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Titolo	Atlas of Lymphoscintigraphy and Sentinel Node Mapping : A Pictorial Case-Based Approach / / edited by Giuliano Mariani, Sergi Vidal-Sicart, Renato A. Valdés Olmos
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-45296-4
Edizione	[2nd ed. 2020.]
Descrizione fisica	1 online resource (XII, 378 p. 278 illus., 221 illus. in color.)
Disciplina	616.994 616.9940758
Soggetti	Nuclear medicine Oncology Surgery Blood-vessels - Diseases Pathology Nuclear Medicine Angiology Medicina nuclear Limfomes Nodes limfàtics Gammagrafia Malalties vasculars Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Anatomy and physiology of lymphatic circulation -- Pathophysiology of lymphatic circulation in different disease conditions -- Methodological aspects of lymphoscintigraphy: radiopharmaceuticals and instrumentation -- Methodological aspects of lymphoscintigraphy: bicompartimental versus monocompartmental -- Lymphoscintigraphy for the differential diagnosis of peripheral edema and intracavitory lymph effusion -- The sentinel lymph node concept in oncologic

surgery -- General concepts on radioguided sentinel lymph node biopsy: preoperative imaging, intraoperative gamma-probe guidance, intraoperative imaging, multimodality imaging -- SPECT/CT image generation and criteria of interpretation for sentinel lymph node mapping -- Preoperative and intraoperative lymphatic mapping for radioguided sentinel node biopsy in breast cancer -- Preoperative and intraoperative lymphatic mapping for radioguided sentinel node biopsy in cutaneous melanoma -- Preoperative and intraoperative lymphatic mapping for radioguided sentinel node biopsy in head and neck cancers -- Preoperative and intraoperative lymphatic mapping for radioguided sentinel node biopsy in non-small-cell lung cancer -- Preoperative and intraoperative lymphatic mapping for radioguided sentinel node biopsy in cancers of the gastrointestinal tract -- Preoperative and intraoperative lymphatic mapping for radioguided sentinel node biopsy in cancers of the female reproductive system -- Preoperative and intraoperative lymphatic mapping for radioguided sentinel node biopsy in cancers of the male reproductive system -- Preoperative and intraoperative lymphatic mapping for radioguided sentinel node biopsy in kidney and bladder cancers.

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#### Sommario/riassunto

The main goal of the second edition of this book is to update the content on the rapidly growing field of lymphoscintigraphy, a radionuclide-based imaging procedure that provides information on the functional status of the lymphatic system. Although the technique was originally introduced to identify the cause of peripheral edema (i.e., blockage of the venous or lymphatic circulation), more recent and widespread applications include radioguided biopsy of the sentinel lymph node in patients with solid cancers. This procedure is crucial for the adequate planning of oncologic surgery in a growing number of cancers, most notably breast cancer, cutaneous melanoma, head and neck cancers, penile cancer, and cervical cancer. The book focuses on the latest advances in lymphoscintigraphy techniques, including both novel tracers recently approved for clinical use (especially in the field of sentinel lymph node mapping) and the expanding role of hybrid imaging with SPECT/CT – and in sentinel node detection using hybrid tracers (radiolabeled and fluorescent) for dual-signature guidance. Each chapter addresses the clinical application of lymphoscintigraphy in different anatomic areas or disease conditions. After an introductory section concerning the pathophysiology of the specific site/disease, the clinical relevance and impact of lymphoscintigraphy is demonstrated by a collection of richly illustrated teaching cases describing the lymphoscintigraphic patterns most commonly observed, as well as anatomic variants and technical pitfalls. Emphasis is placed on tomographic multimodality imaging. The book gathers contributions by experts in nuclear oncology, who have revised their chapters by updating the didactic material and adding clinical cases. Regarding sentinel lymph node biopsy in particular, a major distinction of this text is the incorporation of the staging guidelines of the American Joint Committee on Cancer (8th edition) into the didactic material.

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