



# Radiation Dose to Patients from Radiopharmaceuticals

ICRP Publication 128

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M. ANDERSSON

# Radiation Dose To Patients From Radiopharmaceuticals

**Daniela Niemeyer**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular gradient shape partially visible behind it.

## **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 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 **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 **Radiation Dose to Patients from Radiopharmaceuticals** ,1999 **The Handbook of Radiopharmaceuticals** Azuwuike 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 **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** ,1988 *Human 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 **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.

**ICRP Publication 80** ICRP, 2015-10-29 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.

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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      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      Low-level Radiation United States. Department of Energy.

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comprehensive overview of the state of the art in the practice of radioguided surgery The opening section is devoted to the basic physics principles for detection and imaging radiation detection device technology principles of surgical navigation radionuclides and radiopharmaceuticals and radiation safety A series of chapters then address the clinical application of radioguided surgery for a variety of malignancies including breast cancer melanoma and other cutaneous malignancies gynecologic malignancies head and neck malignancies thyroid cancer urologic malignancies colon cancer gastroesophageal cancer lung cancer bone tumors parathyroid adenomas and neuroendocrine tumors For each application the recommended methodological approaches are discussed and the available cumulative clinical experiences of investigators from across the globe are reviewed A conscious effort is made to highlight recent developments and innovative multidisciplinary approaches within each clinical area Interesting issues and novel approaches are further explored through a collection of selected case reports at the end of the book The contributing authors are all experts in their own fields ensuring that the book will hold wide appeal for surgeons surgical technologists nuclear medicine physicians nuclear medicine technologists and various trainees      *Nuclear Medicine* ,1980      **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

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