

# Contents

## **1 High-Resolution Industrial Radiographs: An Introduction**

Historical Context 2

Industrial Film Performance Results 3

## **2 Normal Hand and Variants**

2.1 Standard Projections 10

2.2 Normal Child 12

2.3 Normal Teenager 14

2.4 Variants 16

## **3 Soft Tissue Lesions**

3.1 Chondrocalcinosis 26

3.2 Extraskeletal Chondroma 28

3.3 Joint Contractures 30

3.4 Metastatic Soft Tissue Calcification 31

3.5 Soft Tissue Edema 32

3.6 Vascular Calcification 34

## **4 Soft Tissue Lesions Involving Bone**

4.1 Extraskeletal Chondroma 38

4.2 Gout 40

4.3 Scleroderma 42

## **5 Cortical and Periosteal Lesions**

5.1 Epidermoid Cyst 46

5.2 Osteochondroma 48

5.3 Osteoid Osteoma 50

5.4 Osteoporosis 52

- 5.5 Periosteal Enchondroma 54
- 5.6 Periostitis Ossificans 56
- 5.7 Renal Osteodystrophy: Subperiosteal Resorption 60
- 5.8 Renal Osteodystrophy: Severe 62

## **6 Articular Lesions**

- 6.1 Gout 66
- 6.2 Juvenile Chronic Arthritis 68
- 6.3 Multicentric Reticulohistiocytosis 70
- 6.4 Osteoarthritis 72
- 6.5 Osteoarthritis: Early 77
- 6.6 Osteoarthritis: Erosive 80
- 6.7 Osteoarthritis: Loose Body 84
- 6.8 Osteoarthritis: Primary 86
- 6.9 Osteoarthritis: Severe 89
- 6.10 Osteoarthritis: Thumb 92
- 6.11 Osteoarthritis: Ulnar Styloid 94
- 6.12 Psoriasis 96
- 6.13 Pyrophosphate Arthropathy 100
- 6.14 Rheumatoid Arthritis: Carpal 102
- 6.15 Rheumatoid Arthritis: Early 104
- 6.16 Rheumatoid Arthritis: Moderate 106
- 6.17 Rheumatoid Arthritis: Severe 110
- 6.18 Systemic Lupus Erythematosus 112

## **7 Associated Articular and Soft Tissue Lesions**

- 7.1 Amyloidosis and Renal Osteodystrophy 116
- 7.2 Calcium Pyrophosphate Dihydrate Deposition Disease 118
- 7.3 Vascular Calcification and Renal Osteodystrophy 120

## **8 Bone Lesions**

- 8.1 Generalized 124
- 8.2 Multiple 138
- 8.3 Solitary 148

## **Bibliography 169**

## **Subject Index 171**

High-Resolution Radiographs of the Hand

Guglielmi, G.; Peh, W.C.G.; Cammisa, M.

2009, XVIII, 175 p. 213 illus., Hardcover

ISBN: 978-3-540-79479-0