



Bone Metastases [A translational and Clinical Approach /

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Medicine

Cancer research

Oncology

Biomedicine

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Biomedicine general

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Monografía

The second edition of this book serves both as an introductory and reference book focusing on the field of metastatic bone disease. Featuring contributions from experts in the field, this volume describes the molecular and cellular mechanisms involved in the formation of bone metastases, presents the newer advances made in the understanding of the clinical picture and symptoms of patients, analyses the role of bone markers in research and clinical practice and deals with all aspects of imaging modalities applied for the detection and evaluation of bone metastases. Moreover, the use of all available treatment methods, such as radiotherapy, surgery and systemic treatments for the management of patients with metastatic bone disease is discussed in detail. Overall this volume presents a thorough overview of all aspects of metastatic bone disease and provides a comprehensive and concise information resource for researchers, oncologists, orthopaedic surgeons and clinicians dealing with patients with metastatic bone disease

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Contenido: Preface. I Fundamental Concepts -- Pathophysiology of metastatic bone disease -- Bone metastases: epidemiology, clinical picture, SREs and prognosis -- Pain in bone metastases: types and mechanisms. II

Investigations Of Bone Metastases -- Radiological evaluations: radiography, CT, MRI.-Nuclear medicine imaging modalities: bone scintigraphy, PET-CT, SPECT.-Bone turnover markers -- New omics approaches for bone metastases. III Therapeutic Management.-Analgesic treatment for bone mets -- Radiotherapy: external beam and radio-surgery -- Radionuclide therapy -- Bisphosphonates -- New targeted therapies for bone metastases -- Chemotherapy and hormone therapy -- HIFU/Radioablation -- Neuropathic bone metastases -- Spinal cord compression and cauda equina compression -- Pathological and impending fracture -- Re-irradiation -- Bone metastases in elderly patients -- Management of metastatic bone disease in the elderly with bisphosphonates and RANKL inhibitors: effectiveness and safety. IV Assessment of Therapeutic Response -- Radiological and nuclear medicine imaging modalities.-Clinical assessment measures -- Outcome measures in bone metastases clinical trials -- Quality of life in patients suffering from metastatic skeletal disease. V Cost of Managing Metastatic Bone Disease -- Cost effectiveness of treatment modalities for bone metastases -- Index

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