

$$\text{Effective dose (sievert (Sv))} = \sum (\text{Tissue weighting factor} \times \text{Equivalent dose})$$

When the whole body is  
evenly exposed to  
**1 mGy** of  $\gamma$ -ray  
irradiation

Effective dose =

- $0.12 \times 1 \text{ (mSv): bone marrow}$
- $+ 0.12 \times 1 \text{ (mSv): colon}$
- $+ 0.12 \times 1 \text{ (mSv): lungs}$
- $+ 0.12 \times 1 \text{ (mSv): stomach}$
- :
- $+ 0.01 \times 1 \text{ (mSv): skin}$
- $= 1.00 \times 1 \text{ (mSv)}$

**= 1 millisievert (mSv)**



When only the head is  
exposed to **1 mGy** of  $\gamma$ -ray  
irradiation

Effective dose =

- $0.04 \times 1 \text{ (mSv): thyroid}$
- $+ 0.01 \times 1 \text{ (mSv): brain}$
- $+ 0.01 \times 1 \text{ (mSv): salivary gland}$
- $+ 0.12 \times 1 \text{ (mSv)} \times 0.1: \text{bone marrow (10\%)}$
- $+ 0.01 \times 1 \text{ (mSv)} \times 0.15: \text{skin (15\%)}$
- :

**= 0.07 millisieverts (mSv)**



# Patient Irradiation In Diagnostic Nuclear Medicine Assessment Of Absorbed Dose And Effective Dose Equivalent

**National Council on Radiation  
Protection and Measurements**



## **Patient Irradiation In Diagnostic Nuclear Medicine Assessment Of Absorbed Dose And Effective Dose Equivalent:**

Patient Irradiation in Diagnostic Nuclear Medicine Lennart Johansson, 1985      Patient Irradiation in Diagnostic Nuclear Medicine Lennart Johansson, 1985      *Exposure of the U.S. Population from Diagnostic Medical Radiation* National Council on Radiation Protection and Measurements, 1989      **The Practice of Internal Dosimetry in Nuclear Medicine** Michael G. Stabin, 2016-10-14

Written by one of the world's leading experts in the field of nuclear medicine dosimetry, this text describes in detail the use of internal dose calculations in the practice of nuclear medicine. While radiation therapy with external sources of radiation always employs calculations of dose to optimize therapy for each patient, this is not routinely conducted in nuclear medicine therapy. As the trend towards an increasing role of dosimetry in therapy planning increases, this book reviews the available methods and technologies available to make this a more common practice. The book begins by covering the mathematical fundamentals of internal dose calculations and uses sample calculations to demonstrate key principles. The book then moves forward to describe anthropomorphic models, dosimetric models, and types and uses of diagnostic and therapeutic radiopharmaceuticals. The depth of coverage makes it a useful reference and guide for researchers performing dose calculations and for physicians considering incorporating dose calculations into the treatment of their cancer patients.

**Tracking Radiation Exposure from Medical Diagnostic Procedures** National Research Council, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Committee on Tracking Radiation Doses from Medical Diagnostic Procedures, 2012-07-12

The growing use of medical diagnostic procedures is correlated with tremendous and undeniable benefits in the care of most patients. However, it is accompanied by growing concerns about the risks associated with diagnostic computed tomography and other procedures that utilize ionizing radiation. A number of initiatives in radiation safety in medicine have taken place in the United States and internationally, each serving different purposes. Their ultimate goals are to provide higher quality clinical management of the patient and to ensure that reasonable steps are taken to keep the exposures as low as possible without compromising diagnostic efficacy. *Tracking Radiation Exposure from Medical Diagnostic Procedures: Workshop Reports* provides a summary of the presentations and discussions that took place during the December 8-9, 2011 workshop titled *Tracking Radiation Exposure from Medical Diagnostic Procedures*. This workshop was organized by the Nuclear and Radiation Studies Board of the National Academy of Sciences and sponsored by the Centers for Disease Control and Prevention, the U.S. Food and Drug Administration, and the U.S. Department of Health and Human Services. This workshop report was authored by a six-member committee of experts appointed by the National Academy of Sciences. This committee brought together public health regulators, physicians, manufacturers, researchers, and patients to explore why, what, and how to track exposure from medical diagnostic procedures and possible next steps.

Tracking Radiation Exposure from Medical Diagnostic Procedures National Research Council, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Committee on Tracking Radiation Doses

from Medical Diagnostic Procedures, 2012-06-12 The growing use of medical diagnostic procedures is correlated with tremendous and undeniable benefits in the care of most patients. However, it is accompanied by growing concerns about the risks associated with diagnostic computed tomography and other procedures that utilize ionizing radiation. A number of initiatives in radiation safety in medicine have taken place in the United States and internationally, each serving different purposes. Their ultimate goals are to provide higher quality clinical management of the patient and to ensure that reasonable steps are taken to keep the exposures as low as possible without compromising diagnostic efficacy.

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**Bulletin of the Atomic Scientists**, 1971-09 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world.

**Quality Control and Radiation Protection of the Patient in Diagnostic Radiology and Nuclear Medicine** G. Contento, 1995

**Radiation Protection of the Patient in Nuclear Medicine** Walter A. Langmead, 1983

*Relative Effective Dose Risk Based on Medical Diagnostic Modalities at the Nebraska Medical Center* Michael D. Petrocchi, 2011 The use of medical diagnostic imaging involving ionizing radiation has drastically increased in recent years, causing concern about possible long-term consequences such as the induction of cancer. Recognizing this recent trend, the Institutional Review Board (IRB) at the Nebraska Medical Center commissioned this study in order to determine effective doses and corresponding lifetime attributable risk of cancer for all diagnostic scans involving ionizing radiation at its facility. The eventual product will be an on-line dose calculator specific only to the Nebraska Medical Center's scanning protocols to be utilized by its physicians, researchers, and patients for education and informed consent policies. In all 32 conventional X-ray scans, 39 nuclear medicine scans, and over 100 individual Computed Tomography scans were analyzed to determine effective doses using the most current dosimetry data and computer software available at the time of this study.

The Biological Effects of Ionizing Radiation (BEIR VII) methodology was then applied for each nuclear medicine and CT scan's effective dose to estimate the Lifetime Attributable Risk (LAR) of developing cancer based on age and gender. Comparisons of effective doses were also made between similar diagnostic scans from Duke University Radiation Dose Assessment Resource (RADAR) and [www.xrayrisk.com](http://www.xrayrisk.com). Conventional X-ray effective dose

outcomes showed that there was no definitively higher rate of radiation dose between institutions Nuclear medicine effective doses varied considerably depending on the amount of radiopharmaceutical administered and source of dosimetry information acquired The computed tomography effective doses from the Nebraska Medical Center had higher values for scan regions that included the torso region with all other scans yielding similar effective doses Determining medical diagnostic radiation doses can be an intricate complex method It is pertinent that each institution wanting an accurate effective dose from their diagnostic scans base their calculations on individual scanning parameters and the most current radiation dosimetry information

**Internal Radiation Dose in Diagnostic Nuclear Medicine** Hans Detlev Roedler, Alexander Kaul, Gerald J. Hine, 1978

**General Concepts for the Dosimetry of Internally Deposited Radionuclides** National Council on Radiation Protection and Measurements, 1985 Handbook of Radiation Doses in Nuclear Medicine and Diagnostic X-Ray James G. Kereiakes, Marvin Rosenstein, 2019-06-13 Published in 1980 This book provides a convenient single source for practical information on doses from radiopharmaceuticals and from diagnostic X Rays

**Nuclear Medicine Radiation Dosimetry** Brian J McParland, 2010-07-03 Complexities of the requirements for accurate radiation dosimetry evaluation in both diagnostic and therapeutic nuclear medicine including PET have grown over the past decade This is due primarily to four factors Growing consideration of accurate patient specific treatment planning for radionuclide therapy as a means of improving the therapeutic benefit development of more realistic anthropomorphic phantoms and their use in estimating radiation transport and dosimetry in patients Design and use of advanced Monte Carlo algorithms in calculating the above mentioned radiation transport and dosimetry which require the user to have a thorough understanding of the theoretical principles used in such algorithms their appropriateness and their limitations increasing regulatory scrutiny of the radiation dose burden borne by nuclear medicine patients in the clinic and in the development of new radiopharmaceuticals thus requiring more accurate and robust dosimetry evaluations An element common to all four factors is the need for precise radiation dosimetry in nuclear medicine which is fundamental to the therapeutic success of a patient undergoing radionuclide therapy and to the safety of the patients undergoing diagnostic nuclear medicine and PET procedures As the complexity of internal radiation dosimetry applied to diagnostic and therapeutic nuclear medicine increases this book will provide the theoretical foundations for enabling the practising nuclear medicine physicist to understand the dosimetry calculations being used and their limitations allowing the research nuclear medicine physicist to critically examine the internal radiation dosimetry algorithms available and under development and providing the developers of Monte Carlo codes for the transport of radiation resulting from internal radioactive sources with the only comprehensive and definitive *Reference Doses and Quality in Medical Imaging* B. Bauer, 1998 *Fundamentals of Radiation Dosimetry* J.R Greening, 2017-12-14 This book reviews ionising radiation quantities and the relationships between them and discusses the principles underlying their measurement The emphasis is on the determination of absorbed dose and related dosimetric

quantities     The Experimental Basis for Absorbed-dose Calculations in Medical Uses of Radionuclides National Council on Radiation Protection and Measurements,1985     **Journal of Nuclear Medicine** Society of Nuclear Medicine. Medical Internal Radiation Dose Committee,1968     *Methods of Assessment of Absorbed Dose in Clinical Use of Radionuclides* International Commission on Radiation Units and Measurements,1979     **Advanced Radiation Protection Dosimetry** Shaheen Dewji,Nolan E. Hertel,2019-04-02 Although many radiation protection scientists and engineers use dose coefficients few know the origin of those dose coefficients This is the first book in over 40 years to address the topic of radiation protection dosimetry in intimate detail Advanced Radiation Protection Dosimetry covers all methods used in radiation protection dosimetry including advanced external and internal radiation dosimetry concepts and regulatory applications This book is an ideal reference for both scientists and practitioners in radiation protection and students in graduate health physics and medical physics courses Features A much needed book filling a gap in the market in a rapidly expanding area Contains the history evolution and the most up to date computational dosimetry models Authored and edited by internationally recognized authorities and subject area specialists Interrogates both the origins and methodologies of dose coefficient calculation Incorporates the latest international guidance for radiation dosimetry and protection

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Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Patient Irradiation In Diagnostic Nuclear Medicine Abebment Of Absorbed Dose And Effective Dose Equivalent**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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