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Nota di contenuto	Part I: Basic Science -- Cancer Biology -- Molecular Targeting for Radionuclide Therapy -- Single-photon Emitting Radiopharmaceuticals for Diagnostic Applications -- Positron Emitting Radiopharmaceuticals for Diagnostic Applications -- Radiopharmaceuticals for Therapy -- Novel Single-photon Emitting Radiopharmaceuticalsfor Diagnostic Applications -- Novel Positron Emitting Radiopharmaceuticals -- Novel Radiopharmaceuticals for Therapy -- Physics of Nuclear Oncology -- Instrumentation for Single-photon Emission Imaging -- Instrumentation for Positron Emission Imaging. -Instrumentation for Intraoperative Detection -- Radiobiology and Radiation Dosimetry in Nuclear Medicine -- Part II: Clinical Applications -- Lymphomas: Diagnostic Applications -- Multiple Myeloma -- Leukemias: Diagnostic Applications -- Brain Tumors -- Head and Neck Cancer -- Thyroid Tumors: Diagnostic Applications -- Parathyroid Tumors -- Breast Cancer -- Lung and Mediastinal Tumors -- Esophageal Cancers -- Gastric Cancers -- Small Bowel Cancers -- Tumors of the Liver and Biliary Tract: Diagnostic Applications. - Pancreatic Cancer -- Colorectal Cancer -- Neuroendocrine Tumors: Diagnostic Applications -- Kidney and Bladder Cancer -- Prostatic Cancer -- Testicular Cancer -- Penile

Cancer -- Vulvar Cancer -- Uterine Cancers -- Ovarian Cancer -- Sarcomas -- Malignant Melanoma.– Pediatric Cancers: Diagnostic Applications -- Part III: Radionuclide Therapy.– Radionuclide Therapy of Thyroid Tumors -- Radionuclide Therapy of Lymphomas -- Radionuclide Therapy of Leukemias -- Neuroendocrine Tumors: Therapy with Radiolabeled Peptides -- Neuroendocrine Tumors: Therapy with 131I-MIBG -- Targeted Radionuclide Therapy for Bone Metastasis. - Radionuclide Therapy of Tumors of the Liver and Biliary Tract -- Radionuclide Therapy of Pediatric Cancers -- Part IV: Radioguided Surgery -- Radioguided Surgery for Breast Cancer -- Radioguided Surgery for Malignant Melanoma -- Radioguided Surgery: Novel Applications -- Part V: Heart Disease in the Cancer Patient -- Imaging the Heart in the Cancer Patient -- Part VI: Adverse Effects of Cancer Therapy -- Nuclear Medicine in the Assessment of Adverse Effects of Cancer Therapy in the Lung, Kidney, and Gastrointestinal Tract -- Part VII: Teaching Cases -- Lymphomas -- Multiple Myeloma. - Leukemias -- Brain Tumors -- Head and Neck Cancer -- Thyroid Tumors -- Parathyroid Tumors -- Breast Cancer -- Lung and Mediastinal Tumors -- Esophageal Cancers -- Gastric Cancers -- Small Bowel Cancers -- Tumors of the Liver and Biliary Tract. - Pancreatic Cancer -- Colorectal Cancer -- Neuroendocrine Tumors -- Kidney and Bladder Cancer -- Prostatic Cancer -- Testicular Cancer -- Penile Cancer -- Vulvar Cancer -- Uterine Cancers -- Ovarian Cancer. - Sarcomas -- Malignant Melanoma -- Pediatric Cancers -- Radioguided Surgery.

Sommario/riassunto

This book discusses the role of nuclear medicine in the diagnosis, staging, and treatment of patients with specific cancers. It presents the incidence, pathophysiologic and clinical aspects of the disease, the use of nuclear imaging in diagnosis, staging requirements, management of specific tumors, and surveillance after primary treatment of cancers. It addresses the various diagnostic/therapeutic options that are currently available or are most likely to become available in the near future according to a prioritized approach, thereby keeping to a minimum the number of diagnostic imaging procedures the patient is expected to undergo. Topics include basic science, clinical applications, radionuclide therapy, radioguided surgery, heart disease in the cancer patient, and adverse effects of cancer therapy. Each clinical chapter discusses the radionuclide procedures within an integrated framework, thereby identifying the information required for effective treatment of specific tumors. The book concludes with a series of cases that define and expand the didactic material in the clinical application chapters. Thoroughly updated and revised, the second edition incorporates advances in imaging and therapy and features the current staging guidelines of the American Joint Committee on Cancer. With contributions from a group of internationally distinguished practitioners, Nuclear Oncology: From Pathophysiology to Clinical Applications, Second Edition, is a valuable reference for nuclear medicine physicians, radiologists, medical and surgical oncologists, and other clinicians involved in the care and management of cancer patients.