Anticancer Treatments And Cardiotoxicity Mechanism

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Chemotherapy and Biotherapy Guidelines and Recommendations for Practice Martha Polovich 2014 Order your copy of the fourth edition of the best-selling resource used by more than 101,000 healthcare professionals since 2009 and keep up-to-date on the latest chemotherapy, biotherapy, and targeted agents. This new edition of the Chemotherapy and Biotherapy Guidelines and Recommendations for Practice has been revised and updated to reflect the current procedures and practices in your specialty. You'll find that this latest edition incorporates a number of significant changes. To help you find the content and information that you need quickly and easily, the text has been reorganized and is now divided into 11 chapters ranging from an overview of cancer and cancer treatment and principles of antineoplastic therapy to post-treatment care and competencies in chemotherapy administration. Patient education information has also been expanded in the new edition to emphasize importance of education in patient care. And, finally, look for new information on chemotherapy sequencing and updates on the nursing management of treatment side effects.As with previous editions, the guidelines strives to bring you the latest details on approved drugs, standards of practice, and available evidence. Make sure to update your library with this latest edition of one of the most trusted and widely used resources for practicing oncology nurses.

Anti-Cancer Drug-Induced Cardiotoxicity Susan Currie 2022-10-11

New Prognostic and Predictive Markers in Cancer Progression Susan Costantini Alfredo Budillon 2021-02-12 Biomarkers are of critical medical importance for

oncologists, allowing them to predict and detect disease and to determine the best course of action for cancer patient care. Prognostic markers are used to evaluate a patient’s outcome and cancer recurrence probability after initial interventions such as surgery or drug treatments and, hence, to select follow-up and further treatment strategies. On the other hand, predictive markers are increasingly being used to evaluate the probability of benefit from clinical intervention(s), driving personalized medicine. Evolving technologies and the increasing availability of “multiomics” data are leading to the selection of numerous potential biomarkers, based on DNA, RNA, miRNA, protein, and metabolic alterations within cancer cells or tumor microenvironment, that may be combined with clinical and pathological data to greatly improve the prediction of both cancer progression and therapeutic treatment responses. However, in recent years, few biomarkers have progressed from discovery to become validated tools to be used in clinical practice. This Special Issue comprises eight review articles and five original studies on novel potential prognostic and predictive markers for different cancer types.

Cardiovascular Complications in Cancer Therapy Antonio Russo 2019-02-01 This proposed text is designed to provide a useful and comprehensive resource and state-of-the-art overview to readers about vascular damage potentially induced by antineoplastic drugs. Thanks to more and more effective antineoplastic treatments the survival of cancer patients is enormously increasing, but at the same time it is increasing the burden of related cardiovascular complications that affect morbidity and mortality. On this basis a new branch of cardiology has been developed, that is Cardio-Oncology. The aim is to prevent cardiovascular complications related to cancer therapy and to facilitate and avoid interruption of antineoplastic drugs due to the occurrence of cardiovascular damage. An increasing attention has been given to cardiac damage, while, until today, vascular complications have been poorly evaluated. The aim of this book is to focus on vascular complications related to cancer treatment, to guide the clinician at facing, during his every day practice, cardiovascular toxicity in cancer and hematologic patients. The proposed sections of the book have been structured to review the molecular mechanisms underlying vascular damage induced by new and old treatments, to describe the various manifestations of vascular disease that may range from artery to venous disease (including coronary artery disease, peripheral arterial disease, venous thromboembolism and pulmonary hypertension), and to provide advice to monitor patients undergoing onco-hematologic treatments in order to prevent and eventually manage vascular damage.This book will address resident and fellow physicians, medical oncologists, cardiologists, general practitioners and all those who take care of these patients.All invited authors will be recognized experts in their field, and leading international researchers on these topics. The editor has worked with these expert colleagues on a variety of other projects. The authors will provide their manuscript according to current literature and clinical research studies. The book does not seek to duplicate or replace other current resources. Rather, it will create a comprehensive yet concise resource on this emerging topic that is not adequately covered by any current literature.

Comparative Oncology Alecsandru Ioan Baba 2007

DNA Repair in Cancer Therapy Mark R. Kelley 2016-06-07 DNA Repair and Cancer Therapy: Molecular Targets and Clinical Applications, Second Edition provides a comprehensive and timely reference that focuses on the translational and clinical use of DNA repair as a target area for the development of diagnostic biomarkers and the enhancement of cancer treatment. Experts on DNA repair proteins from all areas of cancer biology research take readers from bench research to new therapeutic approaches. This book provides a detailed discussion of combination therapies, in other words, how the inhibition of repair pathways can be coupled with chemotherapy, radiation, or DNA damaging drugs. Newer areas in this edition include the role of DNA repair in chemotherapy induced peripheral neuropathy, radiation DNA damage, Fanconi anemia cross-link repair, translesion DNA polymerases, BRCA1-BRCA2 pathway for HR and synthetic lethality, and mechanisms of resistance to clinical PARP inhibitors. Provides a comprehensive overview of the basic and translational research in DNA repair as a cancer therapeutic target Includes timely updates from the earlier edition, including Fanconi Anemia cross-link repair, translesion DNA polymerases, chemotherapy induced peripheral neuropathy, and many other new areas within DNA repair and cancer therapy Saves academic, medical, and pharma researchers time by allowing them to quickly access the very latest details on DNA repair and cancer therapy Assists researchers and research clinicians in understanding the importance of the breakthroughs that are contributing to advances in disease-specific research

Cardiotoxicity of Non-Cardiovascular Drugs Giorgio Minotti 2010-03-25 Some drugs which are not aimed at treating heart disease have nevertheless been found to have profound effects on heart muscle. Cardiotoxicity is one of the major forms of toxicity seen in drugs and it accounts for most drug recalls and delays experienced in regulatory approvals.In recent years a number of non-cardiac blockbuster drugs such as terfenadine have been withdrawn from major markets because of cardiotoxicity concerns, while other drugs have either been withdrawn prior to marketing or required labelling changes that significantly restricted their use. In Cardiotoxicity of Non-Cardiovascular Drugs international experts describe the molecular mechanisms and clinical read-outs of cardiac events induced by a broad variety of noncardiovascular drugs. Particular emphasis is paid to the preclinical screening of drug cardiotoxicity. Topics include: metabolic targets of cardiotoxicity regulatory aspects translating molecular mechanisms into clinical trials structure-activity relationships in arrhythmias by antihistamines and psychoactive drugs cardiovascular toxicity of antitumor drugs cardiovascular toxicities of non-steroidal anti-inflammatory drugs cardiovascular toxicities of antiretroviral therapies Cardiotoxicity of Non-Cardiovascular Drugs is an essential guide to this important area of drug development. It will find a place on the bookshelves of researchers, regulators and students in medicinal chemistry, drug development, pharmacology, pharmacy and cardiovascular disease.

Anticancer Drug Development Bruce C. Baguley 2001-11-17 Here in a single source

is a complete spectrum of ideas on the development of new anticancer drugs. Containing concise reviews of multidisciplinary fields of research, this book offers a wealth of ideas on current and future molecular targets for drug design, including signal transduction, the cell division cycle, and programmed cell death. Detailed descriptions of sources for new drugs and methods for testing and clinical trial design are also provided. One work that can be consulted for all aspects of anticancer drug development Concise reviews of research fields, combined with practical scientific detail, written by internationally respected experts A wealth of ideas on current and future molecular targets for drug design, including signal transduction, the cell division cycle, and programmed cell death Detailed descriptions of the sources of new anticancer drugs, including combinatorial chemistry, phage display, and natural products Discussion of how new drugs can be tested in preclinical systems, including the latest technology of robotic assay systems, cell culture, and experimental animal techniques Hundreds of references that allow the reader to access relevant scientific and medical literature Clear illustrations, some in color, that provide both understanding of the field and material for teaching

Advances in Precision Medicine Oncology Hilal Arnouk 2021 Recent advances in precision medicine and immuno-oncology have led to highly specific and efficacious cancer therapies such as monoclonal antibodies and immune checkpoint inhibitors (ICIs). This book provides an up-to-date overview of advances in the field of immuno-oncology. Chapters cover such topics as ICIs and how they mount a robust immune response against cancer cells as well as the response of ICIs to treatment predictive biomarkers and their potential immune-related adverse events (irAEs). Additionally, the book includes a comprehensive review of the powerful FDA-approved therapeutic agent doxorubicin, highlighting the molecular mechanisms behind doxorubicin's drug resistance and critical side effects.

Annals of Oncology European Society for Medical Oncology 2013-12-14

Cardiotoxicity Wenyong Tan 2018-11-14 Cardiotoxicity may be caused by radiotherapy and/or anticancer agents for many malignancies, adverse effects of some drugs in the context of medical intervention or heavy metal intake, especially during the anticancer therapy. This book intends to bring forward the recent development in toxicities from cancer treatment. It updates the possible mechanisms of cardiotoxicities of some anticancer agents and the suggested prevention and treatment strategies. This book contains many valuable contributions from the researchers in oncology and cardiology as well as the clinicians who are experts in this field.

Toxicology Studies Ana Cristina Andreazza 2015-07-08 The increased exposure to toxins, toxicants and novel drugs has promoted toxicology to become one of the most important areas of research with emerging innovative toxicity testing protocols, techniques, and regulation being placed. Since the bioactivation of many toxins and toxicants and its consequences on human health are not clearly

known, this book offers a quick overview of cellular toxicology through the cell, drug and environmental toxicity. This book does not strive to be comprehensive but instead offers a quick overview of principle aspects of toxins and toxicants in order to familiarize the key principles of toxicology. The book is divided into three main sections,; the first one discusses the role of mitochondrial dysfunction, oxidative stress and mitochondrial drug development. The second and third sections bring light to forensic toxicology and drug poisoning followed by environmental toxicity.

Mitochondrial Diseases Eylem Taskin 2018-08-29 Mitochondria are crucial organelles for any cell type. Mitochondria take responsibility for not only energy production but also regulation of cell death, also called apoptosis; calcium storage; and heat production. Therefore, mitochondrial disease is implicated in the mode of action of many harmful factors for cells such as drugs and environmental contaminants, dysfunction of the oxygen transport system, malnutrition, intense exercise, and genetic variations. This book presents up-to-date knowledge about mitochondrial disease and its complex relation to some diseases such as cardiac failure, cancer, and Alzheimer's and Parkinson's diseases. This book will, therefore, be essential for readers who are interested in life sciences, especially in medicine.

Cancer Treatment and the Heart Franco M. Muggia 1992 A foundational investigation of disorders of the heart resulting from cancer treatment, with conclusions about common mechanisms. Seventeen contributed chapters are arranged in five parts: cytotoxic myocardial disease--preclinical study, cytotoxic myocardial disease--clinical study, myocardial disease--radiation and biologics, pericardial disease, and other cardiovascular disease. Annotation copyright by Book News, Inc., Portland, OR

Pediatric Cancer Survivors Karen Wonders 2017-06-07 Pediatric cancer develops in 1 to 500 children. Typically, the type of cancers that develop in children is different than those that develop in adults, in that they are often the result of a DNA mutation rather than environmental or lifestyle risk factors. Leukemia, brain and central nervous system tumors, and neuroblastomas are the most common cancer types in child populations. Children tend to respond better to anticancer treatments, including chemotherapy and radiation. However, long-term side effects are common in children, often requiring follow-up care and lifestyle intervention for the rest of their lives. The percentage of 5-year survivors was over 50% for the most common cancers. This suggests that a majority of cancers in this population are highly survivable. As such, research should focus on aspects of survivorship for these individuals. This book will explore issues related to pediatric cancer and their associated treatments.

Advances in Electrocardiograms Richard Millis 2012-01-25 Electrocardiograms are one of the most widely used methods for evaluating the structure-function relationships of the heart in health and disease. This book is the first of two volumes which reviews recent advancements in electrocardiography. This volume lays the groundwork for understanding the technical aspects of these

advancements. The five sections of this volume, Cardiac Anatomy, ECG Technique, ECG Features, Heart Rate Variability and ECG Data Management, provide comprehensive reviews of advancements in the technical and analytical methods for interpreting and evaluating electrocardiograms. This volume is complemented with anatomical diagrams, electrocardiogram recordings, flow diagrams and algorithms which demonstrate the most modern principles of electrocardiography. The chapters which form this volume describe how the technical impediments inherent to instrument-patient interfacing, recording and interpreting variations in electrocardiogram time intervals and morphologies, as well as electrocardiogram data sharing have been effectively overcome. The advent of novel detection, filtering and testing devices are described. Foremost, among these devices are innovative algorithms for automating the evaluation of electrocardiograms.

Anticancer Treatments and Cardiotoxicity Patrizio Lancellotti 2016-11-11 Anticancer Treatments and Cardiotoxicity: Mechanisms, Diagnostic and Therapeutic Interventions presents cutting edge research on the adverse cardiac effects of both radiotherapy and chemotherapy, brought together by leaders in the field. Cancer treatment-related cardiotoxicity is the leading cause of treatment-associated mortality in cancer survivors and is one of the most common post-treatment issues among survivors of adult cancer. Early detection of the patients prone to developing cardiotoxicity, taking in to account the type of treatment, history and other risk factors, is essential in the fight to decrease cardiotoxic mortality. This illustrated reference describes the most effective diagnostic and imaging tools to evaluate and predict the development of cardiac dysfunction for those patients undergoing cancer treatment. In addition, new guidelines on imaging for the screening and monitoring of these patients are also presented. Anticancer Treatments and Cardiotoxicity is an essential reference for those involved in the research and treatment of cardiovascular toxicity. Provides algorithms essential for the use of imaging, and biomarkers for the screening and monitoring of patients Written by world-leading experts in the field of cardiotoxicity Includes high-quality images, case studies, and test questions Describes the most effective diagnostic and imaging tools to evaluate and predict the development of cardiac dysfunction for those patients undergoing cancer treatment

Breast Cancer Phuc Van Pham 2017-04-05 Breast Cancer - From Biology to Medicine thoroughly examines breast cancer from basic definitions, to cellular and molecular biology, to diagnosis and treatment. This book also has some additional focus on preclinical and clinical results in diagnosis and treatment of breast cancer. The book begins with introduction on epidemiology and pathophysiology of breast cancer in Section 1. In Section 2, the subsequent chapters introduce molecular and cellular biology of breast cancer with some particular signaling pathways, the gene expression, as well as the gene methylation and genomic imprinting, especially the existence of breast cancer stem cells. In Section 3, some new diagnostic methods and updated therapies from surgery, chemotherapy, hormone therapy, immunotherapy, radiotherapy, and some complementary therapies are discussed. This book provides a succinct yet

comprehensive overview of breast cancer for advanced students, graduate students, and researchers as well as those working with breast cancer in a clinical setting.

Cardio-Oncology Roberta A. Gottlieb 2016-11-26 Cardio-Oncology: Principles, Prevention and Management is a clinical volume that focuses on the basic science of cardio-oncology, addresses cardiotoxicity as a consequence of cancer therapy, and discusses prevention, diagnosis and management of cardiovascular disease in patients with cancer. This comprehensive volume presents unique perspectives ranging from basic science to clinical medicine in the field of cardio-oncology. It would be a valuable resource for cardiologists, oncologists, internists, and pediatricians caring for patients with cancer who have cardiovascular risk factors, as well as for cardio-oncology researchers. Covers basic science of cardio-oncology to provide readers with the necessary background Addresses cardiotoxicity related to current cancer therapeutic modalities Discusses diagnostic and management approaches of patients with underlying cardiac risk factors as well as otherwise healthy cancer patients

Heart Failure: A Companion to Braunwald's Heart Disease E-Book G. Michael Felker 2019-02-06 Up-to-date, authoritative and comprehensive, Heart Failure, 4th Edition, provides the clinically relevant information you need to effectively manage and treat patients with this complex cardiovascular problem. This fully revised companion to Braunwald’s Heart Disease helps you make the most of new drug therapies such as angiotensin receptor neprilysin inhibitors (ARNIs), recently improved implantable devices, and innovative patient management strategies. Led by internationally recognized heart failure experts Dr. G. Michael Felker and Dr. Douglas Mann, this outstanding reference gives health care providers the knowledge to improve clinical outcomes in heart failure patients. Focuses on a clinical approach to treating heart failure, resulting from a broad variety of cardiovascular problems. Covers the most recent guidelines and protocols, including significant new updates to ACC, AHA, and HFSA guidelines. Covers key topics such as biomarkers and precision medicine in heart failure and new data on angiotensin receptor neprilysin inhibitors (ARNIs). Contains four new chapters: Natriuretic Peptides in Heart Failure; Amyloidosis as a Cause of Heart Failure; HIV and Heart Failure; and Neuromodulation in Heart Failure. Covers the pathophysiological basis for the development and progression of heart failure. Serves as a definitive resource to prepare for the ABIM’s Heart Failure board exam. 2016 British Medical Association Award: First Prize, Cardiology (3rd Edition).

Re-Balancing the Balance: Another Story of Cardio-Oncology Cezar Angi Iliescu 2022-06-06

Immunotherapy Aung Naing 2022-01-01 The field of immuno-oncology continues to rapidly evolve as new insights to fight and treat cancer emerge. The fourth edition of Immunotherapy provides the most current overview of immuno-oncology in different cancer types and toxicities associated with immunotherapy. While immunotherapy has revolutionized the treatment landscape of several solid

malignancies, several challenges still exist. Only a subset of patients derive clinical benefits; some do not respond at all, and others respond initially, only for their disease to progress later. Because these drugs can activate a broad range of immune cells, patients suffer from a unique set of side effects known as immune-related adverse events. As more immunotherapeutic agents are used in the clinic, it is important to provide updates about current and ongoing developments in the field to further research efforts and inform treatment decisions. The fourth edition will have a new focus on strategies to overcome the challenges associated with immunotherapy. Chapters will discuss topics such as biomarkers of response, resistance mechanisms, role of imaging in predicting immune-related adverse events, and management of immune-related adverse events. Written by leading experts conducting cutting-edge research, readers will gain up-to-date knowledge on the current state and future of immunotherapy.

Childhood Acute Lymphoblastic Leukemia Ajay Vora 2017-04-21 This book provides a comprehensive and up-to-date review of all aspects of childhood Acute Lymphoblastic Leukemia, from basic biology to supportive care. It offers new insights into the genetic pre-disposition to the condition and discusses how response to early therapy and its basic biology are utilized to develop new prognostic stratification systems and target therapy. Readers will learn about current treatment and outcomes, such as immunotherapy and targeted therapy approaches. Supportive care and management of the condition in resource poor countries are also discussed in detail. This is an indispensable guide for research and laboratory scientists, pediatric hematologists as well as specialist nurses involved in the care of childhood leukemia.

Side Effects of Medical Cancer Therapy Mario A. Dicato 2018-06-27 This is the second edition of a well-received book that reflects the state of the art in cancer medical therapies and their side-effects, including immunotherapy and chemotherapeutic drugs. All chapters have been fully updated to include all the latest progress in drug discovery such as targeted therapies for each cancer type. From issues such as preservation of fertility to antiemetic therapy the book provides a very comprehensive overview of the field. The book includes a new chapter on immuno-oncology drugs. Organised by organ system, it lists the toxicity, side-effects and measures of prevention pertaining to each type of drug used in cancer therapy. The most dangerous side-effects are priority so as to alert the reader to their importance. Designed for quick reference in the clinical setting this book is primarily aimed at established medical oncologists but will also appeal to junior doctors, trainees, pharmacists and nurses.

Gastrointestinal Malignancies 2010-04-06 Gastrointestinal Malignancies Gastrointestinal (GI) cancers are common diseases worldwide. About 400,000 patients are diagnosed with esophageal cancer worldwide each year and nearly 330,000 die for this disease. Roughly 870,000 patients are newly diagnosed each year with gastric cancer and over 600,000 die from the disease each year. And 940,000 new cases of colorectal cancer are diagnosed annually and 490,000

patients die from this disease. Management options for patients with GI cancer have undergone dramatic changes in the past decade. New cytotoxic agents, novel targeted agents, surgical and ablative options, as well as a new array of supportative medications have shown substantial progress. With the increased number of therapeutic options from which to choose, the clinician is better placed to offer effective therapy. At the same time the clinician is challenged to keep abreast of the rapidly changing treatment landscape and the newly emerging data that is shaping the options for treatment today and in the future. Gastrointestinal Malignancies provides a comprehensive and in-depth review of this group of malignancies. This volume reviews the current literature, provides critical evaluations of the data, and offers evidence-based recommendations. The editors and authors are leaders in their fields. The chapters update the current screening tools for colon cancers, assessment of predictive markers such as k-Ras and BRAF in the management of colon cancer as well as the state-of-the-art for use of both cytotoxic chemotherapy and the incorporation of newer biological therapies. About the Series: Emerging Cancer Therapeutics is an invited review publication providing a through analysis of key clinical research related to cancer therapeutics, including a discussion and assessment of current evidence, current clinical best practice, and likely near future developments. There is an emphasis throughout on multidisciplinary approaches to the specialty, as well as on quality and outcomes analysis. Published three times a year Emerging Cancer Therapeutics provides authoritative, thorough assessments of advances in therapeutics in all major areas of oncology, both solid and hematologic malignancies, with a focus on advances in medical and biological therapies with emerging clinical impact and encompassing new technologies with implications for management such as molecular imaging. Features of the Emerging Cancer Therapeutics include: Editorial board of nationally recognized experts across the spectrum of Cancer Therapeutics In-depth, up-to-date expert reviews and analysis of major new developments in all areas of Cancer Therapeutics Issues edited by an authority in specific subject area Focuses on major topics in Cancer Therapeutics with in-depth articles covering advancs in clinical and translational research developments as well as clinical applications and experience Emphasizes multidisciplinary approaches to research and practice

Cardio-Oncology Gretchen G. Kimmick 2017-04-11 Co-edited and written by an interdisciplinary team of experts in oncology and cardiology, this book is a clinically useful resource on these overlapping topics: • Cardiac complications in patients receiving cancer therapy • The treatment of cancer in patients with cardiovascular disease • The treatment of cardiovascular disease in patients with cancer When relevant to medical practice, epidemiology and basic science are also included in the discussion and each chapter is written by an oncologist and a cardiologist. Additionally, the chapters follow a similar format to make the book truly interdisciplinary, user-friendly, and clinically applicable to specialists and non-specialists who care for patients with both cancer and cardiovascular disease.

Recent Advances in Cardiotoxicity Testing Tamer M. A. Mohamed 2022-01-05

Introduction to Basics of Pharmacology and Toxicology Abialbon Paul 2021-03-13 This book explains the pharmacological relationships between the various systems in the human body. It offers a comprehensive overview of the pharmacology concerning the autonomic, central, and peripheral nervous systems. Presenting up-to-date information on chemical mediators and their significance, it highlights the therapeutic aspects of several diseases affecting the cardiovascular, renal, respiratory, gastrointestinal, endocrinal, and hematopoietic systems. The book also includes drug therapy for microbial and neoplastic diseases. It also comprises sections on immunopharmacology, dermatological, and ocular pharmacology providing valuable insights into these emerging and recent topics. Covering the diverse groups of drugs acting on different systems, the book reviews their actions, clinical uses, adverse effects, interactions, and subcellular mechanisms of action. It is divided into 11 parts, subdivided into several chapters that evaluate the basic pharmacological principles that govern the different types of body systems. This book is intended for academicians, researchers, and clinicians in industry and academic institutions in pharmaceutical, pharmacological sciences, pharmacy, medical sciences, physiology, neurosciences, biochemistry, molecular biology and other allied health sciences.

Cancer and the Heart Michael S. Ewer 2013 The book begins with the basic science behind the medical applications of the knowledge: cardiovascular biology, pathways, and their relationship to cancer treatment and principles of chemotherapy and immunotherapy. The second section consists of an overview and classification of anti-cancer drugs and a look at their cardiotoxicity. The third section looks at cardiac imaging in the cancer patient, including cardiac ultrasound, Doppler imaging, nuclear imaging, magnetic resonance imaging, and computed tomography in the cancer patient. In section four, management of cardiac disease in the cancer patient is discussed, including cardiac rhythm disturbances and heart failure. Cardiac emergencies and interventions are described as is preoperative assessment of the cancer patient for non-cardiovascular surgery. The final section includes a range of topics such as the pericardium, cardiovascular effects of endocrine treatments, primary cardiac tumors and malignancies of the myocardium and pericardium. Cardiac monitoring during clinical trials and pulmonary concerns are also addressed, as are psychosocial, social, economic, and legal issues of the cancer patient with heart disease.

Autophagy and Senescence in Cancer Therapy 2021-04-13 Advances in Cancer Research, Volume 150, the latest release in this ongoing series, covers the relationship(s) between autophagy and senescence, how they are defined, and the influence of these cellular responses on tumor dormancy and disease recurrence. Specific sections in this new release include Autophagy and senescence, converging roles in pathophysiology, Cellular senescence and tumor promotion: role of the unfolded protein response, autophagy and senescence in cancer stem cells, Targeting the stress support network regulated by autophagy and senescence for cancer treatment, Autophagy and PTEN in DNA damage-induced senescence, mTOR as a senescence manipulation target: A forked road, and more.

Addresses the relationship between autophagy and senescence in cancer therapy Covers autophagy and senescence in tumor dormancy Explores autophagy and senescence in disease recurrence

Drug-Induced Mitochondrial Dysfunction James A. Dykens 2008-09-11 This is the definitive, one-stop resource on preclinical drug evaluation for potential mitochondrial toxicity, addressing the issue upfront in the drug development process. It discusses mitochondrial impairment to organs, skeletal muscle, and nervous systems and details methodologies used to assess mitochondria function. It covers both in vitro and in vivo methods for analysis and includes the latest models. This is the authoritative reference on drug-induced mitochondrial dysfunction for safety assessment professionals in the pharmaceutical industry and for pharmacologists and toxicologists in both drug and environmental health sciences.

Pharmacology and Therapeutics Sivakumar Joghi Thatha Gowder 2014-07-02 The book "Pharmacology and Therapeutics" targets every aspect of the mechanisms for the chemical actions of both traditional and novel drugs. This book covers six sections: Molecular Modeling and Bio-molecular Pharmacology, Immunopharmacology, Environmental Pharmacology and Toxicology, Nanotechnology and Chemotherapy, Drugs and Drug Delivery System and Addiction Pharmacology. Each of these sections is interwoven with the theoretical aspects and experimental techniques of physiology, biochemistry, nutrition, cellular and molecular biology, microbiology, immunology, genetics, and pathology. This book will be a significant source to scientists, physicians, health care professionals and students who are interested to explore the effect of chemical agents on human life.

Handbook of Cancer Treatment-Related Symptoms and Toxicities E-Book Vamsidhar Velcheti 2021-01-28 Early recognition and management of adverse effects of cancer treatments are essential for optimal care of patients with cancer, and drastically different approaches are required for different physiologic reactions. Handbook of Cancer Treatment-Related Symptoms and Toxicities is a focused, one-stop resource that enables clinicians to quickly find up-to-date, reliable information needed at the point of care. The high-yield approach prioritizes the most common toxicities associated with cancer treatment, and concise, templated chapters offer fast access to information needed in day-to-day practice. Presents a user-friendly overview of cancer treatment-related symptoms and toxicities management in a practical, easy-to-use format, allowing you to quickly find information in one convenient, concise resource. Covers systemic and radiation therapies, including chemotherapy, immunotherapy, targeted therapies, and radiation therapy, detailing symptoms of each toxicity to confirm your diagnosis. Overviews pharmacologic and non-pharmacologic approaches to symptom management. Offers recommendations for mitigating toxicities in high-risk patients. Discusses key topics such as management of infusion reactions, when the need for biopsy is warranted, and the unique challenges posed by novel immunotherapies.

Successes and Limitations of Targeted Cancer Therapy S. Peters 2014-02-19 The treatment of patients with advanced malignancies has undergone remarkable change in the last few years. While in the past decisions about systemic therapy were largely based on the performance status of a patient, oncologists today also take into account the pathological and molecular characteristics of the patient's tumor. Targeting specific molecular pathways important for tumorigenesis has become the preferred way of treatment for many types of malignancies. With these advances come new challenges including the optimization of therapy, recognizing and dealing with side effects and, importantly, the development of resistance. This book provides an up-to-date overview of the advances and limitations of targeted therapy for several tumor entities including breast cancer, colon cancer, gastrointestinal stromal tumors, lung cancer, melanoma, ovarian cancer and renal cell carcinoma. Written by over a dozen internationally renowned scientists, the book is suitable for advanced students, postdoctoral researchers, scientists and clinicians who wish to update their knowledge of the latest approaches to targeted cancer therapies.

Oncologic Critical Care Joseph L. Nates 2019-10-30 This major reference work is the most comprehensive resource on oncologic critical care. The text reviews all significant aspects of oncologic ICU practices, with a particular focus on challenges encountered in the diagnosis and management of the critically ill cancer patient population. Comprised of over 140 chapters, the text explores such topics as the organization and management of an oncologic ICU, diseases and complications encountered in the oncologic ICU, multidisciplinary care, surgical care, transfusion medicine, special patient populations, critical care procedures, ethics, pain management, and palliative care. Written by worldwide experts in the field, Oncologic Critical Care is a valuable resource for intensivists, advance practice providers, nurses, and other healthcare providers, that will help close significant knowledge and educational gaps within the realm of medical care for critically ill cancer patients.

Holland-Frei Cancer Medicine Robert C. Bast, Jr. 2017-03-10 Holland-Frei Cancer Medicine, Ninth Edition, offers a balanced view of the most current knowledge of cancer science and clinical oncology practice. This all-new edition is the consummate reference source for medical oncologists, radiation oncologists, internists, surgical oncologists, and others who treat cancer patients. A translational perspective throughout, integrating cancer biology with cancer management providing an in depth understanding of the disease An emphasis on multidisciplinary, research-driven patient care to improve outcomes and optimal use of all appropriate therapies Cutting-edge coverage of personalized cancer care, including molecular diagnostics and therapeutics Concise, readable, clinically relevant text with algorithms, guidelines and insight into the use of both conventional and novel drugs Includes free access to the Wiley Digital Edition providing search across the book, the full reference list with web links, illustrations and photographs, and post-publication updates

Immune Checkpoint Inhibitors in Cancer Fumito Ito 2018-09-03 Get a quick,

expert overview of the latest clinical information and guidelines for cancer checkpoint inhibitors and their implications for specific types of cancers. This practical title by Drs. Fumito Ito and Marc Ernstoff synthesizes the most up-to-date research and clinical guidance available on immune checkpoint inhibitors and presents this information in a compact, easy-to-digest resource. It’s an ideal concise reference for trainee and practicing medical oncologists, as well as those in research. Discusses the current understanding of how to best harness the immune system against different types of cancer at various stages. Helps you translate current research and literature into practical information for daily practice. Presents information logically organized by disease site. Covers tumor immunology and biology; toxicities associated with immune checkpoint inhibitors; and future outlooks. Consolidates today’s available information on this timely topic into one convenient resource.

Cardiac Complications of Cancer Therapy Anecita P. Fadol 2013-01-01 Cardiac complications of anticancer therapy represent an emerging clinical issue in both established chemotherapeutics as well as novel molecular therapies. As a result, healthcare providers are under greater pressure to be vigilant in evaluating patients with cancer for acute and chronic or late physical effects of cancer therapy some of which could be life-threatening. Cardiac Complications of Cancer Therapy, edited by Anecita P. Fadol, PhD, RN, FNP-BC, FAANP, provides you with the essentials of clinical management of the most common cardiac complications of cancer therapy. While you can find a multitude of literature on the management of cardiac problems, including both texts and journal articles, no other clinical reference book on the current market is written for nurses and midlevel providers and examines both the complexity of cardiac problems in conjunction with a cancer diagnosis. Describing the assessment and management of common cardiac problems, chapters in this quick-reference guide examine issues such as cardiovascular anatomy, the development of cardiotoxicity and the management of cardiomyopathy in patients with cancer, targeted therapies and cardiomyopathy, acute coronary syndromes in patients with cancer, cardiac inflammatory conditions and cardiac tamponade in patients with cancer, hypertension in patients with cancer, heart failure in patients with cancer, screening and management of cardiovascular risk factors in cancer survivors, and much more.

Cancer Treatment Letícia Rangel 2013-05-09 Cancer Treatment: Conventional and Innovative Approaches is an attempt to integrate into a book volume the various aspects of cancer treatment, compiling comprehensive reviews written by an international team of experts in the field. The volume is presented in six sections: i) Section 1: Cancer treatment: Conventional and innovative pharmacological approaches; ii) Section 2: Combinatorial strategies to fight cancer: Surgery, radiotherapy, backytherapy, chemotherapy, and hyperthermia; iii) Section 3: The immunotherapy of cancer; iv) Section 4: Multidisciplinarity in cancer therapy: nutrition and beyond; v) Section 5: Supportive care for cancer patients; vi) Section 6: Perspectives in cancer biology and modeling. Ultimately, we hope this book can enlighten important issues involved in the management of cancer, summarizing the state-of-the-art knowledge regarding the

disease control and treatment; thus, providing means to improve the overall care of patients that daily battle against this potentially lethal condition.

MD Anderson Practices in Onco-Cardiology Edward T. H. Yeh. 2016-03-08 The Department of Cardiology at The University of Texas MD Anderson Cancer Center was established on September, 1, 2000. In the past 15 years, we have evaluated and treated more than 10,000 cancer patients with cancer ther¬apy-related cardiovascular complications. Three years ago, we initiated the MD Anderson Practice (MAP) project to distillate our practice patterns into al¬gorithms to be shared with the onco-cardiology community. Because cancer is often an exclusion criterion for cardiology studies, purely evidence-based man¬agement of cancer therapy-related cardiovascular complications is not possible. With this vacuum of knowledge, various "guidelines" have proliferated that are either misleading or difficult to practice. In this manual, we present 16 MAPs that have been extensively reviewed by the cardiologists at MD Anderson. These MAPs should be considered our best practices rather than "guidelines." These MAPs will be updated frequently to reflect advances in the field. This manual con¬sists of MAPs, figures, and tables. We hope you will find these materials useful to your practice and provide us with feedback to improve these MAPs.