

# Contents

---

<b>General Background</b>	1
1 Radiobiological Principles K.-R. TROTT, F.-H. KAMPRAD, and G. HILDEBRANDT	3
2 Side Effects and Long-Term Risks from Radiotherapy of Benign Diseases K.-R. TROTT and F.-H. KAMPRAD	29
3 Risk Assessment and Carcinogenesis Modelling J. J. BROERSE, J. T. M. JANSEN and J. ZOETELIEF	45
4 Radiophysical Principles U. WOLF and T. WIEZOREK	59
5 Clinical Principles M. H. SEEGENSCHMIEDT and U. SCHÄFER	89
6 Irradiation of Non-Malignant Diseases: A Survey J. W. H. LEER, P. VAN HOUTTE and J. DAVELAAR	121
7 Patterns of Care Study for Non-Malignant Diseases in Germany M. H. SEEGENSCHMIEDT, O. MICKE, and the German Cooperative Group on Benign Diseases (GCG-BD)	133
<b>Skin and Soft Tissue Disorders</b>	145
8 Tumors, Hyperplasia, Dermatoses R. G. PANIZZON, R. O. MIRIMANOFF, and M. H. SEEGENSCHMIEDT	147
9 Morbus Dupuytren / Morbus Ledderhose M. H. SEEGENSCHMIEDT	161
10 Peyronie's Disease L. INCROCCI	193
11 Keloids and Hypertrophic Scars B. GUIX, A. ANDRÉS, P. SALORT, J. I. TELLO, I. HENRÍQUEZ, J. A. LEJÁRCEGUI, and M. H. SEEGENSCHMIEDT	209
12 Aggressive Fibromatosis/Desmoid Tumors O. MICKE, H. T. EICH, F. BRUNS, J. HEIDE, G. GOSHEGER, and M. H. SEEGENSCHMIEDT	225

---

<b>Bone and Joint Disorders</b> .....	235
13 Orthopaedic Examination, Tests and Clinical Scores O. MICKE and M. H. SEEGENSCHMIEDT .....	237
14 Rotator Cuff Syndrome (RCS) B. ADAMIETZ.....	261
15 Humeral Epicondylopathia (HEP), Lateral and Medial Humeral Epicondylitis M. H. SEEGENSCHMIEDT, FELICITAS GUNTRUM and H. KRAHL.....	281
16 Calcaneodynia: Plantar and Dorsal Heel Spur/Heel Spur Syndrome O. MICKE, A. ERNST-STECKEN, R. MÜCKE and M. H. SEEGENSCHMIEDT .....	295
17 Degenerative Joint Disease/Activated Osteoarthritis Deformans: Hip/Knee/Shoulder/Other Joints G. HILDEBRANDT and F.-H. KAMPRAD .....	317
18 Heterotopic Ossifications: General Survey for All Sites M. H. SEEGENSCHMIEDT, O. MICKE and R. HEYD .....	333
19 Heterotopic Ossification Prophylaxis - The Hip O. KÖLBL, W. E. ALBERTI, and M. H. SEEGENSCHMIEDT .....	357
20 Heterotopic Ossifications after Head and Spinal Cord Injuries (HSCI) M.-L. SAUTTER-BIHL, P. LUKAS, E. LIEBERMEISTER, D. MAIER and A. NANASSY ...	373
21 Pigmented Villonodular Synovitis (PVNS) R. OPPENKOWSKI and M. H. SEEGENSCHMIEDT .....	383
22 Langerhans Cell Histiocytosis (LCH) T. OLSCHESKI, O. MICKE and M. H. SEEGENSCHMIEDT .....	397
23 Vertebral Hemangiomas (SVH) R. HEYD and M. H. SEEGENSCHMIEDT .....	425
24 Aneurysmal Bone Cyst (ABC) R. HEYD and M. H. SEEGENSCHMIEDT .....	441
<b>Vascular Disorders</b> .....	457
25 Giant Hemangioma/Kasabach-Merritt Syndrome P. SCHUELLER, S. HESSELMANN and O. MICKE .....	459
<b>Eye Disorders</b> .....	467
26 Graves' Orbitopathy S. STAAR, H. T. EICH and M. H. SEEGENSCHMIEDT .....	469
27 Pseudotumor Orbitae M. NOTTER and K. M. GREVEN .....	487

---

28 Pterygium R. H. GREINER, B. PAJIC and J. KUTZNER .....	501
29 Hemangiomas and Vascular Tumors of the Eye M. MURTY, J. E. FREIRE, C. L. SHIELDS, J. A. SHIELDS, A. MASHAYEKHI, and L. W. BRADY .....	513
<b>Local and Systemic Inflammatory Disorders</b> .....	521
30 Inflammatory Disorders: Furunculitis, Hidradenitis, Panaritium and Paronychia D. FRÖHLICH, D. BAASKE and M. GLATZEL .....	523
31 Lymphocutaneous Fistulas and Lymphoceles B. NEU and W. HAASE .....	537
32 Local Rheumatoid Arthritis and Radiation Synevectomy G. M. KACL and G. STUCKI .....	547
<b>Head and Neck</b> .....	563
33 Non-Malignant Disorders of the Head Region R. OPPENKOWSKI and M. H. SEEGENSCHMIEDT .....	565
<b>CNS and Brain</b> .....	581
34 Arterio-Venous Malformation M. W. GROSS and R. ENGENHART-CABILIC .....	583
35 Meningeoma S. MILKER-ZABEL and J. DEBUS .....	609
36 Vestibular Schwannoma (Acoustic Neuroma) A.-L. GROSU, E. OESTREICHER, C. FAUSER, C. LUMENTA, W. J. ARNOLD and M. MOLLS .....	629
37 Pituitary Adenoma D. ZIERHUT .....	653
38 Trigeminal Neuralgia M. ATTASSI, M. H. SEEGENSCHMIEDT, and M. KÖRNER.....	665
39 Radiosurgical Treatment Options for Epileptic Disorders H. G. WIESER .....	679
40 Where There is No Evidence: Registry for Rare Benign Diseases O. MICKE, A. KOEHLER and M. H. SEEGENSCHMIEDT .....	701
Subject Index .....	725
List of Contributors .....	737