAPTER 14

#### **Apert Syndrome, 159**

*Walter Blauth • Axel Falliner*

#### CHAPTER 15

#### **Ring Constriction Syndrome, 169**

*Anthony J.J. Emmett • Ann Morris*

#### CHAPTER 16

#### **Macroductyly, 183**

*Toshihiko Ogino*

#### **Appendix to Chapter 16, 194**

*Dieter Buck-Gramcko*

## CHAPTER 17

**Cleft Hand, 199***Yasuo Ueba*

## CHAPTER 18

**Polydactyly: Terminology and Classification, 217***Terry R. Light • Dieter Buck-Gramcko*

## CHAPTER 19

**Thumb Duplication, 225***Yoshikazu Ikuta*

## CHAPTER 20

**Central Polydactyly, 237***Dieter Buck-Gramcko*

## CHAPTER 21

**Ulnar Polydactyly, 265***Terry R. Light • Dieter Buck-Gramcko*

## CHAPTER 22

**Mirror Hand, 271***Nicholas Barton*

## CHAPTER 23

**Hyperphalangism of the Fingers, 279***Dieter Buck-Gramcko*

## CHAPTER 24

**Congenital Contractures, 295***Hiroaki Senrui***Appendix to Chapter 24, 310***Dieter Buck-Gramcko*

## CHAPTER 25

**The Windswept Hand, 313***H. Relton McCarroll, Jr. • Paul R. Manske*

## CHAPTER 26

**Absent Tendons Excluding Thumb Deformities, 327***Graham Lister*

## CHAPTER 27

**Bone and Joint Deformities, 331***Toshihiko Ogino*

## CHAPTER 28

**Onychodysplasia, 351***Hiroaki Senrui*

## SECTION IV

**Deformities of the Thumb**

## CHAPTER 29

**Hypoplasia of the Thumb, 359***Graham Lister*

## CHAPTER 30

**Reconstruction of the Floating Thumb, 369***Tatsuya Tajima*

## CHAPTER 31

**Abductor Digiti Minimi Opponensplasty, 375***Alain Gilbert • Christophe Oberlin*

## CHAPTER 32

**Pollicization, 379***Dieter Buck-Gramcko*

## CHAPTER 33

**Triphalangeal Thumb, 403***Dieter Buck-Gramcko*

## CHAPTER 34

**Flexion Deformities of the Thumb, 425***Takayuki Miura*

## SECTION V

**The Upper Extremity**

## CHAPTER 35

**Radial Club Hand, 433***Paul R. Manske • H. Relton McCarroll, Jr.*

## CHAPTER 36

**Congenital Absence of the Ulna, 449***Robert E. Carroll*

## CHAPTER 37

**Congenital Elbow Contractures, 463***Virchel E. Wood*

## CHAPTER 38

**Congenital Elbow Dislocations, 487***Virchel E. Wood*

## CHAPTER 39

**Congenital Radio-Ulnar Synostosis, 509***Virchel E. Wood***Appendix to Chapter 39, 516***Dieter Buck-Gramcko*

## CHAPTER 40

Arteriovenous Malformations in the Hand and  
Upper Limb, 519*Tatsuya Tajima*

## CHAPTER 41

## Epidermolysis Bullosa, 525

*Paul Smith • Mazar Nizam • Rachel Hall • Fiona Mullett*

## CHAPTER 42

Treatment of Arthrogryposis Affecting the  
Upper Extremity, 535*Richard J. Smith • Joseph E. Sheppard • James Aronson*

## INDEX, 545