Lung Cancer Diagnostic Procedures And Therapeutic Management With Special Reference To Radiotherapy

#lung cancer diagnosis #lung cancer treatment #radiotherapy lung cancer #lung cancer management #cancer diagnostic procedures

Explore comprehensive lung cancer diagnostic procedures and therapeutic management strategies. This includes a special focus on the crucial role of radiotherapy in effectively treating and managing lung cancer.

Lung Cancer

At first glance it appears that little has happened in our understanding of bronchogenic carcinoma, since five year survival rates have not changed appreciably over the past ten years. This is partially true, however the depth of our understanding has increased and will continue to do so at a rapid pace over the next five to ten years. Information on the basic tumor biology, identification of important groups at high risk and im proved delivery of cytotoxic agents in the treatment of lung cancer, will all add to improve the outcome. The purpose of this text is to provide useful background information and to serve as a reference for approaching the patient with lung cancer. Therefore it will serve as a review for some and as a beginning for others. An important starting point in any discussion of lung cancer is an epidemiological survey of the topic (Chapter I). For those who do not avoid the hazards and present with symptoms, what is the most logical approach in determining the diagnosis (Chapter II). This chapter is intended to provide a general overview of the subjects covered in detail in the remainder of the text.

Lung Cancer

This book describes the molecular mechanisms of lung cancer development and progression that determine therapeutic interventions in the era of genomics, when the rapid evolution in lung cancer diagnosis and treatment necessitates critical review of new results to integrate advances into practice. The text opens with background and emerging information regarding the molecular biology of lung cancer pathogenesis. Updated results regarding lung cancer prevention and screening are discussed, followed by chapters on diagnostic techniques and pathological evaluation. This leads on to a detailed presentation of treatment modalities, from surgery and radiation therapy to standard chemotherapy and targeted agents. The coverage includes resistance to therapy and the emergence of immunotherapy for lung cancer; in addition, the current evidence in respect of small cell lung cancer is summarized. The book presents insights from experts across disciplines to emphasize the importance of collaborative

care. Advances in our understanding of issues in geriatric oncology and palliative care complete the comprehensive discussion of lung cancer.

New Therapeutic Strategies in Lung Cancers

This book provides an up-to-date review of current management techniques for Non-Small Cell Lung Cancer. It addresses all of the latest issues that have been raised by the discovery of oncogenic drivers and the improvement of diagnosis and therapeutic methods, including new radiotherapy techniques and anticancer strategies like immunotherapy. New strategies for patients with molecular alterations and the management of particular types of cases are also highlighted. Written by recognized experts in their field, the book represents a unique and valuable resource in the field of lung cancer, both for those currently in training and for those already in clinical or research practice.

Bronchial Carcinoma

In a condition of such complexity as bronchial carcinoma and at a time when the scientist's understanding of malignant disease is still incomplete, it is inevitable that views within the medical profession will proliferate. This book is an attempt to assemble these views in the light of 33 years of surgical experience and is intended for those specialists who will be concerned with the diagnosis and treatment of lung cancer in the foreseeable future. The wide clinical experience of the contributing authors has ena bled every aspect of this disease to be considered, with emphasis being placed on diagnostic techniques such as CT scanning and fine needle transpleural biopsy, as well as on the latest method of treatment by lasers. Bronchial carcinoma remains the major cause of cancer death in the United Kingdom, accounting for 60Jo of all deaths. While the incidence has decreased slightly in the male population, there has been an equivalent increase in the female population.

Radiation Oncology

Radiation Oncology: An Evidence-Based Approach (ROEBA) is a reference book designed to enable radiation oncologists, including those in training, to make diagnostic and treatment decisions on the basis of the best available scientific evidence. Ease of use is ensured by a structured, reader-friendly format that offers rapid access to evidence-based recommendations. ROEBA’s orientation is entirely practical, in that the focus is solely on diagnostic/staging and treatment issues. Detailed diagnostic and therapeutic guidelines are provided for multidisciplinary cancer management as well as radiation therapy techniques. The evidence underlying each recommendation is clearly and concisely explained, and the strength of the recommendations and evidence is systemically graded. Furthermore, diagnostic and treatment algorithms are provided for the commonly diagnosed cancers. This ground-breaking text on radiation oncology is an essential tool for physicians in their daily clinical practice.

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Lung Cancer

"According to the American Cancer Society, nearly 220,000 Americans are diagnosed with lung cancer annually. It accounts for nearly 15 percent of all newly diagnosed cancers. If you've been diagnosed, you probably have many questions about the nature of the disease and your treatment options.Walter J. Scott, M.D., has treated thousands of lung cancer patients who have navigated this overwhelming maze of medical tests and procedures. In Lung Cancer: From Diagnosis to Treatment, Dr. Scott helps you understand the process--from getting a diagnosis to going through treatment. He explains topics such as: symptoms of lung cancer, diagnostic tests, types and stages of lung cancer, surgical procedures,

chemotherapy, radiation therapy, clinical trials, coping with "smoker's guilt" and more. A book to help you become an informed patient!"--

Clinical Radiation Oncology

Perfect for radiation oncology physicians and residents needing a multidisciplinary, treatment-focused resource, this updated edition continues to provide the latest knowledge in this consistently growing field. Not only will you broaden your understanding of the basic biology of disease processes, you'll also access updated treatment algorithms, information on techniques, and state-of-the-art modalities. The consistent and concise format provides just the right amount of information, making Clinical Radiation Oncology a welcome resource for use by the entire radiation oncology team. Content is templated and divided into three sections -- Scientific Foundations of Radiation Oncology, Techniques and Modalities, and Disease Sites - for quick access to information. Disease Sites chapters summarize the most important issues on the opening page and include a full-color format, liberal use of tables and figures, a closing section with a discussion of controversies and problems, and a treatment algorithm that reflects the treatment approach of the authors. Chapters have been edited for scientific accuracy, organization, format, and adequacy of outcome data (such as disease control, survival, and treatment tolerance). Allows you to examine the therapeutic management of specific disease sites based on single-modality and combined-modality approaches. Features an emphasis on providing workup and treatment algorithms for each major disease process, as well as the coverage of molecular biology and its relevance to individual diseases. Two new chapters provide an increased emphasis on stereotactic radiosurgery (SRS) and stereotactic body irradiation (SBRT). New Associate Editor, Dr. Andrea Ng, offers her unique perspectives to the Lymphoma and Hematologic Malignancies section. Key Points are summarized at the beginning of each disease-site chapter, mirroring the template headings and highlighting essential information and outcomes. Treatment algorithms and techniques, together with discussions of controversies and problems, reflect the treatment approaches employed by the authors. Disease Site Overviews allow each section editor to give a unique perspective on important issues, while online updates to Disease Site chapters ensure your knowledge is current. Disease Site chapters feature updated information on disease management and outcomes. Four videos accessible on Expert Consult include Intraoperative Irradiation, Prostate Brachytherapy, Penile Brachytherapy, and Ocular Melanoma. Thirty all-new anatomy drawings increase your visual understanding. Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, and references from the book on a variety of devices.

Stereotactic Body Radiation Therapy

Stereotactic body radiation therapy (SBRT) has emerged as an important innovative treatment for various primary and metastatic cancers. This book provides a comprehensive and up-to-date account of the physical/technological, biological, and clinical aspects of SBRT. It will serve as a detailed resource for this rapidly developing treatment modality. The organ sites covered include lung, liver, spine, pancreas, prostate, adrenal, head and neck, and female reproductive tract. Retrospective studies and prospective clinical trials on SBRT for various organ sites from around the world are examined, and toxicities and normal tissue constraints are discussed. This book features unique insights from world-renowned experts in SBRT from North America, Asia, and Europe. It will be necessary reading for radiation oncologists, radiation oncology residents and fellows, medical physicists, medical physics residents, medical oncologists, surgical oncologists, and cancer scientists.

Conference on the Interaction of Radiation Therapy and Chemotherapy

First multi-year cumulation covers six years: 1965-70.

Current Catalog

The advent in recent years of several new imaging modalities for the application in diag nosis and patient management has had an unprecedented impact on patient care. By per mitting the acquisition of information without intervention, these new modalities have made the diagnostic process more humane. They have also made possible the treatment of many disorders of the upper and lower urinary tract by means of interventional tech niques, replacing a number of surgical procedures. The editor of this volume has engaged international experts in radiology to describe the state of the art of radio log y of the upper urinary tract. Local and regional abnormalities are covered, but so too is the involvement of urinary structures in systemic disease. The radiologic approach and interpretation are combined with

the presentation of pertinent clinical observations and important pathophysiologic concepts. The text is concise and the illustrations are appropriate. Up-to-date international bibliographies are provided. Both the text and the illustrations will serve as sources of information for the radiologists, urol ogists, nephrologists, gynecologists, and oncologists. Most importantly, the material is presented in such a way that practicing specialists dealing with urologic disorders, as well as physicians in training will benefit. We feel that it is timely to publish a present day treatise on urinary tract radiology in order to convey the contributions made by various newer imaging modalities to the diagnosis of urinary disorders.

National Library of Medicine Current Catalog

The administration of chemotherapeutic agents by continuous infusion with concomitant radiation therapy heralds a new approach in the treatment of cancer. This comprehensive book on the subject includes, besides a discussion of its scientific basis, the most promising clinical data on the use of continuous infusion chemotherapy and radiation. Thus, it is an important update for clinical investigators involved in frontline research as well as for practicing physicians participating in the direct care of cancer patients. The contributions include the latest results of this new approach in a number of tumor sites. There is a detailed description of the principles of radiosensitization for malignant tumors and radioprotection for normal tissues; these are the principles which have led to concrete clinical applications. There is also a presentation of the most recent data on the beneficial effects resulting from the administration of commonly used drugs, such as 5-fluorouracil, cisplatinum and adriamycin, with concomitant radiation therapy. Much of the data has never before been published. The wealth of information in this volume makes it a valuable reference; at the same time it gives practicing physicians a detailed presentation of various therapeutic regimens which they could administer in their daily clinical practice. In the future, this innovative cancer treatment may lead to the decreased need for radical surgery and the increased ability to preserve organ function.

Smoking and Health Bulletin

At present lung cancer is the most common cancer in the world and responsible for over 1 million deaths worldwide. Advances in bronchoscopy have helped to increase detection rates of central type early lung cancer. These lesions are invisible on the basis of radiological methods. They usually show only subtle changes of the bronchial mucosa and are therefore sometimes difficult to identify by conventional bronchoscopy. The data showing the ability to increase the diagnostic rate for early lung cancer in the central airways by autofluorescence bronchoscopy are convincing. Video-chip-autofluorescence bronchoscopy seems to be one of the technologies with the largest impact on diagnostic bronchoscopy in the last decades.

Radiology of the Upper Urinary Tract

This publication provides guidance for designing and implementing radiotherapy programmes, taking into account clinical, medical physics, radiation protection and safety aspects. It reflects current requirements for radiotherapy infrastructure in settings with limited resources. It will be of use to professionals involved in the development, implementation and management of radiotherapy programmes

Concomitant Continuous Infusion Chemotherapy and Radiation

Advanced Drug Delivery Systems in the Management of Cancer discusses recent developments in nanomedicine and nano-based drug delivery systems used in the treatment of cancers affecting the blood, lungs, brain, and kidneys. The research presented in this book includes international collaborations in the area of novel drug delivery for the treatment of cancer. Cancer therapy remains one of the greatest challenges in modern medicine, as successful treatment requires the elimination of malignant cells that are closely related to normal cells within the body. Advanced drug delivery systems are carriers for a wide range of pharmacotherapies used in many applications, including cancer treatment. The use of such carrier systems in cancer treatment is growing rapidly as they help overcome the limitations associated with conventional drug delivery systems. Some of the conventional limitations that these advanced drug delivery systems help overcome include nonspecific targeting, systemic toxicity, poor oral bioavailability, reduced efficacy, and low therapeutic index. This book begins with a brief introduction to cancer biology. This is followed by an overview of the current landscape in pharmacotherapy for the cancer management. The need for advanced drug delivery systems in oncology and cancer treatment is established, and the systems that can be used for several specific cancers are discussed. Several chapters of the book are devoted to discussing the latest

technologies and advances in nanotechnology. These include practical solutions on how to design a more effective nanocarrier for the drugs used in cancer therapeutics. Each chapter is written with the goal of informing readers about the latest advancements in drug delivery system technologies while reinforcing understanding through various detailed tables, figures, and illustrations. Advanced Drug Delivery Systems in the Management of Cancer is a valuable resource for anyone working in the fields of cancer biology and drug delivery, whether in academia, research, or industry. The book will be especially useful for researchers in drug formulation and drug delivery as well as for biological and translational researchers working in the field of cancer. Presents an overview of the recent perspectives and challenges within the management and diagnosis of cancer Provides insights into how advanced drug delivery systems can effectively be used in the management of a wide range of cancers Includes up-to-date information on diagnostic methods and treatment strategies using controlled drug delivery systems

Autofluorescence Bronchoscopy

Decision Making in Radiation Oncology is a reference book designed to enable radiation oncologists, including those in training, to make diagnostic and treatment decisions effectively and efficiently. The design is based on the belief that “a picture is worth a thousand words.” Knowledge is conveyed through an illustrative approach using algorithms, schemas, graphics, and tables. Detailed guidelines are provided for multidisciplinary cancer management and radiation therapy techniques. In addition to the attention-riveting algorithms for diagnosis and treatment, strategies for the management of disease at individual stages are detailed for all the commonly diagnosed malignancies. Clinical trials that have yielded “gold standard” treatment and their results are documented in the schemas. Moreover, radiation techniques, including treatment planning and delivery, are presented in an illustrative way. This groundbreaking publication is an essential tool for physicians in their daily clinical practice.

NCI Monographs

The American Joint Committee on Cancer's Cancer Staging Manual is used by physicians throughout the world to diagnose cancer and determine the extent to which cancer has progressed. All of the TNM staging information included in this Sixth Edition is uniform between the AJCC (American Joint Committee on Cancer) and the UICC (International Union Against Cancer). In addition to the information found in the Handbook, the Manual provides standardized data forms for each anatomic site, which can be utilized as permanent patient records, enabling clinicians and cancer research scientists to maintain consistency in evaluating the efficacy of diagnosis and treatment. The CD-ROM packaged with each Manual contains printable copies of each of the book’s 45 Staging Forms.

Setting Up a Radiotherapy Programme

Principles of Radiation Therapy presents the applications, limitations, techniques, and results of treatment and possible complications of radiotherapy. This book discusses the general principles of the treatment. Organized into 15 chapters, this book begins with an overview of the aspects of the study of malignant disease and the experience needed by the radiotherapist to function fully as a clinical oncologist. This text then describes briefly the experiments and discoveries of Marie Curie and Wilhelm Konrad Roentgen. Other chapters consider the fundamental physical principles underlying the use of ionizing radiations. This book discusses as well the aspects of treatment using external beam therapy, the machines used, the method of planning treatment, as well as special features of the treatment. The final chapter deals with the effects of radiation on tumor, the normal cell, the tissue or organ, and on the whole body. This book is a valuable resource for radiotherapists, epidemiologists, pathologists, clinical oncologists, nurses, and medical students.

Advanced Drug Delivery Systems in the Management of Cancer

A panel of recognized authorities comprehensively review the medical, surgical, and pathophysiologic issues relevant to lung volume reduction surgery for emphysema. Topics range from the open technique and video-assisted thoracoscopic approaches to LVRS, to anesthetic management, to perioperative and nursing care of the patient. The experts also detail the selection of candidates for LVRS, the clinical results and clinical trials in LVRS, and the effects of LVRS on survival rates.

Decision Making in Radiation Oncology

In this Handbook, a team of leading experts provide a comprehensive and up-to-date overview of the ever-changing field of radiation oncology. The publication is divided into three volumes, the first of which covers basics such as radiotherapy techniques, treatment documentation, clinical radiobiology, and patient management. In the second volume, all aspects of clinical radiation therapy are discussed in depth for the full range of tumor types. In order to ensure that the reader has a full understanding of cancer management in each scenario, information is also provided on diagnosis and classification, general management principles, the role of surgical and systemic therapy, and prognosis. The third volume focuses on medical physics, covering the mathematical and computer science background, biophysics, radiation physics, instrumentation, tracer kinetic modeling, pharmacokinetics and pharmacodynamics, radiation sources and detectors, biomedical engineering, imaging techniques, radiation treatment planning, and quality assurance. This book will be invaluable for all radiation oncologists. It is published as part of the SpringerReference program, which delivers access to living editions constantly updated through a dynamic peer-review publishing process.

AJCC Cancer Staging Manual

This concise, excellently illustrated pocket book provides an up-to-date summary of the science and practice of PET/CT imaging in lung cancer. The coverage encompasses the entire spectrum of lung cancer – pathology, radiological and PET/CT imaging, and management. Readers will also find information on the physics of PET and its use in respiratory gating and radiotherapy planning. The highlights of the book are the exquisite depiction of normal variants, pitfalls, and artifacts and a pictorial atlas of the various types of lung cancer and their manifestations. The contributing authors are well-known and experienced oncologists, pathologists, radiologists, and nuclear physicians. This book has been compiled under the auspices of the British Nuclear Medicine Society. It will be of high value for nuclear physicians, radiologists, referring clinicians and oncologists, and paramedical staff working in these fields

Tumors of the Lower Respiratory Tract

Adjuvant treatment is administered prior to or as follow up to surgical procedures for breast cancer. Proven success in using medical therapies allowing for breast conserving procedures or reducing risk of occurrence. Although there has been much progress towards a cure, including the introduction of new targeted therapies, metastasizing cancer remains highly incurable.

Early and Locally Advanced Breast Cancer: Diagnosis and Treatment

This book aims to educate nurses and advanced practice providers (APP’s) about known mutations, availability of targeted therapy and the management of patients with non-small cell lung cancer (NSCLC). It will educate nurses and practitioners about the scope of therapy to assure safe and effective lung cancer treatment. In this era of personalized medicine, nurses and APP’s are responsible for guiding patients from diagnosis through treatment. This starts with the identification of patients that can benefit from these therapies, the key role of biopsy acquisition (ie. what to test, when and how often) and treatment selection based on the mutation identified. Readers will learn about the mechanisms of action, administration, potential adverse side effects and unique management strategies for these targeted agents. Lung cancer continues to be the leading cause of cancer death in the United States and worldwide. Recent advances in the identification of specific oncogenic mutations that drive cancer development, growth and metastasis have led to major paradigm shifts in lung cancer treatment. Sophisticated methods are required to identify specific mutations at the time of diagnosis. This book explains how molecularly targeted therapies have been developed that target these drivers. To date, several tyrosine kinase inhibitors have been approved to target the epidermal growth factor receptor (EGFR), EML4-ALK ,ROS1 and BRAF. Most recently, immune checkpoint inhibitors have been approved with some indication that efficacy may be enhanced for patients who overexpress PD-L1. While some driver mutations have been identified, there is ongoing investigation into additional mutations. In the case of driver mutations, lung cancers will develop resistance to therapy. This book provides nurses and APP’s with the mechanisms of resistance that have been identified such as T790 mutation and many others in the EGFR mutation, and shows how the next level of drug development is focused on identifying mechanisms of resistance and development of new agents that overcome these mutations. With this book in hand, nurses and practitioners will be able to navigate patients through this ever expanding field of lung cancer treatment.

Principles of Radiation Therapy

This book contextualizes translational research and provides an up to date progress report on therapies that are currently being targeted in lung cancer. It is now well established that there is tremendous heterogeneity among cancer cells both at the inter- and intra-tumoral level. Further, a growing body of work highlights the importance of targeted therapies and personalized medicine in treating cancer patients. In contrast to conventional therapies that are typically administered to the average patient regardless of the patient's genotype, targeted therapies are tailored to patients with specific traits. Nonetheless, such genetic changes can be disease-specific and/or target specific; thus, the book addresses these issues manifested in the somatically acquired genetic changes of the targeted gene. Each chapter is written by a leading medical oncologist who specializes in thoracic oncology and is devoted to a particular target in a specific indication. Contributors provide an in-depth review of the literature covering the mechanisms underlying signaling, potential cross talk between the target and downstream signaling, and potential emergence of drug resistance.

British Journal of Radiology

Cancer of any kind is scary, but lung cancer is unique in that most people think that only people who smoke can or do get it. The truth is that anyone can get lung cancer, and it can be deadly. In 2008 (the most recent year numbers are available), 208,493 people in the United States were diagnosed with lung cancer, while 158,592 people in the United States died from lung cancer. Here, Dr. Naheed Ali dispels the notion that only smokers develop lung cancer, but also goes over their increased risk for getting the disease, while also considering the risk factors that non-smokers face. He provides background and tips for combating lung cancer, from prevention, to treatment, to coping with the disease should a person fall victim. In typical fashion, Ali helps readers to understand what lung cancer is, how it develops, its different forms, and how both patients and caregivers can approach healing and treatment. Offering a clear background on the disease and its development, this work will help lung cancer sufferers and their friends and family better cope with and understand the diagnosis.

Thoracic Medicine

Modern medical imaging and radiation therapy technologies are so complex and computer driven that it is difficult for physicians and technologists to know exactly what is happening at the point-of-care. Medical physicists responsible for filling this gap in knowledge must stay abreast of the latest advances at the intersection of medical imaging and radiation therapy. This book provides medical physicists and radiation oncologists current and relevant information on Adaptive Radiation Therapy (ART), a state-of-the-art approach that uses a feedback process to account for patient-specific anatomic and/or biological changes, thus delivering highly individualized radiation therapy for cancer patients. The book should also benefit medical dosimetrists and radiation therapists. Adaptive Radiation Therapy describes technological and methodological advances in the field of ART, as well as initial clinical experiences using ART for selected anatomic sites. Divided into three sections (radiobiological basis, current technologies, and clinical applications), the book covers: Morphological and biological biomarkers for patient-specific planning Design and optimization of treatment plans Delivery of IMRT and IGRT intervention methodologies of ART Management of intrafraction variations, particularly with respiratory motion Quality assurance needed to ensure the safe delivery of ART ART applications in several common cancer types / anatomic sites The technology and methodology for ART have advanced significantly in the last few years and accumulated clinical data have demonstrated the need for ART in clinical settings, assisted by the wide application of intensity modulated radiation therapy (IMRT) and image-guided radiation therapy (IGRT). This book shows the real potential for supplying every patient with individualized radiation therapy that is maximally accurate and precise.

Lung Volume Reduction Surgery

This high-yield reference book focuses on the clinical, technical, and pathological aspects of endobronchial ultrasound-guided transbronchial needle aspiration (EBUS-TBNA). Its reviews cover all aspects of EBUS-TBNA, including the clinical perspective, technical aspects of the procedure, and cytomorphology of common and uncommon entities, as well as highlights diagnostic challenges. Each chapter features a multitude of full-color high-resolution images and includes key references to the current literature in the field. Additionally, reference tables and informative figures highlight the salient points. The book is unique in that it is written by experienced thoracic surgeons, pulmonary medicine physicians, and cytopathologists who use EBUS-TBNA in a large medical center. This publication

is of interest to individuals learning and practicing cytopathology, in addition to clinicians practicing pulmonary/thoracic medicine or surgery. In short, it provides important pearls of wisdom to create a comprehensive reference for all physicians involved with EBUS-TBNA.

Radiation Oncology

Defining the Lung Cancer Problem 1 Lung cancer is the leading cause of cancer death in the world. It kills almost as many Americans as cancers of the breast, prostate, colon, rectum, pancreas, and 2 kidney combined, and accounts for 28.6% of all US cancer deaths. With an increase in the 5-year relative survival rate from 13% to only 16% in the more than 2 30 years from 1974 to the present, it will take us another 840 years to eradicate lung cancer deaths if we do not improve the current rate of progress. As discussed in this text, lung cancer prevention has received substantial att- tion. The decrease in smoking in recent decades has helped, but smoking is not the only problem. Lung cancer in people who have never smoked is currently the 5th 3 leading cause of cancer death in the United States. Several factors contribute to the lethality of lung cancer, including the rapidity of tumor growth, advanced stage at diagnosis (due to nonspecificity of early sy- toms and the uncertain efficacy of screening), early development of metastases, and resistance to therapy. Several chapters in this book discuss new molecular targets that may be potentially exploitable in the future, as well as discussing our track record to date in exploiting them.

PET/CT in Lung Cancer

Access comprehensive, multidisciplinary guidance on the diagnosis and treatment of lung cancer! This new resource addresses the full range of clinical issues in diagnosis, staging, and treatment, as well as the latest scientific data and evidence-based guidelines. A user-friendly organization provides quick reference to data summaries, as well as more comprehensive and detailed information for readers who wish to explore topics in depth.

Non-small Cell Lung Cancer Treatment

GLOBAL EPIDEMIOLOGY OF CANCER Cancer is the second highest cause of death in the United States, and a leading cause of death globally. Our goals are to discuss the global epidemiology of various cancers, with detailed information on their prevalence, incidence, and clinical considerations. Epidemiology is the key to understanding the mortality and morbidity of cancer, and how we can prevent, diagnose, and treat the disease. Prevention of cancer is essential for saving lives. Prevalence and incidence of cancer are key factors that each government and population must be aware of. Ad- vances in the study of cancer occur on a regular basis, and this book provides the latest insights about relationships between the disease and stem cells, tumorigenesis, molecular interactions, pathways, channels, and immunity. Global Epidemiology of Cancer: Diagnosis and Treatment meets the needs of readers by providing current information about epidemiology (including molecular epidemiology), diagnosis, and treatment. Providing logical, step-by-step information on various cancers, this book consolidates all of the most up-to-date information and data from verified studies on all different types of cancers in the United States and throughout the world. Chapters are presented so that each includes an overview, clinical manifestations, epidemiology, pathophysiology, etiology and risk factors, diagnosis, treatment, prevention, and prognosis. Global Epidemiology of Cancer: Diagnosis and Treatment will be invaluable to graduate and postgraduate students, including medical students; nurses; physician assistants; residents in oncology; public health students and allied health students.

Adjuvant Therapy for Breast Cancer

Targeted Therapies in Lung Cancer: Management Strategies for Nurses and Practitioners