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Nota di contenuto	Part I Basic Science -- Cancer Biology of Molecular Imaging -- Principles of 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 Radiopharmaceuticals for Diagnostic Applications -- Novel Positron-Emitting Radiopharmaceuticals -- Novel Radiopharmaceuticals for Therapy -- Physics of Nuclear Oncology -- Instrumentation for Positron Emission Imaging -- Instrumentation for Single-Photon Emission Imaging -- Instrumentation for Intraoperative Detection -- Radiobiology and Radiation Dosimetry in Nuclear Medicine -- Part II Diagnostic Applications of Nuclear Medicine -- Diagnostic Applications of Nuclear Medicine: Lymphomas -- Diagnostic Applications of Nuclear Medicine: Multiple Myeloma -- Diagnostic Applications of Nuclear Medicine: Leukemias -- Diagnostic Applications of Nuclear Medicine:

Brain Tumors.-Diagnostic Applications of Nuclear Medicine: Head and Neck Cancer -- Diagnostic Applications of Nuclear Medicine: Thyroid Tumors -- Diagnostic Applications of Nuclear Medicine: Parathyroid Tumors -- Diagnostic Applications of Nuclear Medicine: Breast Cancer -- Diagnostic Applications of Nuclear Medicine: Lung and Mediastinal Tumors -- Diagnostic Applications of Nuclear Medicine: Esophageal Cancers -- Diagnostic Applications of Nuclear Medicine: Gastric Cancers -- Diagnostic Applications of Nuclear Medicine: Gastrointestinal Stromal Tumors -- Diagnostic Applications of Nuclear Medicine: Tumors of the Liver and Biliary Tract -- Diagnostic Applications of Nuclear Medicine: Pancreatic Cancer -- Diagnostic Applications of Nuclear Medicine: Colorectal Cancer -- Diagnostic Applications of Nuclear Medicine: Neuroendocrine Tumors -- Diagnostic Applications of Nuclear Medicine: Kidney and Bladder Cancer -- Diagnostic Applications of Nuclear Medicine: Prostatic Cancer -- Diagnostic Applications of Nuclear Medicine: Testicular Cancer -- Diagnostic Applications of Nuclear Medicine: Penile Cancer -- Diagnostic Applications of Nuclear Medicine: Vulvar Cancer -- Diagnostic Applications of Nuclear Medicine: Uterine Cancers -- Diagnostic Applications of Nuclear Medicine: Ovarian Cancer -- Diagnostic Applications of Nuclear Medicine: Sarcomas -- Diagnostic Applications of Nuclear Medicine: Malignant Melanoma -- Diagnostic Applications of Nuclear Medicine: Pediatric Cancers -- Part III Radionuclide Therapy -- Radionuclide Therapy of Lymphomas -- Radionuclide Therapy of Leukemias and Multiple Myeloma -- Radionuclide Therapy of Thyroid Tumors -- Neuroendocrine Tumors: Therapy with Radiolabeled Peptides -- Neuroendocrine Tumors: Therapy with ^{131}I -MIBG -- Targeted Radionuclide Therapy for Bone Metastasis -- Radionuclide Therapy of Tumors of the Liver and Biliary Tract -- Part IV Radioguided Surgery -- Radioguided Surgery for Breast Cancer -- Radioguided Surgery for Malignant Melanoma -- Radioguided Surgery for Head and Neck Cancer -- 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 in Nuclear Oncology -- Teaching Cases in Nuclear Oncology: Lymphomas -- Teaching Cases in Nuclear Oncology: Multiple Myeloma -- Teaching Cases in Nuclear Oncology: Brain Tumors -- Teaching Cases in Nuclear Oncology: Head and Neck Cancer -- Teaching Cases in Nuclear Oncology: Thyroid Tumors -- Teaching Cases in Nuclear Oncology: Parathyroid Tumors -- Teaching Cases in Nuclear Oncology: Breast Cancer -- Teaching Cases in Nuclear Oncology: Lung and Mediastinal Tumors -- Teaching Cases in Nuclear Oncology: Esophageal Cancers -- Teaching Cases in Nuclear Oncology: Gastric Cancers -- Teaching Cases in Nuclear Oncology: Small Bowel Cancers -- Teaching Cases in Nuclear Oncology: Tumors of the Liver and Biliary Tract -- Teaching Cases in Nuclear Oncology: Pancreatic Cancer -- Teaching Cases in Nuclear Oncology: Colorectal Cancer -- Teaching Cases in Nuclear Oncology: Neuroendocrine Tumors -- Teaching Cases in Nuclear Oncology: Kidney and Bladder Cancer -- Teaching Cases in Nuclear Oncology: Prostatic Cancer -- Teaching Cases in Nuclear Oncology: Testicular Cancer -- Teaching Cases in Nuclear Oncology: Penile Cancer -- Teaching Cases in Nuclear Oncology: Vulvar Cancer -- Teaching Cases in Nuclear Oncology: Uterine Cancers -- Teaching Cases in Nuclear Oncology: Ovarian Cancer -- Teaching Cases in Nuclear Oncology: Sarcomas -- Teaching Cases in Nuclear Oncology: Malignant Melanoma -- Teaching Cases in

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 updated cases that define and expand the didactic material in the clinical application chapters. Thoroughly updated and revised, the third edition incorporates new clinical evidence validating the use of radionuclides for diagnosis and therapy in oncology, new radiotracers, and the growing integration of imaging modalities into different types of hybrid imaging. With contributions from a group of internationally distinguished practitioners, *Nuclear Oncology: From Pathophysiology to Clinical Applications, Third 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.