



# Radiation Dose to Patients from Radiopharmaceuticals

ICRP Publication 128

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M. ANDERSSON

# Radiation Dose To Patients From Radiopharmaceuticals

**ICRP**



## **Radiation Dose To Patients From Radiopharmaceuticals:**

*ICRP Publication 128* ICRP,2015-11-04 This report provides a compendium of current information relating to radiation dose to patients including biokinetic models biokinetic data dose coefficients for organ and tissue absorbed doses and effective dose for major radiopharmaceuticals based on ICRP radiation protection guidance These data were compiled from ICRP Publications 53 80 and 106 and related amendments and corrections This report also includes new information for <sup>82</sup>Rb chloride iodide <sup>123</sup>I <sup>124</sup>I <sup>125</sup>I and <sup>131</sup>I and <sup>123</sup>I labelled 2 carbomethoxy 3 4 iodophenyl N 3 fluoropropyl nortropane FPCIT The data presented in this report are intended for diagnostic nuclear medicine and not for therapeutic applications

*ICRP Publication 53* ICRP,1988-04-01 This publication presents biokinetic models and best estimates of biokinetic data for some 120 individual radiopharmaceuticals giving estimated absorbed doses including the range of variation to be expected in pathological states for adults children and the fetus Absorbed dose estimates are needed in clinical diagnostic work for judging the risk associated with the use of specific radiopharmaceuticals both for comparison with the possible benefit of the investigation and to help in giving adequate information to the patient These estimates provide guidance to ethics committees having to decide upon research projects involving the use of radioactive substances in volunteers who receive no individual benefit from the study This report while still an important source document is supplemented and amended by ICRP Publication 80

**ICRP Publication 80** ICRP,1999-10-01 ICRP Publication 80 provides biokinetic models absorbed doses effective doses using ICRP Publication 60 dosimetry for 10 new radiopharmaceuticals It also provides recalculated dose data for the 19 most frequently used radiopharmaceuticals from ICRP Publication 53 using ICRP Publication 60 dosimetry and corrects various printing errors in ICRP Publication 53 Furthermore the report reproduces with minor corrections and updates and therefore supersedes Addendum 1 to ICRP Publication 53 An integrated index to all radiopharmaceuticals treated in ICRP Publications so far includes a listing of effective doses per unit activity administered to adults The report also includes an Addendum to ICRP Publication 72 concerning age dependent doses to members of the public from intakes of radionuclides

*ICRP Publication 53* ICRP,1988-04-01 This publication presents biokinetic models and best estimates of biokinetic data for some 120 individual radiopharmaceuticals giving estimated absorbed doses including the range of variation to be expected in pathological states for adults children and the fetus Absorbed dose estimates are needed in clinical diagnostic work for judging the risk associated with the use of specific radiopharmaceuticals both for comparison with the possible benefit of the investigation and to help in giving adequate information to the patient These estimates provide guidance to ethics committees having to decide upon research projects involving the use of radioactive substances in volunteers who receive no individual benefit from the study This report while still an important source document is supplemented and amended by ICRP Publication 80

**ICRP Publication 106** ICRP,2009-04-10 In this report the Commission provides biokinetic and dosimetric models for 33 radiopharmaceuticals as well as recommendations

related to breast feeding for mothers who have undergone a nuclear medicine investigation The report is based on Addenda 3 9 to Publication 53 Addenda 3 7 have been available on the ICRP website [www.icrp.org](http://www.icrp.org) as interim reports The work has been carried out by a Joint Task Group of ICRP Committees 2 and 3 This publication provides biokinetic models absorbed doses and effective doses for the following radiopharmaceuticals C 11 acetate C 11 amino acids C 11 brain receptor substances C 11 methionine F 18 amino acids F 18 FET F 18 FDG In 111 monoclonal antibodies fragments I 123 fatty acids BMIPP IPPA I 123 monoclonal antibodies fragments I 131 monoclonal antibodies fragments and Tl 201 ion The publication also provides realistic maximum models for C 11 and F 18 substances for which no specific models are available **Radiation Dose to**

**Patients from Radiopharmaceuticals**, 1999 *ICRP Publication 106* ICRP, 2009-04-10 In this report the Commission provides biokinetic and dosimetric models for 33 radiopharmaceuticals as well as recommendations related to breast feeding for mothers who have undergone a nuclear medicine investigation The report is based on Addenda 3 9 to Publication 53 Addenda 3 7 have been available on the ICRP website [www.icrp.org](http://www.icrp.org) as interim reports The work has been carried out by a Joint Task Group of ICRP Committees 2 and 3 This publication provides biokinetic models absorbed doses and effective doses for the following radiopharmaceuticals C 11 acetate C 11 amino acids C 11 brain receptor substances C 11 methionine F 18 amino acids F 18 FET F 18 FDG In 111 monoclonal antibodies fragments I 123 fatty acids BMIPP IPPA I 123 monoclonal antibodies fragments I 131 monoclonal antibodies fragments and Tl 201 ion The publication also provides realistic maximum models for C 11 and F 18 substances for which no specific models are available *Radiation dose to patients from radiopharmaceuticals A report of a Task Group of Committee 2 of the International Commission on Radiological Protection* International Commission on Radiological Protection ICRP, 1988 The Handbook of Radiopharmaceuticals Azuwuikwe Owunwanne, 2012-12-06 One Radiobiopharmaceutics 1 Preparation of radiopharmaceuticals Production of radionuclides Synthesis of the non radioactive compound Reaction of the radionuclide with the non radioactive compound References 2 Ideal characteristics of radiopharmaceuticals Availability and cost Preparation Biologic behavior Radionuclidic characteristics Hematology 3 Quality control of radiopharmaceuticals Biologic tests Physicochemical tests References 4 Design of radiopharmaceuticals Radionuclide Chemistry Biology Human studies Registration References 5 The fate of

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**Radiation Dose Studies** ,1974 International coverage Arranged by abstract numbers under volumes and years of Nuclear science abstracts Entries include title in English author address bibliographical information indication of original language and rather lengthy abstract Subject index      *Radiation Dose to Patients from Radiopharmaceuticals* ,1988      *Handbook of Nuclear Medicine and Molecular Imaging for Physicists* Michael Ljungberg,2022-02-08 Mathematical modelling is an important part of nuclear medicine Therefore several chapters of this book have been dedicated towards describing this topic In these chapters an emphasis has been put on describing the mathematical modelling of the radiation transport of photons and electrons as well as on the transportation of radiopharmaceuticals between different organs and compartments It also includes computer models of patient dosimetry Two chapters of this book are devoted towards introducing the concept of biostatistics and radiobiology These chapters are followed by chapters detailing dosimetry procedures commonly used in the context of diagnostic imaging as well as patient specific dosimetry for radiotherapy treatments For safety reasons many of the methods used in nuclear medicine and molecular imaging are tightly regulated Therefore this volume also highlights the basic principles for radiation protection It discusses the process of how guidelines and regulations aimed at minimizing radiation exposure are determined and implemented by international organisations Finally this book describes how different dosimetry methods may be utilized depending on the intended target including whole body or organ specific imaging as well as small scale to cellular dosimetry This text will be an invaluable resource for libraries institutions and clinical and academic medical physicists searching for a complete account of what defines nuclear medicine The most comprehensive reference available providing a state of the art overview of the field of nuclear medicine Edited by a leader in the field with contributions from a team of experienced medical physicists chemists engineers scientists and clinical medical personnel Includes the latest practical research in the field in addition to explaining fundamental theory and the field s history

*Clinical PET-CT in Radiology* Paul Shreve,David W. Townsend,2010-12-14 This book is specifically designed to meet the needs of practicing radiologists by offering a practical unified approach to PET CT It details how to effectively apply PET CT in patient management Written by radiologists who fully appreciate and understand both PET and CT the book details an integrated understanding of PET CT as a combined modality Clinical topics include PET CT of thoracic malignancies melanoma and breast cancer In addition the book reinforces fundamental concepts such as the role of imaging diagnosis in disease management      **Quality and Patient Safety in Medical Imaging** Jie Zhang,2025-05-30 This book serves as a comprehensive resource for both the public and professionals in the medical imaging field Its primary objective is to address the critical concerns related to quality and patient safety within the context of various imaging techniques The field of medical imaging is constantly evolving with advancements in technology and techniques making it crucial to stay updated with the latest information This book aims to bridge the knowledge gap in this domain by providing an in depth understanding of the indications performance and safety aspects of various imaging modalities Chapters offer insights into

the indications and performance of key imaging techniques including X ray magnetic resonance imaging MRI computed tomography CT ultrasound women s imaging DEXA Dual Energy X ray Absorptiometry dental imaging and nuclear medicine They additionally provide an up to date overview of quality assurance and quality control programs relevant to medical imaging and explore the safety concerns associated with imaging techniques including radiation exposure the use of contrast agents and image guided biopsy This book addresses a significant gap in the field of medical imaging by providing a comprehensive and up to date resource that is accessible It combines technical and clinical information with a focus on quality and safety making it an essential reference for individuals seeking to understand and navigate the complexities of medical imaging The book s structured approach incorporating the latest regulations and ongoing quality improvement efforts ensures that readers are equipped with the knowledge necessary to provide and receive safe and effective medical imaging services

**Low-level Radiation** United States. Department of Energy. Technical Information Center,1978

*Nuclear Medicine* United States. Department of Energy. Technical Information Center,1980      *Nuclear Medicine* ,1980

Nuclear Cardiac Imaging Ami E. Iskandrian,Fadi G. Hage,2024-02-16 Previous edition published as edited by Ami E Iskandrian Ernest V Garcia 2016

**World Congress on Medical Physics and Biomedical Engineering September 7 - 12, 2009 Munich, Germany** Olaf Dössel,Wolfgang C. Schlegel,2010-01-01 Present Your Research to the World The World Congress 2009 on Medical Physics and Biomedical Engineering the triennial scientific meeting of the IUPESM is the world s leading forum for presenting the results of current scientific work in health related physics and technologies to an international audience With more than 2 800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009 Medical physics biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades As new key technologies arise with significant potential to open new options in diagnostics and therapeutics it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output Covering key aspects such as information and communication technologies micro and nanosystems optics and biotechnology the congress will serve as an inter and multidisciplinary platform that brings together people from basic research R D industry and medical application to discuss these issues As a major event for science medicine and technology the congress provides a comprehensive overview and in depth first hand information on new developments advanced technologies and current and future applications With this Final Program we would like to give you an overview of the dimension of the congress and invite you to join us in Munich Olaf D ssel Congress President Wolfgang C

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