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Titolo	Central Nervous System Metastases : Diagnosis and Treatment // edited by Rohan Ramakrishna, Rajiv S. Magge, Ali A. Baaj, Jonathan P.S. Knisely
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Epidemiology and Socioeconomic Impact of CNS Metastases -- Basic Biology of Brain Metastasis -- Preclinical Models of Brain Metastasis -- Pathology of Brain Metastases -- Role of Precision Medicine in Patients With CNS Metastasis -- Classification of Brain Metastases -- The Role of Advanced Imaging in the Management of Brain Metastases -- Clinical Presentation of Central Nervous System Metastases -- Management of Seizures in Brain Metastases -- Cerebrovascular Complications in Patients With Cancer -- Mood Disorders in Patients With CNS Metastases -- Leptomeningeal Disease and the Role of Intrathecal Therapy -- Paraneoplastic Neurological Disorders -- Systemic Therapy of Brain Metastases: Lung Cancer -- Systemic Therapy of Brain Metastases: Breast Cancer -- Systemic Therapy for Brain Metastases: Melanoma -- Systemic Therapy for Brain Metastases in Other Primary Cancers (Genitourinary, Gastrointestinal, Gynecology, Head/Neck) -- Management of Solid Tumor CNS Metastases in Children -- Basic Radiobiology and Radiation Physics Primer -- Role of Whole Brain Radiotherapy -- Stereotactic Radiosurgery Technology -- Stereotactic Radiosurgery - Indications and Outcomes in Central Nervous System

and Skull Base Metastases -- Hypofractionated Stereotactic Radiosurgery (HF-SRS) in the Treatment of Brain Metastases -- Challenges and Controversies in Stereotactic Radiosurgery -- Synergy of Immunotherapy and Radiosurgery -- Salvage Irradiation for Patients With Recurrent Brain Metastases -- Applications of Stereotactic Radiosurgery for Brain Metastases -- Radiation Necrosis Following the Radiosurgical Treatment of Brain Metastases -- Neurocognitive Effects of Brain Metastases and Their Treatment -- The Role of Surgery in the Management of Brain Metastases -- Intraoperative Brachytherapy for Resected Brain Metastases -- Laser Interstitial Thermal Therapy for Brain Metastases and Radiation Necrosis -- Preventing Cranial Wound Complications in Cancer Patients -- Introduction to Spinal Metastases -- Epidemiology of Spinal Metastatic Disease -- Bone Metabolism in Cancer -- Systemic Therapies for Patients With Metastatic Spinal Disease -- The Role of Advanced Imaging in Spinal Metastases -- Decision Making Algorithms for Surgical Treatment of Spine Metastatic Disease -- Biomechanics of Spinal Fixation in Metastatic Disease -- Separation Surgery for Spinal Metastases -- Vertebroctomy for Spinal Metastases -- Minimally Invasive Surgery for Spinal Metastases -- Deformity Secondary to Vertebral Body Metastases -- Postoperative Complications and Spinal Metastases -- Vertebral Augmentation Procedures for Treatment of Pathologic Vertebral Body Fractures -- Spinal Laser Interstitial Thermal Therapy for Metastatic Tumors -- Optimizing Wound Healing in Metastatic Spine Surgery -- Contemporary Radiation for Spinal Metastasis and Spinal Cord Compression -- Intraoperative Radiation for Spinal Metastatic Disease -- Approach to Pain in Patients with Central Nervous System Metastases -- Interventions for Refractory Pain in Cancer Patients -- Complementary and Integrative Therapies (CIM) in Patients With CNS Metastasis -- The Palliative Care of Patients With Brain Metastases.

Sommario/riassunto

This is a multi-specialty book on the diagnosis, evaluation, and treatment of CNS metastases of the brain and spine. Written by renowned experts in their fields, the book covers essential contemporary topics in CNS metastases care. The book is divided into seven parts that begin with chapters that cover the fundamental biology of disease so that subsequent chapters on imaging, diagnosis, treatment, and palliation can be properly contextualized. This text also provides a framework for understanding the biology of radiation therapy so that radiation treatment options of the brain and spine can be more fully understood. New medications and technologies are reviewed from the perspective of maximizing efficacy and minimizing toxicity, independently and as combinatorial therapy. Central Nervous System Metastases: Diagnosis and Treatment serves as a practical reference for health care providers and trainees. It provides the comprehensive, detailed perspective required to provide holistic care to patients with metastatic disease to the brain and spine.
