

# Diagnostic Interventions In Nuclear Medicine

Intervention Criteria in a Nuclear Or Radiation Emergency Handbook on Nuclear Law Guidelines for Planning Interventions Against External Exposure in Industrial Area After a Nuclear Accident  
Guidelines for Planning Interventions Against External Exposure in Industrial Area After a Nuclear Accident Derived Intervention Levels for Application in Controlling Radiation Doses to the Public in the Event of a Nuclear Accident Or Radiological Emergency Nuclear Politics in Asia The Deadly Connection Principles for Establishing Intervention Levels for the Protection of the Public in the Event of a Nuclear Accident Or Radiological Emergency Nuclear Medicine Physics Current Nuclear Power Plant Safety Issues Advancing Nuclear Medicine Through Innovation Guidelines for Planning Interventions Against External Exposure in Industrial Area After a Nuclear Accident Nuclear Medicine Resources Manual U.S. Interests and Intervention in the Nuclear Age Medical Imaging in Clinical Practice Image-Guided Interventions E-Book Japan's Quest for Nuclear Energy and the Price It Has Paid [Oxford Handbook of Clinical and Laboratory Investigation](#) Health Effects of the Fukushima Nuclear Disaster Stepfamily Relationships Lessons Learned from the Fukushima Nuclear Accident for Improving Safety of U.S. Nuclear Plants Nuclear Weapons and National Security Nuclear Safety Nuclear Medicine Technology [Nuclear Emergency Data Management](#) Diseases of the Chest, Breast, Heart and Vessels 2019-2022 Nuclear Engineering Uranium Enrichment and Nuclear Weapon Proliferation Practical SPECT/CT in Nuclear Medicine [Stresa Conference](#) Radiology at a Glance Therapeutic Nuclear Medicine Nuclear Cardiology [The Nuclear Club](#) Delays in Nuclear Reactor Licensing and Construction Quick-reference Protocol Manual for Nuclear Medicine Technologists System Safety Safety of Nuclear Power Plants Autonomous Nuclear Power Plants with Artificial Intelligence China's Strategic Arsenal

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Radiology at a Glance Apr 06 2020 Radiology at a Glance The market-leading at a Glance series is popular among healthcare students, and newly qualified practitioners for its concise and simple approach and excellent illustrations. Each bite-sized chapter is covered in a double-page spread with clear, easy-to-follow diagrams, supported by succinct explanatory text. Covering a wide range of topics, books in the at a Glance series are ideal as introductory texts for teaching, learning and revision, and are useful throughout university and beyond. Everything you need to know about Radiology... at a Glance! Addressing the basic concepts of radiological physics and radiation protection, together with a structured approach to image interpretation, Radiology at a Glance is the perfect guide for medical students, junior doctors and radiologists. Covering the radiology of plain films, fluoroscopy, CT, MRI, intervention, nuclear medicine and mammography, this edition has been fully updated to reflect advances in the field and now contains new spreads on cardiac, breast and bowel imaging, as well as further information on interventional radiology. Radiology at a Glance: Assumes no prior knowledge of radiology Addresses both theory and clinical practice through theoretical and case-based chapters Provides structured help in assessing which radiological procedures are most appropriate for specific clinical problems Includes increased image clarity Supported by 'classic cases' chapters in each section, and presented in a clear and concise format, Radiology at a Glance is easily accessible whether on the ward or as a quick revision guide. For more information on the complete range of Wiley medical student and junior doctor publishing, please visit [www.wileymedicaleducation.com](#) To receive automatic updates on Wiley books and journals, join our email list. Sign up today at [www.wiley.com/email](#) All content reviewed by students for students Wiley Medical Education books are designed exactly for their intended audience. All of our books are developed in collaboration with students. This means that our books are always published with you, the student, in mind. If you would like to be one of our student reviewers, go to [www.reviewmedicalbooks.com](#) to find out more. This title is also available as an e-book. For more details, please see [www.wiley.com/buy/9781118914779](#)

[Stresa Conference](#) May 08 2020

The Deadly Connection Apr 30 2022 Essays examine the United States nuclear policy

Guidelines for Planning Interventions Against External Exposure in Industrial Area After a Nuclear Accident Nov 25 2021

Practical SPECT/CT in Nuclear Medicine Jun 08 2020 Nuclear Medicine is a diagnostic modality which aims to image and in some cases quantify physiological processes in the body to highlight disease or injury. Within nuclear medicine, over the past few decades, major technological changes have occurred and concomitantly changes in the knowledge and skills required have had to evolve. One of the most significant technological changes has been the fusion of imaging technologies, to create hybrid systems such as SPECT/CT, PET/CT and PET/MR. With these changes in mind, Practical SPECT/CT in Nuclear Medicine provides a handy and informative guide to the purchase, clinical implementation and routine use of a SPECT/CT scanner. Practical SPECT/CT in Nuclear Medicine will be a valuable resource for all personnel working in nuclear medicine and it will be of particular value to trainees.

Quick-reference Protocol Manual for Nuclear Medicine Technologists Nov 01 2019 Targeting technologists specifically, this manual is designed to be a quick reference for technologists to aid in performing the most common nuclear medicine procedures ordered by a referring physician. Each protocol lists the essential information for the procedure, including clinical indications and contraindications; patient preparation and education/instructions; radiopharmaceutical identity, dose, and route of administration; specific information about non-radioactive drugs used in the procedure; camera-specific setup and acquisition instructions; patient position; computer-specific processing instructions; display/PACs instructions; labeling instructions; adjunct imaging/interventions, and precautions. The Quick Reference Protocol Manual for Nuclear Medicine Technologists features protocols for 71 nuclear medicine procedures, including: \* Cardiovascular System \* Central Nervous System \* Endocrine System \* Gastrointestinal System \* Genitourinary system \* Hematopoietic, Reticuloendothelial, and Lymphatic Systems \* Infection and Inflammation \* Labeling \* Oncology \* Skeletal System \* Pulmonary system \* Therapy

Guidelines for Planning Interventions Against External Exposure in Industrial Area After a Nuclear Accident Aug 03 2022

Uranium Enrichment and Nuclear Weapon Proliferation Jul 10 2020 Originally published in 1983, this book presents both the technical and political information necessary to evaluate the emerging threat to world security posed by recent advances in uranium enrichment technology. Uranium enrichment has played a relatively quiet but important role in the history of efforts by a number of nations to acquire nuclear weapons and by a number of others to prevent the proliferation of nuclear weapons. For many years the uranium enrichment industry was dominated by a single method, gaseous diffusion, which was technically complex, extremely capital-intensive, and highly inefficient in its use of energy. As long as this remained true, only the richest and most technically advanced nations could afford to pursue the enrichment route to weapon acquisition. But during the 1970s this situation changed dramatically. Several new and far more accessible enrichment techniques were developed, stimulated largely by the anticipation of a rapidly growing demand for enrichment services by the world-wide nuclear power industry. This proliferation of new techniques, coupled with the subsequent contraction of the commercial market for enriched uranium, has created a situation in which uranium enrichment technology might well become the most important contributor to further nuclear weapon proliferation. Some of the issues addressed in this book are: A technical analysis of the most important enrichment techniques in a form that is relevant to analysis of proliferation risks; A detailed projection of the world demand for uranium enrichment services; A summary and critique of present institutional non-proliferation arrangements in the world enrichment industry, and An identification of the states most likely to pursue the enrichment route to acquisition of nuclear weapons.

Medical Imaging in Clinical Practice Aug 23 2021 Medical Imaging in Clinical Practice is a compendium of the various applications of imaging modalities in specific clinical conditions. It captures in an easy to read manner, the experiences of various experts drawn from across the globe. It explores the conventional techniques, advanced modalities and on going research efforts in the ever widening horizon of medical imaging. The various topics would be relevant to residents, radiologists and specialists who order and interpret various medical imaging procedures. It is an essential for the inquisitive mind, seeking to understand the scope of medical imaging in clinical practice.

China's Strategic Arsenal Jun 28 2019 This volume brings together an international group of distinguished scholars to provide a fresh assessment of China's strategic military capabilities, doctrines, and its political perceptions in light of rapidly advancing technologies, an expanding and modernizing nuclear arsenal, and increased great-power competition with the United States.

Lessons Learned from the Fukushima Nuclear Accident for Improving Safety of U.S. Nuclear Plants Feb 14 2021 The March 11, 2011, Great East Japan Earthquake and tsunami sparked a humanitarian disaster in northeastern Japan. They were responsible for more than 15,900 deaths and 2,600 missing persons as well as physical infrastructure damages exceeding \$200 billion. The earthquake and tsunami also initiated a severe nuclear accident at the Fukushima Daiichi Nuclear Power Station. Three of the six reactors at the plant sustained severe core damage and released hydrogen and radioactive materials. Explosion of the released hydrogen damaged three reactor buildings and impeded onsite emergency response efforts. The accident prompted widespread evacuations of local populations, large economic losses, and the eventual shutdown of all nuclear power plants in Japan. "Lessons Learned from the Fukushima Nuclear Accident for Improving Safety and Security of U.S. Nuclear Plants" is a study of the Fukushima Daiichi accident. This report examines the causes of the crisis, the performance of safety systems at the plant, and the responses of its operators following the earthquake and tsunami. The report then considers the lessons that can be learned and their implications for U.S. safety and storage of spent nuclear fuel and high-level waste, commercial nuclear reactor safety and security regulations, and design improvements. "Lessons Learned" makes recommendations to improve plant systems, resources, and operator training to enable effective ad hoc responses to severe accidents. This report's recommendations to incorporate modern risk concepts into safety regulations and improve the nuclear safety culture will help the industry prepare for events that could challenge the design of plant structures and lead to a loss of critical safety functions. In providing a broad-scope, high-level examination of the accident, "Lessons Learned" is meant to complement earlier evaluations by industry and regulators. This in-depth review will be an essential resource for the nuclear power industry, policy makers, and anyone interested in the state of U.S. preparedness and response in the face of crisis situations.

Nuclear Weapons and National Security Jan 16 2021 Psychology of Sports Performance: Applications, Interventions and Methods is about use of psychological applications and methods for winning, and interventions for improving performance because it focuses on understanding how athletes succeed and assisting athletes and coaches in achieving their best performance. It is about learning how good you are and discovering how far you can go, it is about the joys of teamwork and striving for team goal that is greater than any individual goal, it is about enjoying each moment because neither success nor failure is permanent, so if the journey is not worthwhile, the destination is not worth reaching. And it is about the wonders of self-discovery, learning to understand how you respond to pressure, and how you can make yourself better every day by learning from your experience. The book begins with an interesting introduction of psychology of sport and proceeds to first section to clarify the role of health and well-being in performance. Second section of this book pays attention to psychological interventions in enhancing performance, managing stress and anxiety Third section of this book focuses on use of anxiety as a tool of elite performance. This book provides sound information to the field and will serve as a valuable tool to understand psychology of sport performance.

Health Effects of the Fukushima Nuclear Disaster Apr 18 2021 Health Effects of the Fukushima Nuclear Disaster provides a multidisciplinary retrospective on the health consequences on the population the first decade after the Fukushima nuclear disaster. Sections 1 and 2 of the book begins with an introduction and an overview of the developments surrounding the Fukushima accident. Section 3 discusses topics such as the physical health impact of radiation exposure as well as diseases that resulted from long-term evacuation. Section 4 examines the psychological factors and the social impact of the disaster and how their combined influence affected the physical and mental wellness of the population. The book concludes with Section 5 which covers the mitigation strategy for treatment and care of psychological health issues resulting from the disaster. The book contains expert contributions from those who have first-hand experience in the recovery efforts and are still actively researching the impact of the disaster. Health Effects of the Fukushima Nuclear Disaster provides readers with a coherent, multi-dimensional narrative about the physical, psychosocial, and psychological aspects of the decade-long aftermath of the Fukushima nuclear disaster. Provides information based on evidence obtained through scientific methods such as long-term epidemiological surveys and case studies Examines the indirect health impact, especially psychosocial effects, caused by technological disasters like nuclear accidents Includes contributions from experts in the field who participated in the recovery efforts and are currently researching the health impact of the Fukushima disaster

Autonomous Nuclear Power Plants with Artificial Intelligence Jul 30 2019 This book introduces novel approaches and practical examples of autonomous nuclear power plants that minimize operator intervention. Autonomous nuclear power plants with artificial intelligence presents a framework to enable nuclear power plants to autonomously operate and introduces artificial intelligence (AI) techniques to implement its functions. Although nuclear power plants are already highly automated to reduce human errors and guarantee the reliability of system operations, the term "autonomous" is still not popular because AI techniques are regarded as less proven technologies. However, the use of AI techniques and the autonomous operation seems unavoidable because of their great advantages, especially, in advanced reactors and small modular reactors. The book includes the following topics: Monitoring, diagnosis, and prediction. Intelligent control. Operator support systems. Operator-autonomous system interaction. Integration into the autonomous operation system. This book will provides useful information for researchers and students who are interested in applying AI techniques in the fields of nuclear as well as other industries. This book covers broad practical applications of AI techniques from the classical fault diagnosis to more recent autonomous control. In addition, specific techniques and modelling examples are expected to be very informative to the beginners in the AI studies

Stepfamily Relationships Mar 18 2021 This volume focuses on a wide range of behaviors and outcomes in stepfamily relationships, both positive and negative. The authors use the normative-adaptive perspective to seek out and study adaptive, well-functioning stepfamilies and find how they differ from those who struggle to cope. It will be a welcome text and reference for all those who study and work with stepfamilies and families in general.

**Nuclear Medicine Technology Nov 13 2020** Completely updated with the latest advances in imaging technology, this quick-reference manual is the only procedures guide specifically geared to nuclear medicine technologists. It provides detailed, easy-to-follow instructions for 61 scan procedures, including listings of possible artifacts and problems that may arise during each scan. An extensive quick-reference section includes conversion tables, radiopharmaceutical dose ranges, pediatric dosing, anatomy drawings, standard drug interventions, lab tests, language translations, thyroid therapy information, billing codes, and reproducible patient history sheets for 20 scans.

**Nuclear Engineering Aug 11 2020** Nuclear Engineering: A Conceptual Introduction to Nuclear Power provides coverage of the introductory, salient principles of nuclear engineering in a comprehensive manner for those entering the profession at the end of their degree. The nuclear power industry is undergoing a renaissance because of the desire for low-carbon baseload electricity, the growing population, and environmental concerns about shale gas, so this book is a welcomed addition to the science. In addition, users will find a great deal of information on the change in the industry, along with other topical areas of interest that are uniquely covered. Intended for undergraduate students or early postgraduate students studying nuclear engineering, this new text will also be appealing to scientifically-literate non-experts wishing to be better informed about the 'nuclear option'. Presents a succinct and clear explanation of the key facts and concepts on how nuclear engineering power systems function and how their related fuel supply cycles operate. Provides full coverage of the nuclear fuel cycle, including its scientific and historical basis. Describes a comprehensive range of relevant reactor designs, from those that are defunct, current, and in plan/construction for the future, including SMRs and GenIV. Summarizes all major accidents and their impact on the industry and society.

**Therapeutic Nuclear Medicine Mar 06 2020** The recent revolution in molecular biology offers exciting new opportunities for targeted radionuclide therapy. This up-to-date, comprehensive book, written by world-renowned experts, discusses the basic principles of radionuclide therapy, explores in detail the available treatments, explains the regulatory requirements, and examines likely future developments. The full range of clinical applications is considered, including thyroid cancer, hematological malignancies, brain tumors, liver cancer, bone and joint disease, and neuroendocrine tumors. The combination of theoretical background and practical information will provide the reader with all the knowledge required to administer radionuclide therapy safely and effectively in the individual patient. Careful attention is also paid to the role of the therapeutic nuclear physician in coordinating a diverse multidisciplinary team, which is central to the safe provision of treatment.

**The Nuclear Club Jan 04 2020** The Nuclear Club is a globe-spanning history of the campaign to ban the spread of nuclear weapons to new countries from the Manhattan Project to the opening for signature of the Nuclear Non-Proliferation Treaty at the height of America's Vietnam War.

**Principles for Establishing Intervention Levels for the Protection of the Public in the Event of a Nuclear Accident Or Radiological Emergency Mar 30 2022**

**Nuclear Politics in Asia Jun 01 2022** Asia has the world's highest concentration of nuclear weapons and the most significant recent developments related to nuclear proliferation, as well as the world's most critical conflicts and considerable political instability. The containment and prevention of nuclear proliferation, especially in Asia, continues to be a grave concern for the international community. This book provides a comprehensive overview of the state of nuclear arsenals, nuclear ambitions and nuclear threats across different parts of Asia. It covers the Middle East (including Israel), China, India-Pakistan and their confrontation, as well as North Korea. It discusses the conventional warfare risks, risks from non-state armed groups, and examines the attempts to limit and control nuclear weapons, both international initiatives and American diplomacy and interventions. The book concludes by assessing the possibility of nuclear revival, the potential outcomes of international approaches to nuclear disarmament, and the efficacy of coercive diplomacy in containing nuclear proliferation.

**Nuclear Medicine Resources Manual Oct 25 2021** Medical imaging is crucial in a variety of medical settings and at all levels of health care. In public health and preventive medicine as well as in both curative and palliative care, effective decisions depend on correct diagnoses. This edition addresses the most current needs and offers guidance on clinical practice, radiation safety and patient protection, human resource development and training required for the overall practice of nuclear medicine.

**Guidelines for Planning Interventions Against External Exposure in Industrial Area After a Nuclear Accident Sep 04 2022**

**Safety of Nuclear Power Plants Aug 30 2019** On the basis of the principles included in the Fundamental Safety Principles, IAEA Safety Standards Series No. SF-1, this Safety Requirements publication establishes requirements applicable to the design of nuclear power plants. It covers the design phase and provides input for the safe operation of the power plant. It elaborates on the safety objective, safety principles and concepts that provide the basis for deriving the safety requirements that must be met for the design of a nuclear power plant. Contents: 1. Introduction; 2. Applying the safety principles and concepts; 3. Management of safety in design; 4. Principal technical requirements; 5. General plant design; 6. Design of specific plant systems.

**System Safety Oct 01 2019** In the science of safety, risk analysis and problem identification are well understood. What appears to be missing is a better understanding of the methods and strategies, which could help to close the gap between analysis and corrective action.

**Nuclear Cardiology Feb 03 2020**

**Nuclear Emergency Data Management Oct 13 2020**

**Current Nuclear Power Plant Safety Issues Jan 28 2022**

**Diseases of the Chest, Breast, Heart and Vessels 2019-2022 Sep 11 2020** This open access book focuses on diagnostic and interventional imaging of the chest, breast, heart, and vessels. It consists of a remarkable collection of contributions authored by internationally respected experts, featuring the most recent diagnostic developments and technological advances with a highly didactical approach. The chapters are disease-oriented and cover all the relevant imaging modalities, including standard radiography, CT, nuclear medicine with PET, ultrasound and magnetic resonance imaging, as well as imaging-guided interventions. As such, it presents a comprehensive review of current knowledge on imaging of the heart and chest, as well as thoracic interventions and a selection of "hot topics". The book is intended for radiologists, however, it is also of interest to clinicians in oncology, cardiology, and pulmonology.

**Nuclear Medicine Physics Feb 26 2022** This publication provides the basis for the education of medical physicists initiating their university studies in the field of nuclear medicine. The handbook includes 20 chapters and covers topics relevant to nuclear medicine physics, including basic physics for nuclear medicine, radionuclide production, imaging and non-imaging detectors, quantitative nuclear medicine, internal dosimetry in clinical practice and radionuclide therapy. It provides, in the form of a syllabus, a comprehensive overview of the basic medical physics knowledge required for the practice of medical physics in modern nuclear medicine.

**Nuclear Safety Dec 15 2020** Nuclear Safety provides the methods and data needed to evaluate and manage the safety of nuclear facilities and related processes using risk-based safety analysis, and provides readers with the techniques to assess the consequences of radioactive releases. The book covers relevant international and regional safety criteria (US, IAEA, EUR, PUN, URD, INI). The contents deal with each of the critical components of a nuclear plant, and provide an analysis of the risks arising from a variety of sources, including earthquakes, tornadoes, external impact and human factors. It also deals with the safety of underground nuclear testing and the handling of radioactive waste. Covers all plant components and potential sources of risk including human, technical and natural factors. Brings together information on nuclear safety for which the reader would previously have to consult many different and expensive sources. Provides international design and safety criteria and an overview of regulatory regimes.

**Japan's Quest for Nuclear Energy and the Price It Has Paid Jun 20 2021** Japan's Quest for Nuclear Energy and the Price It Has Paid: Accidents, Consequences, and Lessons Learned for the Global Nuclear Industry identifies major accidents in Japan that have happened at different stages of the nuclear fuel cycle in Japan, assesses the underlying causes of nuclear accidents, and identifies other systemic problems in the nuclear industry. It provides recommendations on how government, industry and academic institutions can work together toward achieving a zero-accident safety culture. Reviews the history of Japan's nuclear programs and commercial activities from the 1950s to the present. Describes the underlying causes of major accidents that have afflicted Japan's nuclear industry, along with consequences, including technical difficulties, costs and program delays. Outlines the evolution of nuclear policies promoted by competing bureaucracies and how these rivalries influenced program priorities and impeded safety.

**Derived Intervention Levels for Application in Controlling Radiation Doses to the Public in the Event of a Nuclear Accident Or Radiological Emergency Jul 02 2022** Please note: this publication will be superseded by a later SST publication (possibly GSG-2).

**Delays in Nuclear Reactor Licensing and Construction Dec 03 2019**

**Advancing Nuclear Medicine Through Innovation Dec 27 2021** Nearly 20 million nuclear medicine procedures are carried out each year in the United States alone to diagnose and treat cancers, cardiovascular disease, and certain neurological disorders. Many of the advancements in nuclear medicine have been the result of research investments made during the past 50 years where these procedures are now a routine part of clinical care. Although nuclear medicine plays an important role in biomedical research and disease management, its promise is only beginning to be realized. Advancing Nuclear Medicine Through Innovation highlights the exciting emerging opportunities in nuclear medicine, which include assessing the efficacy of new drugs in development, individualizing treatment to the patient, and understanding the biology of human diseases. Health care and pharmaceutical professionals will be most interested in this book's examination of the challenges the field faces and its recommendations for ways to reduce these impediments.

**Intervention Criteria in a Nuclear Or Radiation Emergency Nov 06 2022** This safety guide represents an international consensus and understanding on principles for intervention and numerical values for generic intervention levels. It became clear during the Chernobyl Project that there was a need for clarification of the international guidance on intervention and, moreover, for a simple set of internally consistent intervention levels having some generic application internationally. The recommendations in this publication are the basis for the standards and numerical guidance related to intervention contained in the International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources (jointly sponsored by FAO, IAEA, ILO, OECD/NEA, PAHO and WHO).

**Oxford Handbook of Clinical and Laboratory Investigation May 20 2021** With major advances in technology there are thousands of clinical and laboratory tests available, forming a key part of the diagnostic process in the highly complex field of modern medicine. This handbook provides a patient-orientated approach to investigation, with a comprehensive review of specialty-related tests. Written in the Oxford Handbook style, this book features references and up-to-date website links for extra clinical detail. This new edition has been revised to include the most recent developments in investigatory tests, with clear step-by-step instructions and updated illustrations to provide greater clarifying background to the text. Written by an experienced team of active clinicians, this is invaluable for junior doctors as a quick reference, as well as senior medical students preparing for examinations.

**Handbook on Nuclear Law Oct 05 2022** This handbook is a practical aid to legislative drafting that brings together, for the first time, model texts of provisions covering all aspects of nuclear law in a consolidated form. Organised along the same lines as the Handbook on Nuclear Law, published by the IAEA in 2003, and containing updated material on new legal developments, this publication represents an important companion resource for the development of new or revised nuclear legislation, as well as for instruction in the fundamentals of nuclear law. It will be particularly useful for those Member States embarking on new or expanding existing nuclear programmes.

**U.S. Interests and Intervention in the Nuclear Age Sep 23 2021** This report considers what interests the United States has risked the use of nuclear weapons to defend, under what conditions it might do so in the future, and the kinds of risks that would be involved. It discusses concepts and definitions surrounding the use of nuclear weapons in the defense of interests, outlines the history of U.S. pursuit of national interests by military means, and analyzes the debate over the same issues in terms of opposing schools of thought involved today and as they have developed over the past 25 years.

**Image-Guided Interventions E-Book Jul 22 2021** Completely revised to reflect recent, rapid changes in the field of interventional radiology (IR), Image-Guided Interventions, 3rd Edition, offers comprehensive, narrative coverage of vascular and nonvascular interventional imaging—ideal for IR subspecialists as well as residents and fellows in IR. This award-winning title provides clear guidance from global experts, helping you formulate effective treatment strategies, communicate with patients, avoid complications, and put today's newest technology to work in your practice. Offers step-by-step instructions on a comprehensive range of image-guided intervention techniques, including discussions of equipment, contrast agents, pharmacologic agents, antiplatelet agents, and classic signs, as well as detailed protocols, algorithms, and SIR guidelines. Includes new chapters on Patient Preparation, Prostate Artery Embolization, Management of Acute Aortic Syndrome, Percutaneous Arterial Venous Fistula Creation, Lymphatic Interventions, Spinal and Paraspinal Nerve Blocks, and more. Employs a newly streamlined format with shorter, more digestible chapters for quicker reference. Integrates new patient care and communication tips throughout to address recent changes in practice. Highlights indications and contraindications for interventional procedures, and provides tables listing the materials and instruments required for each. Features more than 2,300 state-of-the-art images demonstrating IR procedures, full-color illustrations of anatomical structures and landmarks, and video demonstrations online. 2014 BMA Medical Book Awards Highly Commended in Radiology category!