

# **RADIATION PROTECTION**

## **IN MEDICAL RADIOGRAPHY**

**9TH EDITION**

**MARY ALICE STATKIEWICZ SHERER  
PAULA J. VISCONTI  
E. RUSSELL RITENOUR  
KELLI WELCH HAYNES**



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# Radiation Protection In Medical Radiography

**Mary Alice Statkiewicz Sherer, Paula J.  
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## **Radiation Protection In Medical Radiography:**

*Radiation Protection in Medical Radiography - E-Book* Mary Alice Statkiewicz Sherer, Paula J. Visconti, E. Russell Ritenour, Kelli Welch Haynes, 2013-12-13 A full color resource *Radiation Protection in Medical Radiography* 7th Edition makes it easy to understand both basic and complex concepts in radiation protection biology and physics Concise coverage promotes the safe use of ionizing radiation in all imaging modalities including the effects of radiation on humans at the cellular and systemic levels regulatory and advisory limits for human exposure to radiation and the implementation of radiation safety practices for patients and personnel This edition includes NEW content on the impact of radiation levels during the nuclear power plant crisis that followed the 2011 earthquake tsunami in Japan From an author team led by well known radiation protection expert Mary Alice Statkiewicz Sherer this text has consistently helped students perform well on the ARRT exam well written and easy to comprehend Reviewed by Kirsten Farrell on behalf of RAD Magazine March 2015 Full color illustrations reinforce important information Convenient easy to use features include chapter outlines and objectives highlighting of key terms and bulleted summaries and review questions to enhance comprehension and retention Clear and concise writing style covers complex concepts in radiation protection biology and physics in a building block approach from basic to more complex concepts Review questions are included at the end of chapters to assess your comprehension with answers on the Evolve companion website Coverage of historical radiological disasters includes photos and text on Hiroshima Chernobyl and Three Mile Island UPDATED NCRP and ICRP content includes guidelines regulations and radiation quantities and units explaining the effects of low level ionizing radiation demonstrating the link between radiation and cancer and other diseases and providing the regulatory perspective needed for practice NEW Discussion of Total Effective Dose Equivalent TEDE covers the radiation dosimetry quantity defined by the U S Nuclear Regulatory Commission to monitor and control human exposure to ionizing radiation NEW Coverage of the Fukushima Daiichi Nuclear Plant Crisis addresses the impact of radiation levels following Japan s earthquake tsunami in March 2011 NEW TRACE section covers the Tools for Radiation Awareness and Community Education program a two phase approach to radiation dose awareness and overall patient dose reduction through a joint venture of AHRA and Toshiba s Putting Patients First NEW Discussion of the FDA white paper Initiative to Reduce Unnecessary Exposure from Medical Imaging promotes the safe use of medical imaging devices supports informed clinical decision making and leads to increased patient awareness

**Radiation Protection in Medical Radiography - E-Book** Mary Alice Statkiewicz Sherer, Paula J. Visconti, E. Russell Ritenour, Kelli Welch Haynes, 2017-09-16 Gain a full understanding of both basic and complex concepts in radiation protection biology and physics Beautifully designed and easy to follow *Radiation Protection in Medical Radiography* 8th Edition promotes the safe use of ionizing radiation in all imaging modalities including the effects of radiation on humans at the cellular and systemic levels regulatory and advisory limits for human exposure to radiation and the implementation of

radiation safety practices for patients and personnel This market leading text reflects the latest ARRT and ASRT curriculum guidelines to help you succeed on the ARRT exam Plus the new edition includes tables with sensitivity ranges to provide easy reference for each type of dosimeter Convenient easy to use features include chapter outlines and objectives listing and highlighting of key terms and bulleted summaries general discussion questions and review questions to enhance student comprehension and retention NCRP and ICRP content includes guidelines regulations and radiation quantities and units explaining the effects of low level ionizing radiation demonstrating the link between radiation and cancer and other diseases and providing the regulatory perspective needed for practice Clear and concise writing style covers complex concepts in radiation protection biology and physics in a building block approach from basic to more complex concepts Timely coverage of radiation protection regulations addresses radiation awareness and education efforts across the globe NEW Chapter Radiation Safety in Computed Tomography and Mammography compiles content on tomography and mammography into one chapter UPDATED Full color equipment images and illustrations reinforce important information UPDATED Content reflects the latest ARRT and ASRT curriculum guidelines Review questions are included at the end of chapters to assess your comprehension with answers on the Evolve companion website NEW Key word glossary helps you find and understand need to know terms NEW Additional tables with sensitivity ranges makes each type of dosimeters easy to reference

*Radiation Protection in Medical Radiography - E-Book* Mary Alice Statkiewicz Sherer, Paula J. Visconti, E. Russell Ritenour, Kelli Welch Haynes, 2021-07-21 Master the basic principles and techniques of radiation safety Radiation Protection in Medical Radiography 9th Edition makes it easy to understand both basic and complex concepts in radiation protection radiobiology and radiation physics Concise full color coverage discusses the safe use of ionizing radiation in all imaging modalities including the effects of radiation on humans at the cellular and systemic levels regulatory and advisory limits for exposure to radiation and the implementation of radiation safety practices for patients and personnel From a team of authors led by radiologic technology educator Mary Alice Statkiewicz Sherer this text also prepares you for success on the ARRT certification exam and state licensing exams Clear and concise writing style covers key concepts in radiation protection biology and physics in a building block approach progressing from basic to more complex Convenient easy to use features make learning easier with chapter outlines and objectives listing and highlighting of key terms and bulleted summaries Full color illustrations and photos depict important concepts and tables make information easy to reference Timely coverage of radiation protection regulations addresses radiation awareness and education efforts across the globe Chapter summaries and review questions allow you to assess your comprehension and retention of the most important information with answers on the Evolve companion website NEW Updated content reflects the latest ARRT and ASRT curriculum guidelines NEW Updated NCRP and ICRP content includes guidelines regulations and radiation quantities and units explaining the effects of low level ionizing radiation demonstrating the link between radiation and cancer and other diseases and providing the

regulatory perspective needed for practice      Radiation Protection in Medical Radiography Mary Alice Statkiewicz-Sherer, Paula J. Visconti, E. Russell Ritenour, 2006 This easy to read text offers essential information on radiation protection and the biological effects of ionizing radiation to ensure its safe medical use Building from basic to more complex concepts this book also presents radiation physics cell structure effects of radiation on humans at the cellular and systemic levels regulatory and advisory limits for human exposure to radiation and the implementation of patient and personnel radiation protection practices Readability of text major concepts are concisely stated and physics material is very easy to understand Full color text and art program enhances and reinforces important elements Student friendly features includes objectives key terms chapter outlines review questions discussion questions chapter summaries and a glossary Hundreds of illustrations graphs tables and boxes convey critical information Historical perspective provides photos and text on Hiroshima Chernobyl and Three Mile Island explaining the effects of low level ionizing radiation and demonstrating the link between radiation and cancer and other diseases Timely coverage of radiation protection regulations covers world federal and organizational guidelines and regulations for radiation protection Coverage of guidelines regulations and radiation quantities and units includes the most up to date information available from the National Council on Radiation Protection and Measurements NCRP and the International Commission of Radiological Protection ICRP New chapter on protection from radioactive materials present in the medical environment including a discussion of implications for medical personnel of treating victims of a dirty bomb Implications of direct and computed radiography for overexposure of patients to ionizing radiation Updated discussion about radiation protection for PET CT and C arm fluoroscopy Discussion questions supplement multiple choice review questions Improved readability with text sections adding more subheadings      **Workbook for Radiation Protection in Medical Radiography** Mary Alice Statkiewicz Sherer, Paula J. Visconti, PhD, DABR, E. Russell Ritenour, 2013-12-04 Enhance your understanding of radiation physics and radiation protection Corresponding to the chapters in *Radiation Protection in Medical Radiography* 7th Edition by Mary Alice Statkiewicz Sherer this workbook provides a clear comprehensive review of all the material included in the text Practical exercises help you apply your knowledge to the practice setting It is well written and easy to comprehend Reviewed by Kirsten Farrell University of Portsmouth Date Nov 2014 A comprehensive review includes coverage of all the material included in the text including x radiation interaction radiation quantities cell biology radiation biology radiation effects dose limits patient and personnel protection and radiation monitoring Chapter highlights call out the most important information with an introductory paragraph and a bulleted summary A variety of question formats includes multiple choice matching short answer fill in the blank true false labeling and crossword puzzles Calculation exercises offer practice in applying the formulas and equations introduced in the text Answers are provided in the back of the book so you can easily check your work      **Radiation Protection in Medical Radiography** Mary Alice Statkiewicz Sherer AS RT(R) FASRT, Paula J. Visconti DABR, E. Russell

Ritenour DABR FAAPM FACR, Kelli Welch Haynes RT (R) FASRT, 2021-10-19      **Workbook for Radiation Protection in Medical Radiography - E-Book** Kelli Haynes, Mary Alice Statkiewicz Sherer, Paula J. Visconti, E. Russell

Ritenour, 2013-12-27 With this workbook you will enhance your understanding of the material in Radiation Protection in Medical Radiography 6th Edition. Author Mary Alice Statkiewicz Sherer uses the same clear accessible approach as in the textbook, taking difficult topics and making them easier for you to learn and apply. Matching the chapters in the text, this workbook ensures that you understand radiation physics and radiation protection and are ready to apply your knowledge in the practice setting. Each chapter covers all material included in the text, providing a comprehensive review. Each chapter highlights important information with an introductory paragraph and a bulleted summary. A variety of question formats including matching, short discussion items, true/false, multiple choice, and fill-in-the-blank questions. Calculation exercises offer practice in using formulas and equations presented in the text. All answers available in the back of the book so you can easily check your work.      **Radiation Protection in Medical Radiography** Mary Alice Statkiewicz Sherer, 2013-12-18

Radiation Protection in Medical Imaging and Radiation Oncology Richard J. Vetter, Magdalena S. Stoeva, 2016-01-05  
Radiation Protection in Medical Imaging and Radiation Oncology focuses on the professional, operational, and regulatory aspects of radiation protection. Advances in radiation medicine have resulted in new modalities and procedures, some of which have significant potential to cause serious harm. Examples include radiologic procedures that require verification.      *Radiation Protection in Medical Radiography* Statkiewicz, 2002-06-05 This CD-ROM is a resource for instructors on the principles of radiation protection and the safe administration of radiation for the purpose of diagnosis and therapy.      **Workbook for Radiation Protection in Medical Radiography** Mary Alice Statkiewicz Sherer AS RT(R) FASRT, Paula J. Visconti DABR, E. Russell Ritenour DABR FAAPM FACR, Kelli Welch Haynes RT (R) FASRT, 2021-10-10      **Radiation Protection in Medical Radiography - Elsevier eBook on VitalSource (Retail Access Card)** Mary Alice Statkiewicz Sherer, Paula J. Visconti, E. Russell Ritenour, Kelli Welch Haynes, 2021-09-29 Master the basic principles and techniques of radiation safety. Radiation Protection in Medical Radiography 9th Edition makes it easy to understand both basic and complex concepts in radiation protection, radiobiology, and radiation physics. Concise, full-color coverage discusses the safe use of ionizing radiation in all imaging modalities, including the effects of radiation on humans at the cellular and systemic levels, regulatory and advisory limits for exposure to radiation, and the implementation of radiation safety practices for patients and personnel. From a team of authors led by radiologic technology educator Mary Alice Statkiewicz Sherer, this text also prepares you for success on the ARRT certification exam and state licensing exams. Clear and concise writing style covers key concepts in radiation protection, biology, and physics in a building block approach, progressing from basic to more complex. Convenient, easy-to-use features make learning easier with chapter outlines and objectives, listing and highlighting of key terms, and bulleted summaries. Full-color illustrations and photos depict important concepts, and tables make information easy to reference.

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calculation of barrier thicknesses The Report presents the fundamentals of radiation shielding discusses shielding design goals for controlled and uncontrolled areas in or near x ray imaging facilities and defines the relationship of these goals to the NCRP effective dose limits for radiation workers and members of the public The Report includes a detailed discussion of the recommended shielding design methodology for x ray imaging facilities and provides an extensive collection of shielding data and sample shielding calculations for various types of x ray imaging facilities The Report is mainly intended for those individuals who specialize in radiation protection However it will also be of interest to architects hospital administrators and related professionals concerned with the planning of new facilities that use x rays for medical imaging     **Medical X-ray, Electron Beam, and Gamma-ray Protection for Energies Up to 50 MeV** National Council on Radiation Protection and Measurements,1989



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