

TECHNICAL REPORT

IEC TR 60788

Second edition
2004-02

Medical electrical equipment – Glossary of defined terms

iTeh STANDARD PREVIEW
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Reference number
IEC/TR 60788:2004(E)

Publication numbering

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Consolidated editions

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MEDICAL ELECTRICAL EQUIPMENT –
GLOSSARY OF DEFINED TERMS**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
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- 7) No liability shall attach to IEC or its directors, employees, servants or agents, including individual experts and members of its technical committees and IEC National Committees, for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

The main task of IEC technical committees is to prepare International Standards. However, a technical committee may propose the publication of a technical report when it has collected data of a different kind from that which is normally published as an International Standard, for example "state of the art".

IEC 60788, which is a technical report, has been prepared by IEC TC 62: Electrical EQUIPMENT in medical practice.

This second edition cancels and replaces the first edition of IEC 60788 published in 1984. This second edition constitutes a technical revision.

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
62/137/DTR	62/140/RVC

Full information on the voting for the approval of this technical report can be found in the report on voting indicated in the above table.

This publication does not follow the rules for structuring International Standards as given in Part 2 of the ISO/IEC Directives.

The committee has decided that the contents of this publication will remain unchanged until 2005. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

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INTRODUCTION

Purpose

- To provide an actual mirror of defined terms for all steps in the development of IEC standards under the scope of “MEDICAL ELECTRICAL EQUIPMENT”, IEC TC 62.
- To give guidance for harmonisation of the defined terms used in the IEC standards on “MEDICAL ELECTRICAL EQUIPMENT”.

Contents

- All DEFINED TERMS used in the General, Particular and Collateral Standards, recorded in the project files of the IEC for TC 62, SC 62A, 62B, 62C and 62D are mirrored.
- Recommendations to avoid existing redundancy are added as red text in the column “Definitions” in the table.

Maintenance

- An annual maintenance cycle for this TR is introduced. Closing date for the editorial input is the middle of December of a year.
- The annual editorial maintenance is done by the Secretaries of the IEC technical committee 62 and its subcommittees 62A, 62B, 62C and 62D.
- The compilation (addition of new terms and deletion of obsolete terms) is done by the Secretary of IEC TC 62.

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Targets

- Represent the state-of-the-art in the definitions
- Harmonize the language of the IEC publications
- Ease translations of the IEC publications
- Enable self-control by the experts working in projects for MEDICAL ELECTRICAL EQUIPMENT.

Coded reference of the DEFINED TERMS

- In all cases – as appropriate – the reference codes “IEV xxx-xx-xx” of the International Electronic Vocabulary (IEV) are added in the “Reference” column of the table.
- For DEFINED TERMS used in RADIOLOGY the reference codes “rm-xx-xx” remain unchanged as initiated by IEC 60788 Ed.1.
- For main fields other than RADIOLOGY, the coded references will be generated in future annual editions.

Replacement

This technical report replaces IEC 60788 Ed.1, *Medical radiology – Terminology*.

MEDICAL ELECTRICAL EQUIPMENT – GLOSSARY OF DEFINED TERMS

1 Scope

This Technical report comprises all defined terms used in the IEC standards and technical reports which

- fall under the scope of MEDICAL ELECTRICAL EQUIPMENT, and
- are on the list of publications as stated in May 2003.

2 Normative references

The documents referenced in 2.2 are forming the sources for the defined terms in this document.

2.1 General

The defined terms listed in this glossary are mirrored as presented in the standards and technical reports. Only the recommendations are added for further harmonisation of multiple defined terms.

The glossary is prepared to ease the use of the electronic version by two search functions:

- Search in the alphabetic order, and
- Search by the technical and physical chapters in case of ionising radiation (rm-xx-xx).

2.2 List of the IEC publications mirrored in this edition 2004

The list of IEC Standards below comprises the defined terms as used in the latest consolidated version, comprising the amendments as applicable.

1	60336	1993-07
2	60522	1999-02
3	60526	1978-01
4	60580	2000-01
5	60601-1/A1+ A2	1988-12/ 1991-11/ 1995-03
6	60601-1-2	2001-09
7	60601-1-3	1994-07
8	60601-1-4 Ed.1.1	2000-04
9	60601-2-1 /A1	1998-06/ 2002-05
10	60601-2-2	1998-09
11	60601-2-3/A1	1991-06/ 1998-09
12	60601-2-4	2002-08
13	60601-2-5	2000-07
14	60601-2-6	1984-01
15	60601-2-7	1998-02
16	60601-2-8 Ed.1.1	1999-04
17	60601-2-9	1996-10
18	60601-2-10/A1	1987-12/ 2001-09
19	60601-2-11	1997-08
20	60601-2-12	2001-10
21	60601-2-13	2003-05
22	60601-2-16	1998-02
23	60601-2-17/A1	1989-09/ 1996-03
24	60601-2-18/A1	1996-08/ 2000-07
25	60601-2-19/A1	1990-12/ 1996-10
26	60601-2-20/A1	1990-12/ 1996-10
27	60601-2-21/A1	1994-02/ 1996-10
28	60601-2-23	1999-12
29	60601-2-24	1998-02
30	60601-2-25/A1	1993-03/ 1999-05
31	60601-2-26	2002-11
32	60601-2-27	1994-04
33	60601-2-28	1993-04
34	60601-2-29,	1999-01
35	60601-2-30	1999-12
36	60601-2-31/A1	1994-10/ 1998-01
37	60601-2-32	1994-03
38	60601-2-33	2002-05
39	60601-2-34	2000-10
40	60601-2-35	1996-11
41	60601-2-36	1997-03
42	60601-2-37	2001-07
43	60601-2-38/A1	1996-10/ 1999-12
44	60601-2-39	1999-06
45	60601-2-40	1998-02
46	60601-2-41	2000-02
47	60601-2-43	2000-06
48	60601-2-44 Ed.2.1	2002-11
49	60601-2-45	2001-05
50	60601-2-46	1998-06

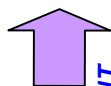
51	60601-2-47	2001-07
52	60601-2-49	2001-07
53	60601-2-50	2000-07
54	60601-2-51	2003-02
55	60601-2-55	To be published
56	60601-3-1	1996-08
57	60613	1989-05
58	60627	2001-08
59	60731/A1	1997-07/ 2002-06
60	60789	1992-02
61	60806	1984-01
62	60976/A1	1989-06/ 2000-07
63	60977/A1	1989-10/ 2000-04
64	61168	1993-12
65	61170	1993-12
66	61217 Ed.1.1	2002-03
67	61223-1	1993-07
68	61223-2-1	1993-07
69	61223-2-4	1994-03
70	61223-2-5	1994-03
71	61223-2-6	1994-04
72	61223-2-7	1999-09
73	61223-2-9	1999-09
74	61223-2-10	1999-09
75	61223-2-11	1999-09
76	61223-3-1	1999-03
77	61223-3-2	1996-11
78	61223-3-3	1996-11
79	61223-3-4	2000-03
80	61262-1	1994-07
81	61262-2	1994-07
82	61262-3	1994-07
83	61262-4	1994-07
84	61262-5	1994-08
85	61262-6	1994-07
86	61262-7	1995-09
87	61267	1994-10
88	61303	1994-10
89	61331-1	1994-10
90	61331-2	1994-10
91	61331-3	1998-11
92	61674/A1	1997-10/ 2002-06
93	61675-1	1998-02
94	61675-2	1998-01
95	61675-3	1998-02
96	61676	2002-09
97	61852	1998-04
98	61859	1997-05
99	61948-1, TR	2001-02
100	61948-2, TR	2001-02
101	62083	2000-11
102	62266, TR	2002-03
103	ISO 14971	2000-11

**Glossary of DEFINED TERMS used for MEDICAL ELECTRICAL EQUIPMENT –
Edition 2004**

Search...

*...via chapters
for imaging EQUIPMENT*

*...by alphabetic index
for all medical EQUIPMENT*



A B-C D E-F G-I K-M N-O P-Q R S T-V W-Z

Physics	General	Ionizing RADIATION	Interactions	Quantities, units and related concepts				
Generation and emission of ionizing RADIATION	General	HIGH VOLTAGE generators	X-RAY TUBE assemblies	PARTICLE ACCELERATORS	Beam therapy, RADIONUCLIDE SOURCES	Therapy EQUIPMENT with SEALED RADIOACTIVE SOURCES		Geometry of RADIATION BEAM
RADIOLOGICAL EQUIPMENT using ionizing RADIATION	General	EQUIPMENT for medical diagnostics	Images: Reception, transfer, recording	EQUIPMENT for RADIOTHERAPY	EQUIPMENT for nuclear medicine	Accessories	Operation of EQUIPMENT	
Medical RADIOLOGICAL techniques	General	Diagnosis using beams	Therapy using beams	Nuclear medicine				
Dosimetry	General	RADIATION DETECTORS	PHANTOMS					
Protection against ionizing RADIATION	General	Limits and factors	Groups of persons	Areas	Means of protection			
Testing of RADIOLOGICAL EQUIPMENT	General	Test EQUIPMENT	VERIFICATION of characteristics	Concepts in mathematics, metrics, statistics	Obligation & statement of compliance			
Technology	General	Docu-mentation	EQUIPMENT	Operation of EQUIPMENT	Persons			
Magnetic resonance EQUIPMENT	General							
ULTRASOUND EQUIPMENT	General							

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<p>PHYSICS General rm-10</p> <p>RADIATION TYPE</p>	<p>ABSORBED DOSE TO WATER ACTIVITY ADDITIONAL FILTRATION AIR KERMA AIR KERMA LENGTH AIR KERMA RATE ATTENUATION ATTENUATION COEFFICIENT ATTENUATION EQUIVALENT ATTENUATION RATIO AUTOMATIC CONTROL SYSTEM AUTOMATIC EXPOSURE CONTROL AUTOMATIC EXPOSURE RATE CONTROL AUTOMATIC INTENSITY CONTROL BUILD UP FACTOR DEPTH DOSE DOSE AREA PRODUCT DOSE AREA PRODUCT RATE DOSE EQUIVALENT DOSE MONITOR UNIT ELECTRON ENERGY FLUENCE RATE ENERGY RESOLUTION EXPOSURE EXPOSURE RATE HALF-VALUE LAYER INHERENT FILTRATION KERMA KERMA RATE LEAD EQUIVALENT NOMINAL ENERGY QUALITY EQUIVALENT FILTRATION RADIATION SPECTRUM RADIATION CONDITION RADIATION ENERGY RADIATION OUTPUT RADIATION QUALITY RADIATION QUANTITIES AND UNITS RADIATION QUANTITY</p>	<p>RADIOACTIVE HALF-LIFE RELATIVE SURFACE DOSE RESPONSE RESPONSE TIME SENSITIVITY PROFILE TENTH-VALUE LAYER TOTAL FILTRATION TRANSMISSION KERMA (TRANSMISSION KERMA RATE) TRANSMISSION OF PRIMARY RADIATION TRANSMISSION OF SCATTERED RADIATION TRANSMISSION OF TOTAL RADIATION TRANSMISSION RATIO UNATTENUATED BEAM UNATTENUATED BEAM QUALITY UNIFORMITY UNSCATTERED TRUE COINCIDENCE VARIATION VOXEL WATER KERMA</p>	<p>SEALED RADIOACTIVE SOURCE TARGET TARGET ANGLE TREATMENT ROOM X-RAY EQUIPMENT X-RAY GENERATOR X-RAY IMAGING ARRANGEMENT X-RAY TUBE HEAD</p>
<p>PHYSICS Ionizing Radiation rm-11</p> <p>DOSE PROFILE EXTRA-FOCAL RADIATION FOCAL RADIATION INTRINSIC ENERGY RESOLUTION INTRINSIC ENERGY SPECTRUM IONIZING RADIATION LEAKAGE RADIATION MAXIMUM ENERGY NEUTRON PHOTON PRIMARY RADIATION RADIATION RADIONUCLIDE RESIDUAL RADIATION SCATTERED RADIATION STRAY RADIATION</p>	<p>PHYSICS Interactions rm-12</p> <p>ABSORPTION BACK-SCATTERING BUILD UP FILTRATION INDUCED RADIOACTIVITY IRRADIATION RADIOACTIVITY TRANSMISSION</p>	<p>GENERATION & EMISSION OF IONIZING RADIATION General rm-20</p> <p>ACTUAL FOCAL SPOT BLOOMING VALUE CAPSULE EFFECTIVE FOCAL SPOT EXAMINATION ROOM FOCAL SPOT NOMINAL FOCAL SPOT VALUE RADIATION HEAD RADIATION SOURCE RADIATION SOURCE ASSEMBLY RADIOACTIVE SOURCE RADIOACTIVE SOURCE TRAIN RADIOLOGICAL EQUIPMENT RADIOLOGICAL INSTALLATION</p>	<p>GENERATION & EMISSION OF IONIZING RADIATION High Voltage generators rm-21</p> <p>CAPACITOR DISCHARGE HIGH-VOLTAGE GENERATOR CONSTANT POTENTIAL HIGH-VOLTAGE GENERATOR HIGH-VOLTAGE CABLE CONNECTION HIGH-VOLTAGE GENERATOR HIGH-VOLTAGE TRANSFORMER ASSEMBLY NOMINAL SHORTEST IRRADIATION TIME ONE-PEAK HIGH-VOLTAGE GENERATOR PRIMARY TIMER PRIMARY/SECONDARY (TIMER) COMBINATION RADIATION QUANTITY FOR NOMINAL SHORTEST IRRADIATION TIME SIX-PEAK HIGH-VOLTAGE GENERATOR TWO-PEAK HIGH VOLTAGE GENERATOR</p>
<p>PHYSICS Quantities, units and related concepts rm-13</p> <p>ABSORBED DOSE ABSORBED DOSE RATE ABSORBED DOSE RATE TO WATER</p>	<p>GENERATION & EMISSION OF IONIZING RADIATION X-Ray tube assemblies rm-22</p> <p>ANODE ANODE ANGLE CATHODE FOCAL TRACK</p>	<p>GENERATION & EMISSION OF IONIZING RADIATION X-Ray tube assemblies rm-22</p> <p>ANODE ANODE ANGLE CATHODE FOCAL TRACK</p>	<p>GENERATION & EMISSION OF IONIZING RADIATION X-Ray tube assemblies rm-22</p> <p>ANODE ANODE ANGLE CATHODE FOCAL TRACK</p>

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<p>MAXIMUM PEAK VOLTAGE MEAN PEAK VOLTAGE OPERATING CONDITIONS FOR NOMINAL X-RAY TUBE VOLTAGE PERMANENT FILTRATION PRACTICAL PEAK POTENTIAL (PPP) TUBE VOLTAGE (X-RAY) TWELVE-PEAK HIGH VOLTAGE GENERATOR X-RAY TUBE X-RAY TUBE ASSEMBLY X-RAY TUBE HOUSING</p>	<p>STORAGE CONTAINER RADIOLOGICAL EQUIPMENT USING IONIZING RADIATION General rm-30 ASSOCIATED EQUIPMENT GANTRY IRRADIATION SWITCH PATIENT SUPPORT QUALITY ASSURANCE QUALITY ASSURANCE PROGRAMME REFERENCE AIR KERMA</p>	<p>AXIAL SLICE WIDTH BEST FOCUS CENTRAL AXIS CENTRAL LINE INDICATION CENTRAL MAGNIFICATION CENTRE OF THE ENTRANCE FIELD CENTRE OF THE OUTPUT IMAGE COINCIDENCE DETECTION COINCIDENCE WINDOW CONTRAST IMPROVEMENT RATIO CONTRAST INDEX CONTRAST RATIO (ABBREVIATION CR) CONVERSION FACTOR CROSS GRID CT DETECTOR CT DOSIMETER DAS CONTRAST SENSITIVITY DAS VISUAL SPATIAL RESOLUTION DECENTRING OF A FOCUSED GRID DEFOCUSING OF A FOCUSED GRID DETECTIVE QUANTUM EFFICIENCY (ABBREVIATION DQE) DETECTOR ASSEMBLY DETECTOR FIELD OF VIEW (FOV) DIFFERENTIAL RADIAL IMAGE DISTORTION DIRECT RADIOGRAM DOUBLE EMULSION FILM DYNAMIC RANGE EDGE FILTER EFFECTIVE IMAGE RECEPTION AREA ELECTRO-OPTICAL X-RAY IMAGE INTENSIFIER ENTRANCE FIELD ENTRANCE FIELD SIZE ENTRANCE PLANE FLUORESCENT SCREEN FOCUSED GRID FOCUSING DISTANCE</p>	<p>GRID EXPOSURE FACTOR GRID RATIO GRID SELECTIVITY IMAGE DISTORTION IMAGE MATRIX IMAGE RECEPTOR PLANE IN X-RAY IMAGE INTENSIFIER TUBES INPUT SCREEN INTEGRAL IMAGE DISTORTION INTEGRAL MAGNIFICATION INTENSIFYING SCREEN INTERRUPTION LINEAR GRID LINEAR RANGE LINEARITY LINE PAIR RESOLUTION LOCAL RADIAL MAGNIFICATION LOW CONTRAST RESOLUTION LOW-FREQUENCY DROP (LFD) LUMINANCE DISTRIBUTION LUMINANCE NON-UNIFORMITY MAMMOGRAPHIC ANTI-SCATTER GRID MATRIX ELEMENT MEAN CT NUMBER MOVING GRID NET OPTICAL DENSITY NOMINAL ENTRANCE FIELD SIZE NOMINAL FOCAL SPOT VALUE NOMINAL IMAGE SIZE NOMINAL TOMOGRAPHIC SECTION THICKNESS NOMINAL TOMOGRAPHIC SLICE THICKNESS NON-SCREEN FILM OBJECT SLICE OBLIQUE CROSS GRID ORTHOGONAL CROSS GRID OUTPUT IMAGE OUTPUT SCREEN PARALLEL GRID</p>
<p>GENERATION & EMISSION OF IONIZING RADIATION PARTICLE ACCELERATORS rm-23 PARTICLE ACCELERATOR PRACTICAL RANGE QUANTITY INDEX</p>	<p>RADIOLOGICAL EQUIPMENT USING IONIZING RADIATION EQUIPMENT for medical diagnosis rm-31 CASSETTE CHANGER CT SCANNER EFFECTIVE LENGTH EFFECTIVE RANGE (OF INDICATED VALUES) FILM CHANGER INTERVENTIONAL X-RAY EQUIPMENT POSITRON EMISSION TOMOGRAPHY RADIOSCOPICALLY GUIDED INTERVENTIONAL PROCEDURE SERIAL CHANGER SPEED INDEX SPOTFILM DEVICE</p>	<p>CONVERSION FACTOR CROSS GRID CT DETECTOR CT DOSIMETER DAS CONTRAST SENSITIVITY DAS VISUAL SPATIAL RESOLUTION DECENTRING OF A FOCUSED GRID DEFOCUSING OF A FOCUSED GRID DETECTIVE QUANTUM EFFICIENCY (ABBREVIATION DQE) DETECTOR ASSEMBLY DETECTOR FIELD OF VIEW (FOV) DIFFERENTIAL RADIAL IMAGE DISTORTION DIRECT RADIOGRAM DOUBLE EMULSION FILM DYNAMIC RANGE EDGE FILTER EFFECTIVE IMAGE RECEPTION AREA ELECTRO-OPTICAL X-RAY IMAGE INTENSIFIER ENTRANCE FIELD ENTRANCE FIELD SIZE ENTRANCE PLANE FLUORESCENT SCREEN FOCUSED GRID FOCUSING DISTANCE</p>	<p>GRID EXPOSURE FACTOR GRID RATIO GRID SELECTIVITY IMAGE DISTORTION IMAGE MATRIX IMAGE RECEPTOR PLANE IN X-RAY IMAGE INTENSIFIER TUBES INPUT SCREEN INTEGRAL IMAGE DISTORTION INTEGRAL MAGNIFICATION INTENSIFYING SCREEN INTERRUPTION LINEAR GRID LINEAR RANGE LINEARITY LINE PAIR RESOLUTION LOCAL RADIAL MAGNIFICATION LOW CONTRAST RESOLUTION LOW-FREQUENCY DROP (LFD) LUMINANCE DISTRIBUTION LUMINANCE NON-UNIFORMITY MAMMOGRAPHIC ANTI-SCATTER GRID MATRIX ELEMENT MEAN CT NUMBER MOVING GRID NET OPTICAL DENSITY NOMINAL ENTRANCE FIELD SIZE NOMINAL FOCAL SPOT VALUE NOMINAL IMAGE SIZE NOMINAL TOMOGRAPHIC SECTION THICKNESS NOMINAL TOMOGRAPHIC SLICE THICKNESS NON-SCREEN FILM OBJECT SLICE OBLIQUE CROSS GRID ORTHOGONAL CROSS GRID OUTPUT IMAGE OUTPUT SCREEN PARALLEL GRID</p>
<p>GENERATION & EMISSION OF IONIZING RADIATION Beam therapy, RADIONUCLIDE sources rm-24 DELINEATED LIGHT FIELD DELINEATED RADIATION BEAM DELINEATED RADIATION FIELD DELINEATOR RADIONUCLIDE BEAM THERAPY EQUIPMENT SHUTTER SOURCE CARRIER</p>	<p>RADIOLOGICAL EQUIPMENT USING IONIZING RADIATION Reception, recording and transfer of images rm-32 ANTI-SCATTER GRID ARTEFACT AXIAL FIELD OF VIEW AXIAL POINT SPREAD FUNCTION AXIAL RESOLUTION</p>	<p>CONVERSION FACTOR CROSS GRID CT DETECTOR CT DOSIMETER DAS CONTRAST SENSITIVITY DAS VISUAL SPATIAL RESOLUTION DECENTRING OF A FOCUSED GRID DEFOCUSING OF A FOCUSED GRID DETECTIVE QUANTUM EFFICIENCY (ABBREVIATION DQE) DETECTOR ASSEMBLY DETECTOR FIELD OF VIEW (FOV) DIFFERENTIAL RADIAL IMAGE DISTORTION DIRECT RADIOGRAM DOUBLE EMULSION FILM DYNAMIC RANGE EDGE FILTER EFFECTIVE IMAGE RECEPTION AREA ELECTRO-OPTICAL X-RAY IMAGE INTENSIFIER ENTRANCE FIELD ENTRANCE FIELD SIZE ENTRANCE PLANE FLUORESCENT SCREEN FOCUSED GRID FOCUSING DISTANCE</p>	<p>GRID EXPOSURE FACTOR GRID RATIO GRID SELECTIVITY IMAGE DISTORTION IMAGE MATRIX IMAGE RECEPTOR PLANE IN X-RAY IMAGE INTENSIFIER TUBES INPUT SCREEN INTEGRAL IMAGE DISTORTION INTEGRAL MAGNIFICATION INTENSIFYING SCREEN INTERRUPTION LINEAR GRID LINEAR RANGE LINEARITY LINE PAIR RESOLUTION LOCAL RADIAL MAGNIFICATION LOW CONTRAST RESOLUTION LOW-FREQUENCY DROP (LFD) LUMINANCE DISTRIBUTION LUMINANCE NON-UNIFORMITY MAMMOGRAPHIC ANTI-SCATTER GRID MATRIX ELEMENT MEAN CT NUMBER MOVING GRID NET OPTICAL DENSITY NOMINAL ENTRANCE FIELD SIZE NOMINAL FOCAL SPOT VALUE NOMINAL IMAGE SIZE NOMINAL TOMOGRAPHIC SECTION THICKNESS NOMINAL TOMOGRAPHIC SLICE THICKNESS NON-SCREEN FILM OBJECT SLICE OBLIQUE CROSS GRID ORTHOGONAL CROSS GRID OUTPUT IMAGE OUTPUT SCREEN PARALLEL GRID</p>

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<p>PIXEL PROJECTION PROJECTION ANGLE QUANTUM ABSORPTION EFFICIENCY RADIOGRAPHIC CASSETTE RADIOGRAPHIC CASSETTE HOLDER RADIOGRAPHIC FILM RADIOLOGICAL IMAGE RADIOLOGICAL SCREEN REGION OF INTEREST (ROI) RESOLUTION OF THE DISPLAY SINOGRAM SPATIAL RESOLUTION SPOTFILM DEVICE STATIONARY GRID STRIP FREQUENCY STRIPS PER CENTIMETRE TAPERED GRID THREE-DIMENSIONAL RECONSTRUCTION TRIXEL TRUE CENTRAL LINE TWO-DIMENSIONAL RECONSTRUCTION USEFUL ENTRANCE FIELD SIZE VEILING GLARE INDEX (VGI) X-RAY IMAGE INTENSIFIER X-RAY IMAGE INTENSIFIER TUBE X-RAY IMAGE RECEPTOR X-RAY PATTERN XRII</p>	<p>EQUILIBRATION TIME EQUIPMENT MODEL / EQUIPMENT MODELLING EXIT SURFACE FIELD SIZE INTERRUPTION (OF IRRADIATION)/TO INTERRUPT (IRRADIATION) IRRADIATION TREATMENT PRESCRIPTION ISOCENTRIC EQUIPMENT ISOCENTRIC TREATMENT LINE SOURCE LINE SPREAD FUNCTION (LSF) LINEAR GRID LINEAR RANGE LINEARITY LIQUID SCINTILLATION COUNTER NORMAL TREATMENT DISTANCE (NTD) PATIENT ANATOMY MODEL / ANATOMY MODELLING PENETRATIVE QUALITY PRIMARY/SECONDARY DOSE MONITORING COMBINATION PRIMARY-SECONDARY DOSE MONITORING SYSTEM RADIOTHERAPY SIMULATOR RADIOTHERAPY TREATMENT PLANNING SYSTEM (RTPS) REDUNDANT DOSE MONITORING COMBINATION REDUNDANT DOSE MONITORING SYSTEMS REDUNDANT (TIMER) COMBINATION SECONDARY DOSE MONITORING SYSTEM TERMINATION (OF IRRADIATION) / TO TERMINATE IRRADIATION TRANSMISSION DETECTOR</p>	<p>TREATMENT CONTROL PANEL WEDGE FILTER ANGLE WEDGE FILTER FACTOR ZERO APPLICATOR</p> <p>RADIOLOGICAL EQUIPMENT USING IONIZING RADIATION Equipment for nuclear medicine rm-34 CENTRE OF ROTATION (COR) CERENKOV COUNTER COLLIMATOR (FOR GAMMA CAMERAS) COLLIMATOR AXIS COLLIMATOR BACK FACE COLLIMATOR FRONT FACE CONVERGING COLLIMATOR COUNT LOSS COUNT RATE COUNT RATE CHARACTERISTIC DETECTOR HEAD DETECTOR HEAD TILT DETECTOR LINE SPREAD FUNCTION DETECTOR SHIELD DIVERGING COLLIMATOR EMISSION COMPUTED TOMOGRAPHY (ECT) ENTRANCE FIELD OF A COLLIMATOR EQUIVALENT WIDTH (EW) EXIT FIELD OF A COLLIMATOR FIXED COORDINATE SYSTEM GAMMA CAMERA GAMMA CAMERA BASED WHOLEBODY IMAGING SYSTEM IN VIVO COUNTING SYSTEM LINE OF RESPONSE (LOR) LIQUID SCINTILLATION COUNTER MULTIPLE WINDOW SPATIAL REGISTRATION NON-UNIFORMITY OF RESPONSE NORMALIZED SLICE SENSITIVITY</p>	<p>NORMALIZED VOLUME SENSITIVITY OFFSET ORGAN COUNTING SYSTEM PARALLEL HOLE COLLIMATOR PHYSICAL POINT SPREAD FUNCTION PILE UP EFFECT PIN-HOLE COLLIMATOR POINT SOURCE POINT SPREAD FUNCTION (PSF) POSITIONING TIME POSITRON EMISSION TOMOGRAPHY (PET) PROJECTION BEAM PULSE AMPLITUDE ANALYZER PULSE WINDOW RADIAL RESOLUTION RADIATION DETECTOR ASSEMBLY RADIUS OF ROTATION RANDOM COINCIDENCE RECOVERY COEFFICIENT RESOLVING TIME SAMPLE CHANGER SCATTER FRACTION (SF) SCATTERED TRUE COINCIDENCE SENSITIVITY SINGLE GAMMA-RAY PHOTON PULSES SINGLES RATE SLICE SENSITIVITY SLICE THICKNESS SPATIAL NONLINEARITY SYSTEM AXIS SYSTEM NON-UNIFORMITY OF RESPONSE SYSTEM SENSITIVITY TANGENTIAL RESOLUTION TOTAL COINCIDENCES TRANSVERSE FIELD OF VIEW TRANSVERSE POINT SPREAD FUNCTION TRANSVERSE RESOLUTION</p>
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<p>TRANSVERSE TOMOGRAPHY TREATMENT FIELD TREATMENT PARAMETER TREATMENT PLAN/ TREATMENT PLANNING TRUE COINCIDENCE TRUE COUNT RATE VOLUME SENSITIVITY WELL-COUNTER WELL-TYPE DETECTOR WHOLE BODY COUNTER WHOLE BODY IMAGING DEVICE</p>	<p>APPARENT RESISTANCE OF SUPPLY MAINS CATHODE EMISSION CHARACTERISTIC CONTINUOUS MODE CONTROLLED AREA CT CONDITIONS OF OPERATION CT PITCH FACTOR CURRENT TIME PRODUCT DECREASING INPUT POWER RATING DEFAULT SETTING EQUIVALENT ANODE INPUT POWER FILAMENT CURRENT INDIRECT RADIOGRAM INITIAL X-RAY TUBE VOLTAGE INITIATION INTERMITTENT MODE IRRADIATION TIME LIMITED X-RAY TUBE VOLTAGE LOADING LOADING FACTOR LOADING STATE LOADING TIME MAXIMUM ANODE HEAT CONTENT MAXIMUM CONTINUOUS HEAT DISSIPATION MAXIMUM X-RAY TUBE ASSEMBLY HEAT CONTENT MODES OF OPERATION WITH CONTINUED DISPLAY NOMINAL ANODE INPUT POWER NOMINAL ELECTRIC POWER NOMINAL X-RAY TUBE VOLTAGE NON- ISOCENTRIC OBJECT PROGRAMMED CONTROL PERCENTAGE RIPPLE PERCENTAGE RIPPLE IN CONSTANT POTENTIAL HIGH-VOLTAGE GENERATORS PRUDENT USE STATEMENT</p>	<p>RADIOGRAPHIC RATING SERIAL LOAD RATING SINGLE LOAD RATING TREATMENT TIME X-RAY TUBE ASSEMBLY COOLING CURVE X-RAY TUBE ASSEMBLY HEAT CONTENT X-RAY TUBE ASSEMBLY HEATING CURVE X-RAY TUBE ASSEMBLY INPUT POWER X-RAY TUBE CURRENT X-RAY TUBE LOAD X-RAY TUBE VOLTAGE</p>	<p>ISOCENTRIC LIGHT DETECTOR LIGHT FIELD LIGHT FIELD -INDICATOR NARROW BEAM NARROW BEAM CONDITION OUTPUT BEAM AREA OUTPUT BEAM DIMENSIONS (NON-UNIFORM EXCITATION) PATIENT SURFACE PENUMBRA RADIATION SOURCE TO SKIN DISTANCE RADIATION APERTURE RADIATION BEAM RADIATION BEAM AXIS RADIATION FIELD RATED FIELD SIZE RATED RANGE REFERENCE AXIS REFERENCE DIRECTION REFERENCE PLANE SOURCE TO ENTRANCE PLANE DISTANCE (SED) TARGET VOLUME TREATMENT VOLUME USEFUL BEAM USEFUL FIELD VIRTUAL SOURCE</p>
<p>RADIOLOGICAL EQUIPMENT USING IONIZING RADIATION Accessories rm-35 ADDED FILTER BACK POINTER BEAM SCATTERING FILTER COMPRESSION DEVICE CORE BIOPSY GUN EFFECTIVE APERTURE FIELD FLATTENING FILTER FILTER FRONT POINTER IONIZING RADIATION SHIELD MAMMOGRAPHIC STEREOTACTIC DEVICE RADIOGRAM TISSUE EQUIVALENT MATERIAL WEDGE FILTER ZERO FILTER</p>	<p>IEC TR 60788:2004 http://standards.iteh.ai/catalog/standards/sist/777045a0-6e72-4bcb-8a32-b8feda91d9/iec-tr-60788-2004</p>	<p>RADIOLOGICAL EQUIPMENT USING IONIZING RADIATION Geometry of RADIATION BEAM rm-37 BEAM APPLICATOR BEAM LIMITING DEVICE BEAM LIMITING SYSTEM BOUNDARY AND DIMENSIONS OF THE X-RAY FIELD BROAD BEAM BROAD BEAM CONDITION DETECTOR HEAD TILT DIAPHRAGM ENTRANCE SURFACE FOCAL SPOT TO IMAGE RECEPTOR DISTANCE FOCAL SPOT TO SKIN DISTANCE GEOMETRICAL FIELD SIZE GEOMETRICAL RADIATION FIELD IMAGE PLANE IMAGE RECEPTION AREA IMAGE RECEPTION PLANE INPUT APERTURE IRRADIATION FIELD SIZE ISOCENTRE</p>	<p>MEDICAL RADIOLOGICAL TECHNIQUES General rm-40 MEDICAL DIAGNOSTIC RADIOLOGY MEDICAL RADIOLOGICAL EXAMINATION MEDICAL RADIOLOGY NUCLEAR MEDICINE RADIOLOGICAL RADIOLOGY</p>
<p>RADIOLOGICAL EQUIPMENT USING IONIZING RADIATION Operation of EQUIPMENT rm-36 ANODE COOLING CURVE ANODE HEAT CONTENT ANODE HEATING CURVE ANODE INPUT POWER ANODE SPEED</p>			

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<p>RADIOTHERAPY TREATMENT</p> <p>MEDICAL RADIOLOGICAL TECHNIQUES</p> <p>Diagnosis using beams rm-41</p> <p>CINERADIOGRAPHY</p> <p>COMPUTED TOMOGRAPHY</p> <p>DENTAL PANORAMIC RADIOGRAPHY</p> <p>DIRECT RADIOGRAPHY</p> <p>DIRECT RADIOSCOPY</p> <p>INDIRECT RADIOGRAPHY</p> <p>INDIRECT RADIOSCOPY</p> <p>RADIOGRAPHY</p> <p>RADIOSCOPY</p> <p>RADIOSCOPICALLY GUIDED INVASIVE PROCEDURE</p> <p>RECONSTRUCTIVE TOMOGRAPHY</p> <p>SERIAL RADIOGRAPHY</p> <p>SINGLE PHOTON EMISSION COMPUTED TOMOGRAPHY (SPECT)</p> <p>TOMOGRAPHIC PLANE</p> <p>TOMOGRAPHIC SECTION</p> <p>TOMOGRAPHIC SECTION THICKNESS</p> <p>TOMOGRAPHIC VOLUME</p> <p>TOMOGRAPHY</p> <p>TOTAL FIELD OF VIEW</p>	<p>INTRACAVITARY RADIOTHERAPY</p> <p>MOVING BEAM RADIOTHERAPY</p> <p>STATIONARY RADIOTHERAPY</p> <p>SUPERFICIAL RADIOTHERAPY</p> <p>TELERADIOGRAPHY</p> <p>X-RAY THERAPY</p> <p>MEDICAL RADIOLOGICAL TECHNIQUES</p> <p>Nuclear medicine rm-43</p> <p>DOSIMETRY</p> <p>General rm-50</p> <p>DOSEMETER</p> <p>DOSEMETER (PATIENT CONTACT)</p> <p>DOSIMETER (DIAGNOSTIC)</p> <p>DOSIMETER (RADIOTHERAPY)</p> <p>RADIATION METER</p> <p>DOSIMETRY</p> <p>RADIATION DETECTORS rm-51</p> <p>CHAMBER (IONIZATION)</p> <p>CHAMBER ASSEMBLY</p> <p>DOSE AREA PRODUCT METER</p> <p>EFFECTIVE RANGE</p> <p>EXPOSURE METER</p> <p>IONIZATION CHAMBER</p> <p>LEAKAGE CURRENT (CHAMBER ASSEMBLY)</p> <p>RADIATION DETECTOR</p> <p>SENSITIVE VOLUME</p> <p>TRANSMISSION CHAMBER</p> <p>DOSIMETRY</p> <p>PHANTOMS rm-52</p> <p>PHANTOM</p>	<p>PROTECTION AGAINST IONIZING RADIATION</p> <p>General rm-60</p> <p>RADIATION PROTECTION</p> <p>RADIOLOGICAL PROTECTION</p> <p>PROTECTION AGAINST IONIZING RADIATION</p> <p>Limits and factors rm-61</p> <p>DOSE EQUIVALENT LIMIT</p> <p>WORKLOAD</p> <p>PROTECTION AGAINST IONIZING RADIATION</p> <p>Groups of persons rm-62</p> <p>PROTECTION AGAINST IONIZING RADIATION</p> <p>Areas rm-63</p> <p>PROTECTED AREA</p> <p>SIGNIFICANT ZONE OF OCCUPANCY</p> <p>PROTECTION AGAINST IONIZING RADIATION</p> <p>Means of protection rm-64</p> <p>OVARY SHIELD</p> <p>PROTECTIVE BARRIER</p> <p>PROTECTIVE DEVICE</p> <p>PROTECTIVE GLASS PLATE</p> <p>PROTECTIVE GLASS PLATE TYPE SC</p> <p>PROTECTIVE GLASS PLATE TYPE VI</p> <p>PROTECTIVE GONAD APRON</p> <p>PROTECTIVE MITTEN</p> <p>PRIMARY PROTECTIVE SHIELDING</p> <p>PROTECTIVE SHIELDING</p> <p>SCROTUM SHIELD</p> <p>SHADOW SHIELD</p> <p>STRUCTURAL SHIELDING</p>	<p>TESTING OF RADIOLOGICAL EQUIPMENT</p> <p>General rm-70</p> <p>ACCEPTANCE TEST</p> <p>CONSTANCY TEST</p> <p>FILM ILLUMINATOR</p> <p>FILM PROCESSOR</p> <p>HYDRAULIC TEST PRESSURE</p> <p>INSTRUMENT PARAMETER</p> <p>INVASIVE MEASUREMENT</p> <p>QUALITY ASSURANCE</p> <p>QUALITY ASSURANCE PROGRAMME</p> <p>QUALITY CONTROL</p> <p>REFERENCE CONDITIONS</p> <p>REFERENCE DATA</p> <p>REFERENCE INDICATED VALUE</p> <p>REFERENCE SCALE READING</p> <p>REFERENCE VOLUME</p> <p>SITE TEST</p> <p>SPEED INDEX</p> <p>STANDARD TEST CONDITIONS</p> <p>STATUS TEST</p> <p>TYPE TEST</p> <p>VALIDATION</p> <p>VERIFICATION</p> <p>TESTING OF RADIOLOGICAL EQUIPMENT</p> <p>Test EQUIPMENT rm-71</p> <p>AIR-DENSITY CHARACTERISTIC</p> <p>BASE DEPTH</p> <p>CALIBRATION FACTOR</p> <p>CERTIFIED RADIOACTIVE STANDARD</p> <p>SOURCE</p> <p>COMPOSITION OF REFERENCE MATERIALS</p> <p>EFFECTIVE RADIATED POWER (ERP)</p> <p>FIELD-CLASS DOSIMETER</p> <p>HALF VALUE LAYER TEST DEVICE</p> <p>INITIAL CONSTANCY TEST FILM</p>
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<p>INITIAL REFERENCE FILM INSTRUMENT ACCURACY IONIZATION CHAMBER TEST SOURCE MEASURING ASSEMBLY MTF ANALYZER MULTI-DETECTOR COUNTER NON-INVASIVE MEASUREMENT NON-IRRADIATED CONSTANCY TEST FILM PINHOLE CAMERA RADIOACTIVE IMPURITY RADIOACTIVE STANDARD SOURCE RADIONUCLIDE CALIBRATOR RADIONUCLIDE FACTOR RATED LENGTH (OF USE) REFERENCE POINT (OF A CHAMBER) REFERENCE POINT (OF A RADIATION DETECTOR) REFERENCE-CLASS DOSIMETER SAMPLE VOLUME CHARACTERISTIC SLIT CAMERA STANDARD TEST VALUES STAR PATTERN CAMERA TEST DEVICE TRACEABLE RADIOACTIVE STANDARD SOURCE UNIFORM CONSTANCY TEST FILM</p>	<p>INTRINSIC SPATIAL NON-LINEARITY IMMUNITY LEVEL IMMUNITY TEST LEVEL MINIMUM EFFECTIVE RANGE MINIMUM RATED RANGE ROUTINE TEST SPATIAL RESOLUTION (IN CT EQUIPMENT) SPECIFIED ENERGY RESPONSE STABILITY CHECK DEVICE STABILIZATION TIME STANDARD STANDARD MEASUREMENT DEPTH STAR PATTERN RESOLUTION LIMIT SYSTEM LINEARITY ZERO DRIFT (MEASURING ASSEMBLY) ZERO SHIFT (MEASURING ASSEMBLY)</p>	<p>HAZARD ANALYSIS INDICATED VALUE INTERVENTIONAL REFERENCE POINT INTRINSIC ERROR ISOPLANATIC REGION LIMITS OF VARIATION LINE SOURCE LINE SPREAD FUNCTION (LSF) MAXIMUM TOLERABLE RISK MEASURED VALUE MODULATION TRANSFER FUNCTION (MTF) NOISE NOMINAL (VALUE) NON-LINEARITY OPTICAL TRANSFER FUNCTION (OTF) OVERALL UNCERTAINTY RANDOM UNCERTAINTY REFERENCE VALUE RELATIVE INTRINSIC ERROR RESIDUAL RISK RISK SAFETY SAFETY FACTOR SAFETY HAZARD SAFETY INTEGRITY SCALE READING SEVERITY SINGLE FAULT CONDITION TRUE VALUE</p>	<p>TECHNOLOGY General rm-80 DESIGNED FOR DEVELOPMENT LIFE-CYCLE EMERGENCY TROLLEY EQUIPMENT HAND-HELD EQUIPMENT HARD COPY CAMERA HIGH VOLTAGE IEC 60601 TEST LEVEL IMAGE DISPLAY DEVICE INFORMATION TECHNOLOGY EQUIPMENT (ITE) LIFE SUPPORTING EQUIPMENT OR SYSTEM LOW VOLTAGE MEDICAL ELECTRICAL EQUIPMENT (REFERRED TO AS EQUIPMENT) MEDICAL ELECTRICAL SYSTEM MOBILE EQUIPMENT MODEL OR TYPE REFERENCE NATIONAL STANDARD PASSWORD PERFORMANCE CHARACTERISTIC PROGRAMMABLE ELECTRICAL MEDICAL SYSTEM (PEMS) PROGRAMMABLE ELECTRONIC SUBSYSTEM (PESS) PROGRAMMABLE ELECTRONIC SYSTEM (PES) PROPERLY INSTALLED PUBLIC MAINS NETWORKS RATED (VALUE) RADIO FREQUENCY (RF) TOOL VOLTAGE RIPPLE</p>
<p>TESTING OF RADIOLOGICAL EQUIPMENT Concepts in mathematics, metrics and statistics rm-73 BASELINE VALUE COEFFICIENT OF VARIATION COMBINED STANDARD UNCERTAINTY COMPUTED TOMOGRAPHY DOSE INDEX (CTDI) COMPUTED TOMOGRAPHY DOSE INDEX 100 (CTDI100) COMPUTED TOMOGRAPHY NUMBER (CT NUMBER) CONVENTIONAL TRUE VALUE COORDINATE SYSTEM OF PROJECTION CORRECTION FACTOR ERROR OF MEASUREMENT EXPANDED UNCERTAINTY FULLWIDTH AT HALF MAXIMUM (FWHM) FULL WIDTH AT TENTH MAXIMUM (FWTM)</p>	<p>TESTING OF RADIOLOGICAL EQUIPMENT Obligation and statement of compliance rm-74 COMPLIANCE LEVEL OF IMMUNITY COMPLIANCE LEVEL SPECIFIC SPECIFIED</p>	<p>TESTING OF RADIOLOGICAL EQUIPMENT Obligation and statement of compliance rm-74 COMPLIANCE LEVEL OF IMMUNITY COMPLIANCE LEVEL SPECIFIC SPECIFIED</p>	
<p>TESTING OF RADIOLOGICAL EQUIPMENT VERIFICATION of characteristics rm-72 ENERGY CALIBRATION FILM BASE PLUS FOG DENSITY FOCAL SPOT PINHOLE RADIOGRAM FOCAL SPOT SLIT RADIOGRAM FOCAL SPOT STAR RADIOGRAM INTRINSIC LINE SPREAD FUNCTION INTRINSIC NON-UNIFORMITY OF RESPONSE</p>			