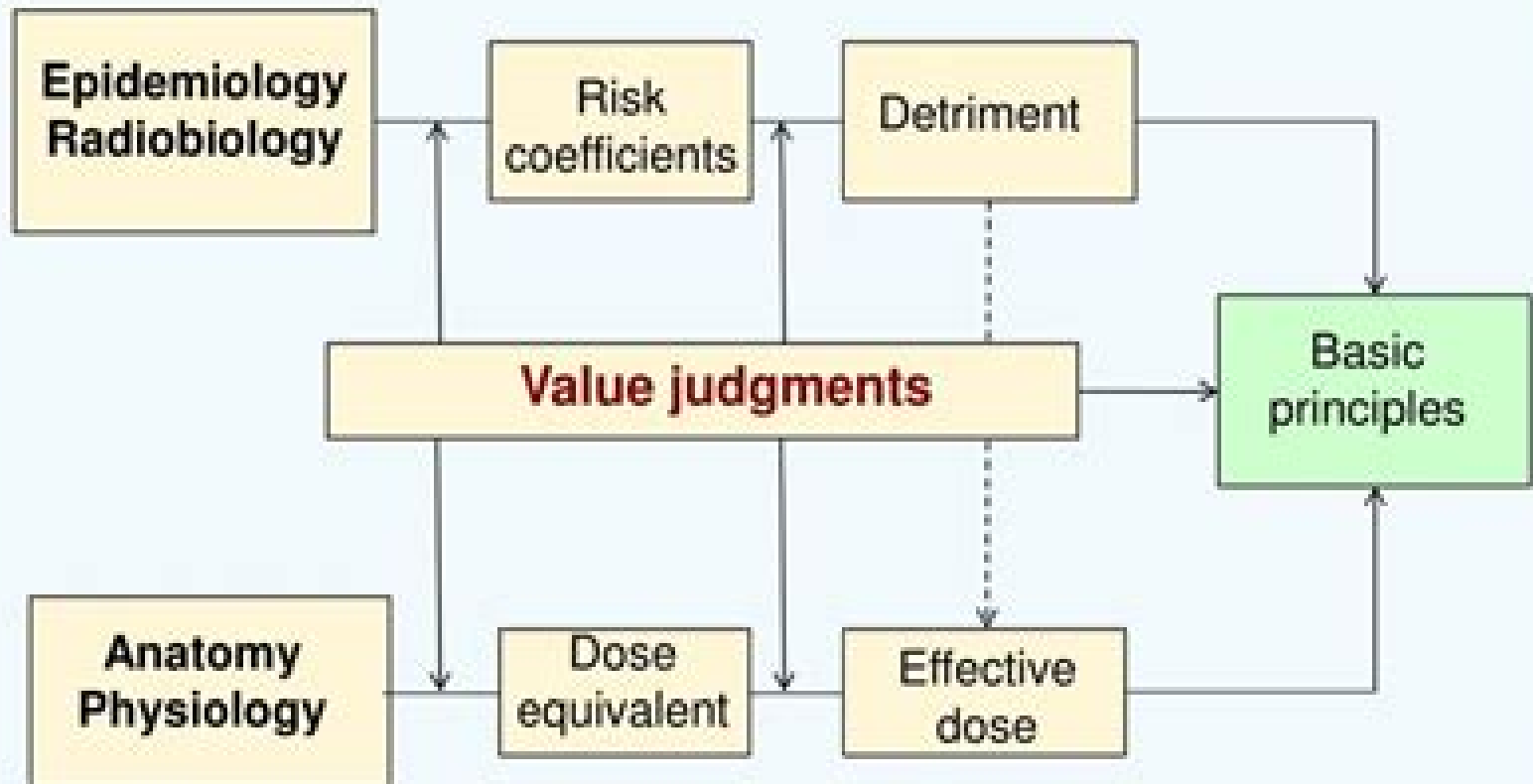


# The scientific basis of the radiological protection system



# Radiological Protection In Biomedical Research

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## **Radiological Protection In Biomedical Research:**

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**Radiological Protection in Biomedical Research** International Commission on Radiological Protection. Committee 3,1993

**Radiological Protection in Biomedical Research** ,1991 **ICRP Publication 105** ICRP,2008-12-22 This report was prepared to underpin the Commission s 2007 Recommendations with regard to the medical exposure of patients including their comforters and carers and volunteers in biomedical research It addresses the proper application of the fundamental principles justification optimisation of protection and application of dose limits of the Commission s 2007 Recommendations to these individuals With regard to medical exposure of patients it is not appropriate to apply dose limits or dose constraints because such limits would often do more harm than good Often there are concurrent chronic severe or even life threatening medical conditions that are more critical than the radiation exposure The emphasis is then on justification of the medical procedures and on the optimisation of radiological protection In diagnostic and interventional procedures justification of procedures for a defined purpose and for an individual patient and management of the patient dose commensurate with the medical task are the appropriate mechanisms to avoid unnecessary or unproductive radiation exposure Equipment features that facilitate patient dose management and diagnostic reference levels derived at the appropriate national regional or local level are likely to be the most effective approaches In radiation therapy the avoidance of accidents is a predominant issue With regard to comforters and carers and volunteers in biomedical research dose constraints are appropriate Over the last decade the Commission has published a number of documents that provided detailed advice related to radiological protection and safety in the medical applications of ionising radiation Each of the publications addressed a specific topic defined by the type of radiation source and the medical discipline in which the source is applied and was written with the intent of communicating directly with the relevant medical practitioners and supporting medical staff This report consolidates that advice

Guidance on Medical Exposures in Medical and Biomedical Research European Commission. Directorate-General for Environment, Nuclear Safety, and Civil Protection,1998

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**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 ve

**Radiation Protection in Nuclear Medicine** Sören Mattsson,Christoph Hoeschen,2012-09-13 This book explains clearly and in detail all aspects of radiation protection in nuclear medicine including measurement quantities and units detectors and dosimeters and radiation biology Discussion of

radiation doses to patients and to embryos fetuses and children forms a central part of the book Phantom models biokinetic models calculations and software solutions are all considered and a further chapter is devoted to quality assurance and reference levels Occupational exposure also receives detailed attention Exposure resulting from the production labeling and injection of radiopharmaceuticals and from contact with patients is discussed and shielding calculations are explained The book closes by considering exposure of the public and summarizing the rules of thumb for radiation protection in nuclear medicine This is an ideal textbook for students and a ready source of useful information for nuclear medicine specialists and medical physics experts

**Drug Discovery and Evaluation: Methods in Clinical Pharmacology** H.Gerhard Vogel,Jochen Maas,Alexander Gebauer,2010-12-15 Drug Discovery and Evaluation has become a more and more difficult expensive and time consuming process The effect of a new compound has to be detected by in vitro and in vivo methods of pharmacology The activity spectrum and the potency compared to existing drugs have to be determined As these processes can be divided up stepwise we have designed a book series Drug Discovery and Evaluation in the form of a recommendation document The methods to detect drug targets are described in the first volume of this series Pharmacological Assays comprising classical methods as well as new technologies Before going to man the most suitable compound has to be selected by pharmacokinetic studies and experiments in toxicology These preclinical methods are described in the second volume Safety and Pharmacokinetic Assays Only then are first studies in human beings allowed Special rules are established for Phase I studies Clinical pharmacokinetics are performed in parallel with human studies on tolerability and therapeutic effects Special studies according to various populations and different therapeutic indications are necessary These items are covered in the third volume Methods in Clinical Pharmacology

**Handbook of Radiotherapy Physics** P Mayles,A Nahum,J.C Rosenwald,2007-06-12 From background physics and biological models to the latest imaging and treatment modalities the Handbook of Radiotherapy Physics Theory and Practice covers all theoretical and practical aspects of radiotherapy physics In this comprehensive reference each part focuses on a major area of radiotherapy beginning with an introduction by the

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**XIV Mediterranean Conference on Medical and Biological Engineering and Computing 2016** Efthyvoulos Kyriacou, Stelios Christofides, Constantinos S. Pattichis, 2016-03-31 This volume presents the proceedings of Medicon 2016 held in Paphos Cyprus Medicon 2016 is the XIV in the series of regional meetings of the International Federation of Medical and Biological Engineering IFMBE in the Mediterranean The goal of Medicon 2016 is to provide updated information on the state of the art on Medical and Biological Engineering and Computing under the main theme Systems Medicine for the Delivery of Better Healthcare Services Medical and Biological Engineering and Computing cover complementary disciplines that hold great promise for the advancement of research and development in complex medical and biological systems Research and development in these areas are impacting the science and technology by advancing fundamental concepts in translational medicine by helping us understand human physiology and function at multiple levels by improving tools and techniques for the detection prevention and treatment of disease Medicon 2016 provides a common platform for the cross fertilization of ideas and to help shape knowledge and scientific achievements by bridging complementary disciplines into an interactive and attractive forum under the special theme of the conference that is Systems Medicine for the Delivery of Better Healthcare Services The programme consists of some 290 invited and submitted papers on new developments around the Conference theme presented in 3 plenary sessions 29 parallel scientific sessions and 12 special sessions

*The Future of Low Dose Radiation Research in the United States* National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, 2020-01-13 Exposures at low doses of radiation generally taken to mean doses below 100 millisieverts are of primary interest for setting standards for protecting individuals against the adverse effects of ionizing radiation However there are considerable uncertainties associated with current best estimates of risks and gaps in knowledge on critical scientific issues that relate to low dose radiation The Nuclear and Radiation Studies Board of the National Academies hosted the symposium on The Future of Low Dose Radiation Research in the United States on May 8 and 9 2019 The goal of the symposium was to provide an open forum for a national discussion on the need for a long term strategy to guide a low dose radiation research program in the United



States The symposium featured presentations on low dose radiation programs around the world panel discussions with representatives from governmental and nongovernmental organizations about the need for a low dose radiation research program reviews of low dose radiation research in epidemiology and radiation biology including new directions and lessons to be learned from setting up large research programs in non radiation research fields This publication summarizes the presentation and discussion of the symposium

*Physics for Diagnostic Radiology, Third Edition* Philip Palin Dendy, Brian Heaton, 2011-08-04 With every chapter revised and updated *Physics for Diagnostic Radiology Third Edition* continues to emphasise the importance of physics education as a critical component of radiology training This bestselling text helps readers understand how various imaging techniques work from planar analogue and digital radiology to computed tomography CT nuclear medicine and positron emission tomography PET to ultrasound imaging and magnetic resonance imaging MRI New to the Third Edition Material on digital receptors Emphasis on the differences between analogue and digital images Coverage of multi slice CT and three dimensional resolution dual energy applications and cone beam CT Special radiographic techniques including subtraction techniques and interventional radiology New chapter on PET with discussion of multi modality imaging PET CT Additional material on radiation doses and risks to patients New chapter covering picture archiving and communication system PACS teleradiology networks archiving and related factors A summary of the main teaching points at the beginning of each chapter After an introductory chapter on basic physics the book follows the x ray imaging process production of x rays interaction with the patient radiation measurement the image receptor the radiological image and image quality assessment It then covers more advanced x ray techniques as well as imaging with radioactive materials The text also focuses on radiobiology risk and radiation protection and imaging with non ionising radiation The final chapter discusses data handling in a modern electronic radiology department

*Social and Ethical Aspects of Radiation Risk Management* Deborah Oughton, Sven Ove Hansson, 2013-09-07 *Social and Ethical Aspects of Radiation Risk Management* provides a comprehensive treatment of the major ethical and social issues resulting from the use of ionizing radiation It covers topics such as nuclear fuel cycles radioactive waste treatment nuclear bomb testing nuclear safety management stakeholder engagement cleanup after nuclear accidents ecological risks from radiation environmental justice health and safety for radiation workers radiation dose standards the ethics of clinical radiology and the principles of radiation protection and their ethical underpinnings With authors ranging from philosophers to radiation protection officials and practitioners the book spans from theoretical to practical implications of this important area of radiation risk assessment and management Covers all the major social and ethical issues in relation to radiation protection Information is easily accessible and non technical Authors include leading radiation protection officials as well as specialists who are more independent of the radiation protection system thus presenting both authoritative and more critical views Includes theoretical perspectives as well as practical experience

**CRC Handbook of Management of Radiation Protection**

**Programs, Second Edition** Kenneth L. Miller, 2020-08-11 CRC Handbook of Management of Radiation Protection Programs 2nd Edition is unique in that it offers practical guidance for managing various aspects of radiation protection programs ranging from the daily operation of a health physics office to the preparation of radiation experts for court appearances as professional witnesses. The book also covers such topics as organization and management of nonionizing radiation safety programs with special emphasis on laser safety programs and management of radioactive waste, personnel monitoring programs, radiation accident victims, internal exposure, relative radiotoxicity, and radiation therapy patients. Other chapters discuss handling radiation accidents and education and training requirements for radiation protection. Legal aspects covered in the book include the history of radiation court cases, legal implications of record keeping, and preparation for court appearances. CRC Handbook of Management of Radiation Protection Programs 2nd Edition will be a valuable reference resource for medical and health physicists, industrial hygienists, physicians, nuclear engineers, radiation protection regulators, radiation emergency management agents, radiation safety committees, and managers of facilities using ionizing and nonionizing radiation sources.

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