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Soggetti	Cancer - Surgery Computer-assisted surgery Image-guided radiation therapy
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Principles of oncology -- Biology of cancer -- Evaluation of the cancer patient -- Principles of chemotherapy -- Pharmacologic principles of regional therapy in the treatment of liver metastases or primary liver tumors -- Principles of image-guided therapies -- Imaged-guided interventions: fundamentals of radiofrequency tumor ablation -- Principles of embolization -- Imaging in interventional oncology: role of image guidance -- Assessment of tumor response on magnetic resonance imaging after locoregional therapy -- Organ-specific cancers -- Primary liver cancer -- Hepatocellular carcinoma: epidemiology, pathology, diagnosis and screening -- Staging systems for hepatocellular carcinoma -- Hepatocellular carcinoma: medical management -- Surgical management (resection) -- Liver transplantation for hepatocellular carcinoma -- Image-guided ablation

of hepatocellular carcinoma -- Embolization of liver tumors: anatomy -- Transcatheter arterial chemoembolization: techniques and future potential -- New concepts in targeting and imaging liver cancer -- Intrahepatic cholangiocarcinoma -- Liver metastases -- Medical management of colorectal liver metastasis -- Surgical resection of hepatic metastases -- Clinical management of patients with colorectal liver metastases using hepatic arterial infusion -- Colorectal metastases: ablation -- Colorectal metastases: chemoembolization -- Radioembolization with Yttrium microspheres for colorectal liver metastases -- Carcinoid and related neuroendocrine tumors -- Interventional radiology for the treatment of liver metastases from neuroendocrine tumors -- Immunoembolization for melanoma -- Preoperative portal vein embolization -- Extrahepatic biliary cancer -- Cancer of the extrahepatic bile ducts and the gallbladder: surgical management -- Extrahepatic biliary cancer: high dose rate brachytherapy and photodynamic therapy -- Extrahepatic biliary cancer/biliary drainage -- Renal cell carcinoma -- Surgical and medical treatment -- Percutaneous renal ablation -- Embolotherapy in the management of renal cell carcinoma -- Chest -- Epidemiology, diagnosis, staging and medical-surgical management of lung cancers -- Image-guided ablation in the thorax -- Interventional treatment methods for unresectable lung tumors -- Head and neck tumors -- Interventional neuroradiology in head and neck oncology -- Musculoskeletal -- Percutaneous ablation of painful metastases involving bone -- Intra-arterial therapy for sarcomas -- Prostate -- Prostate cryoablation: a role for the radiologist in treating prostate cancer? -- Specialized interventional techniques in cancer care -- Vascular access: venous and arterial ports -- Gastrointestinal stenting -- Diagnosis and management of superior vena cava syndrome -- Palliative care and symptom management -- Complications of therapeutic endovascular procedures in malignant liver diseases.

#### Sommario/riassunto

Interventional oncology has joined surgical, radiation, and medical oncology as the fourth pillar of cancer care. Advances in imaging and image guidance for the detection, characterization, targeting, and therapy of cancer now allow for minimally invasive image-guided treatment of many solid tumors without the morbidity of open surgery or the toxicity of chemotherapy and radiation. The editors have brought together the accrued experience of pioneers and leaders in image-guided cancer therapy from around the globe to create the first comprehensive text for this emerging field. Covering the biology, techniques, clinical applications, and outcomes of interventional oncologic procedures for the treatment and palliation of solid tumors throughout the body, this practical reference will be indispensable for physicians across specialties who seek to provide collaborative, leading-edge care to cancer patients.