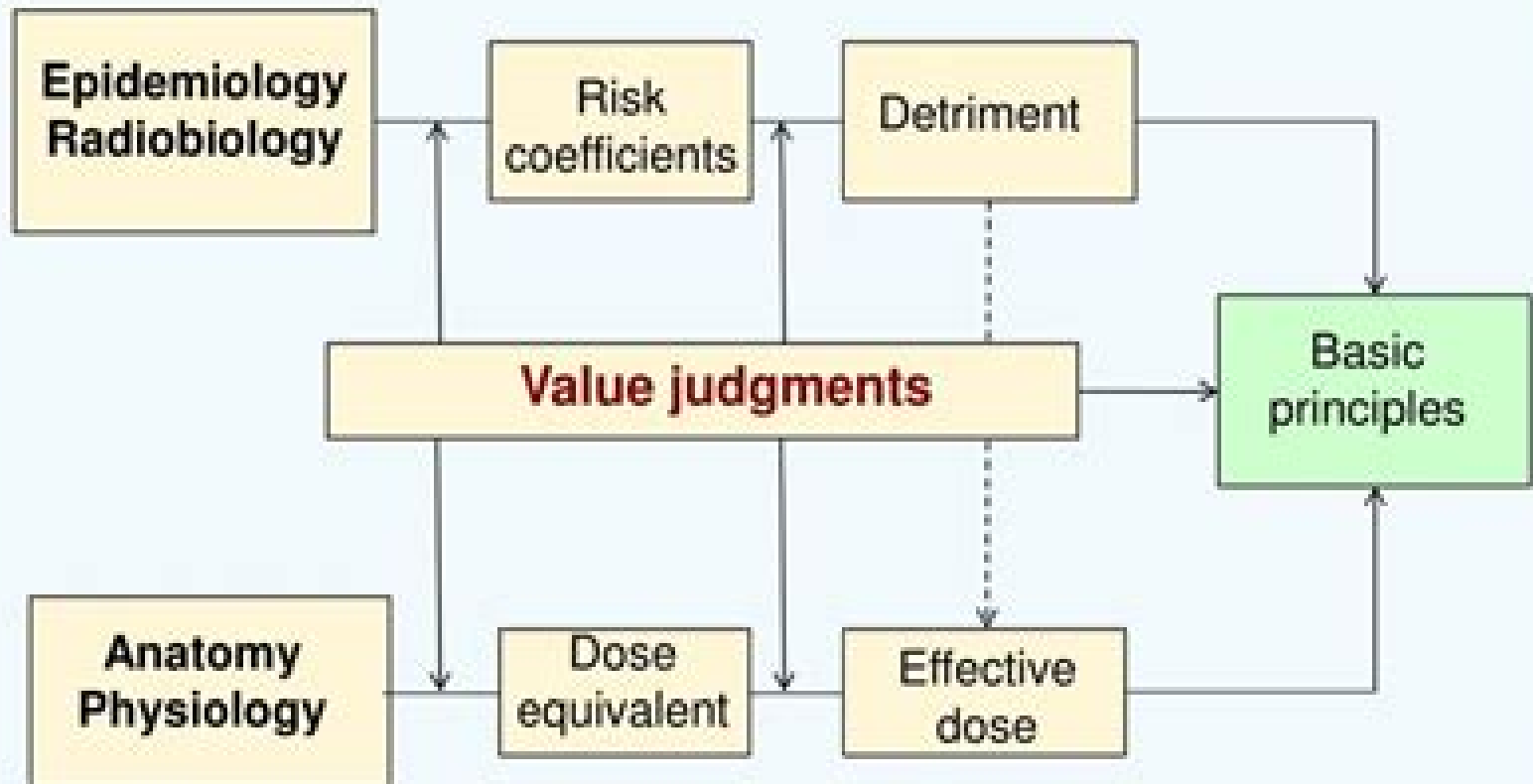


# The scientific basis of the radiological protection system



# Radiological Protection In Biomedical Research

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

**ICRP Publication 62** ICRP,1993-05-01 In recent years much progress has been made in radiological methods in dosimetry and in the knowledge of radiation effects The ICRP has increased its risk estimates and in addition more extensive information has become available on the effect of age at exposure on gender differences on the magnitude of risk and on the consequences on in utero irradiation The objective of Radiological Protection in Biomedical Research is to provide advice to individuals planning such research those involved in issuing general rules of conduct and those engaged in evaluation of specific research projects The report should also be made available to those who may become the subject of investigations patients volunteers Published with this report is a Summary of the current ICRP Principles for Protection of the Patient in Diagnostic Radiology This has been prepared to encourage medical professionals to become aware of and to utilise those basic principles and is an update of a previous summary that appeared in ICRP Publication 57 1989 Finally the report includes Addendum 1 to ICRP Publication 53 on Radiation Dose to Patients from Radiopharmaceuticals this part of the report however is superseded by ICRP Publication 80

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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

**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

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

**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

**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

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