

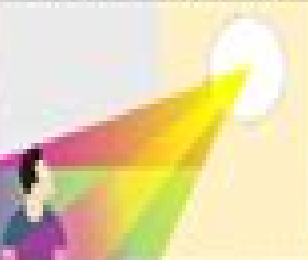

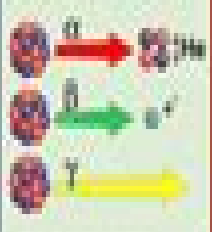



RADIATION UNITS OF MEASUREMENT

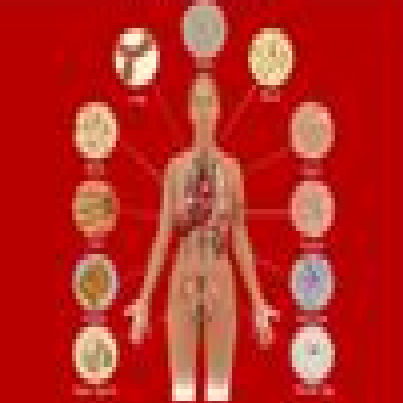
Radiation Classification
Measurement Category
Measurement Method
Measurement Type

ACTIVITY		EXPOSURE		DOSE	
DIRECT READING		CALCULATED VALUES			
DETECTOR	ACTIVITY	EXPOSURE	EXPOSURE RATE	ABSORBED DOSE	EQUIVALENT DOSE
					
Radiation interactions detected by a radiation detector and its associated counter	Amount of ionizing radiation released by unstable radioactive source through its decay process	The amount of energy contained in a cubic centimeter of air at standard temperature and pressure	The rate at which the ionizing energy is being delivered to a specific location	The accumulated dose absorbed to any material	The absorbed dose adjusted for the type of radiation
Each event = 1 count		$2.58 \times 10^{-4} \text{ C/kg}$		Exposure rate multiplied by exposure duration	alpha's $\times 1.25$ beta's, gamma, electrons $\times 1$
Counts/second (cps)	Disintegrations/second (dps)	Roentgen R	Roentgens/Year (R/Y)	Radiation Absorbed Dose (RAD)	Radiation Equivalent Dose (REM)
Counts/minute (cpm)	Disintegrations/minute (dpm)				
Counts/second (cps)	Curie (Ci) = 3.7×10^{10} dps	C/kg	Correct/Year (C/Y)	Gray (Gy)	Sievert (Sv)
Counts/minute (cpm)	Becquerel (Bq) = 1 dps				
	Rutherford (Rd) = 1.0×10^6 dps				

Tissue	Weighting Factor	Sum of Tissue Weighting Factors
bone marrow (red), colon, lung, stomach (small), weighting factors	0.12	0.12
breast	0.08	0.08
bladder, esophagus, liver, thyroid	0.04	0.04
bone surface, brain, nervous glands, skin	0.01	0.04
Total		1

Source: NRC, DOE and EPA (2002)

EFFECTIVE DOSE



The equivalent dose adjusted for the specific tissue type

Tissue	Weighting Factor	Sum of Tissue Weighting Factors
Bone marrow (red), colon, lung, stomach, breast, remaining tissues	0.12	0.12
ovaries	0.08	0.08
bladder, esophagus, liver, thyroid	0.04	0.16
Bone surface, brain, salivary glands, skin	0.01	0.04
Total		1

Measurement units: REM and Sieverts (Sv)

Measurement Conversions:
 1 Roentgen for 1 hour = 1 RAD of Absorbed Dose
 1 R = 1 RAD = 1 REM for Gamma and X-Ray Energies
 1 Sievert = 100 Roentgens
 1 Sievert = 100 REMs
 1 Gray = 100 Rads

Notes: Radiation counters like Geiger counters will assume conditions and apply calculations to the detected events to report activity, exposure rate, and absorbed dose.



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Radiation Protection Measurement

**National Council on Radiation
Protection and Measurements**



Radiation Protection Measurement:

Comparative Carcinogenicity of Ionizing Radiation and Chemicals National Council on Radiation Protection and Measurements, 1989 **SI Units in Radiation Protection and Measurements** National Council on Radiation Protection and Measurements, 1985 Radiation Protection Measurement Hans Kiefer, Rupprecht Maushart, 1972 Safe Handling of Radioactive Materials National Committee on Radiation Protection and Measurements (U.S.), 1964 **Radiation Protection for Medical and Allied Health Personnel** National Council on Radiation Protection and Measurements, 1976

In hospital radiation facilities of all types safety procedures for protecting radiation workers and the general public must be carefully planned and supervised and controlled by a qualified staff member To meet currently accepted standards for protection the potential exposures of workers and anyone else in or near a radiation area are evaluated and precautions taken to avert the possibility of exceeding or even approaching the permissible radiation levels Radiation workers employed in these facilities are informed about these safety procedures However there are various individuals involved in the delivery of medical care or in research who are not usually categorized as radiation workers Their duties may occasionally take them into areas where radiation or radioactive materials are present For want of a better term we may group many of these individuals under the title of allied health personnel Among these are physicians nurses technicians and others who are not classified as radiation workers but who occasionally have to deal with radioactive materials or with patients who have received radiopharmaceuticals In addition there are others not directly involved in the care of patients or research who may incidentally be exposed to radiation in the course of their work Such for instance are personnel in institutional shipping and receiving rooms and those engaged in hospital maintenance work Many of these people are concerned about radiation hazards and often suffer misconceptions regarding the subject They sometimes work without instruction or guidance Sometimes they seek out someone to ask questions about radiation and do receive from them careful answers to their questions Too often however they are simply told that everything is all right and that they have no cause to worry One purpose of this report is to note the types of problems encountered and try to give approaches to handling them The Radiation Protection Supervisor is usually aware of potential hazards within an institution but sometimes the problems are not evident even to him From Preface pages iii iv **Protection Against Radiations from Sealed Gamma Sources** National Committee on Radiation Protection and Measurements (U.S.), 1960 **Maintaining Radiation Protection Records** National Council on Radiation Protection and Measurements, 1992 **Ionizing Radiation Exposure of the Population of the United States** National Council on Radiation Protection and Measurements, 1987 **Instrumentation and Monitoring Methods for Radiation Protection** National Council on Radiation Protection and Measurements, 1978

Radiation Protection for Medical and Allied Health Personnel National Council on Radiation Protection and Measurements, 1989 *Medical X-ray, Electron Beam, and Gamma-ray Protection for Energies Up to 50 MeV* National

Council on Radiation Protection and Measurements,1989 **Operational Radiation Safety Program** National Council on Radiation Protection and Measurements,1978 *Basic Radiation Protection Criteria* National Council on Radiation Protection and Measurements,1971 **Recommendations on Limits for Exposure to Ionizing Radiation** National Council on Radiation Protection and Measurements,1987 **From "quantity of Radiation" and "dose" to "exposure" and "absorbed Dose"** Harold Orville Wyckoff,1980 *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

Operational Radiation Safety Training National Council on Radiation Protection and Measurements,2000
Radiation Protection in Educational Institutions National Council on Radiation Protection and Measurements. Scientific Committee 46-17 on Operational Health Physics,National Council on Radiation Protection and Measurements,2007

Selected Materials on Radiation Protection Criteria and Standards United States. Congress. Joint Committee on Atomic Energy,1960 **Exposure of the Population in the United States and Canada from Natural Background Radiation** National Council on Radiation Protection and Measurements,1987

Unveiling the Magic of Words: A Overview of "**Radiation Protection Measurement**"

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