

Guideline & Reports

医学物理学会教育委員会資料

report	title	year	keyword 1	keyword 2
AAPM				
TG260	Considerations for the Use of Handheld Image Viewers: The Report of AAPM Task Group 260	2018	handheld viewers	
TRS-483	Dosimetry of small static fields used in external photon beam radiotherapy: Summary of TRS-483, the IAEA-	2018	small fields	dosimetry
TG263	Standardizing Nomenclatures in Radiation Oncology	2018	nomenclatures	oncology
TG232	Current State of Practice Regarding Digital Radiography Exposure Indicators and Deviation Indices: Report of	2018	radiography	exposure indicators
TG218	Tolerance Limits and Methodologies for IMRT Measurement-Based Verification QA: Recommendations of AAPM	2018	IMRT	tolerance limits
TG180	Image Guidance Doses Delivered During Radiotherapy: Quantification, Management, and Reduction	2018	image doses	radiotherapy
TG113	Guidance for the Physics Aspects of Clinical Trials	2018	clinical trials	
WGDRD	Development and testing of a database of NIH research funding of AAPM members: A report from the AAPM	2017	database	NIH research
TG268	RECORDS: improved Reporting of monte Carlo Radiation transport Studies: Report of the AAPM Research	2017	monte carlo	
TG211	Classification and evaluation strategies of auto-segmentation approaches for PET	2017	PET	auto-segmentation
TG162	Software for Planar Image Quality Metrology	2017	2D Image	quality metrology
TG158	Measurement and calculation of doses outside the treated volume from external-beam radiation therapy	2017	dose	outside the treated
TG132	Use of image registration and fusion algorithms and techniques in radiotherapy	2017	image registration	fusion
UN 25	Joint recommendations by the AAPM and GEC-ESTRO; Supplement 2 for the 2004 update of the AAPM Task	2017	brachytherapy	
TG100	Application of risk analysis methods to radiation therapy quality management	2016	risk analysis	
TG196	Technical Note: Gray tracking in medical color displays—A report of Task Group 196	2016	displays	
TG175	Acceptance Testing and Quality Control of Dental Imaging Equipment	2016	dental	QC
TG167	Guidelines by the AAPM and GEC-ESTRO on the use of innovative brachytherapy devices and applications	2016	brachytherapy	
TG195	Monte Carlo Reference Data Sets for Imaging Research	2015	monte carlo	imaging research
TG190	Accuracy and calibration of integrated radiation output indicators in diagnostic radiology	2015	diagnostic radiology	radiation output
TG151	Ongoing Quality Control in Digital Radiography	2015	DR	QC
TG118	Parallel Imaging in MRI: Technology, Applications, and Quality Control	2015	MRI	QC
TG071	Monitor unit calculations for external photon and electron beams	2014	MU	
TG223	Radiation dosimetry in digital breast tomosynthesis	2014	tomosynthesis	
TG220	Use of Water Equivalent Diameter for Calculating Patient Size and Size-Specific Dose Estimates (SSDE) in C	2014	CT	
TG192	AAPM and GEC-ESTRO guidelines for image-guided robotic brachytherapy	2014	brachytherapy	robotic
TG136	Potential Hazard Due to Induced Radioactivity Secondary to Radiotherapy	2014	radioactivity	radiotherapy
TG176	Dosimetric effects caused by couch tops and immobilization devices	2014	couch tops	dosimetry
255	An introduction to molecular imaging in radiation oncology: A report by the AAPM Working Group on Molecu	2013	molecular imaging	oncology
249	Essentials and Guidelines for Clinical Medical Physics Residency Training Programs	2013	residency training	
TG217	Radiation Dose from Airport Scanners	2013	airport scanners	

TG140	Absolute calibration of optical power for PDT	2013	PDT	calibration
229	Dose Calculation for Photon-Emitting Brachytherapy Sources with Average Energy Higher than 50 keV	2012	photon-emitting bra	calibration
TG186	model-based dose calculation methods in brachytherapy beyond the TG-43 formalism: Current status and rec	2012	brachytherapy	model-based
TG181	The Selection, Use, Calibration, and Quality Assurance of Radionuclide Calibrators Used in Nuclear Medicin	2012	nuclear medicine	calibration
TG179	Quality assurance for image-guided radiation therapy utilizing CT-based technologies	2012	IGRT	QA
TG166	The Use and QA of Biologically Related Models for Treatment Planning	2012	biological model pla	QA
TG147	Quality assurance for nonradiographic radiotherapy localization and positioning systems	2012	nonradiographic pos	QA
TG129	Dosimetry of 125I and 103Pd COMS eye plaques for intraocular tumors	2012	eye plaques	dosimetry
TG125	Functionality and Operation of Fluoroscopic Automatic Brightness Control/Automatic Dose Rate Control Log	2012	interventional angic	fluoroscopy
TG124	A Guide for Establishing a Credentialing and Privileging Program for Users of Fluoroscopic Equipment in He	2012	fluoroscopy	healthcare
TG204	Size-Specific Dose Estimates (SSDE) in Pediatric and Adult Body CT Examinations	2011	CT	SSDE
197S	The Essential Medical Physics Didactic Elements for Physicists Entering the Profession through an Alternati	2011	didactic	physicists
TG154	Quality assurance of U.S.-guided external beam radiotherapy for prostate cancer	2011	U.S.-guide	prostate
TG144	Recommendations of the American Association of Physicists in Medicine on dosimetry, imaging, and quality ε	2011	90Y	liver brachytherapy
TG135	Quality assurance for robotic radiosurgery	2011	robotic radiosurgery	QA
TG120	Dosimetry tools and techniques for IMRT	2011	IMRT	QA
TG114	Verification of monitor unit calculations for non-IMRT clinical radiotherapy	2011	MU	non-IMRT
TG160	Radiation Safety Officer Qualifications for Medical Facilities	2010	radiation safety	facilities
TG159	Recommended ethics curriculum for medical physics graduate and residency programs	2010	curriculum	medical physics
TG148	QA for helical tomotherapy	2010	tomotherapy	QA
TG121	Off-label use of medical products in radiation therapy	2010	labeling regarding	products
TG111	Comprehensive Methodology for the Evaluation of Radiation Dose in X-Ray Computed Tomography	2010	CT	dose
TG101	Stereotactic body radiation therapy	2010	SBRT	
TG001	Acceptance Testing and Quality Assurance Procedures for Magnetic Resonance Imaging Facilities	2010	MR	QA
TG201	Information technology resource management in radiation oncology	2009	information technol	oncology
197	Academic Program Recommendations for Graduate Degrees in Medical Physics	2009	academic program	medical physics
152	The 2007 AAPM response to the CRCPD request for recommendations for the CRCPD's model regulations for	2009	electronic brachytherapy	
TG142	Quality assurance of medical accelerators	2009	QA	accelerator
TG137	AAPM recommendations on dose prescription and reporting methods for permanent interstitial brachytherap	2009	interstitial brachytherapy	
TG119	IMRT commissioning: Multiple institution planning and dosimetry comparisons	2009	IMRT	commissioning
TG116	An Exposure Indicator for Digital Radiography	2009	exposure Indicator	digital radiography
TG109	Code of Ethics for the American Association of Physicists in Medicine	2009	code	ethics
TG104	The Role of In-Room kV X-Ray Imaging for Patient Setup and Target Localization	2009	In-room kV image	
TG070	Recommendations for clinical electron beam dosimetry: Supplement to the recommendations of Task Group 2	2009	electron	dosimetry
TG074	In-air output ratio, Sc, for megavoltage photon beams	2009	in-air output ratio	
TG133	Alternative Clinical Medical Physics Training Pathways for Medical Physicists	2008	medical physicists	training
TG128	Quality assurance tests for prostate brachytherapy ultrasound systems	2008	ultrasound guide	prostate brachyther

TG106	Accelerator beam data commissioning equipment and procedures	2008	commissioning	accelerator
098	Third-party brachytherapy source calibrations and physicist responsibilities	2008	brachytherapy	calibrations
TG023	The Measurement, Reporting, and Management of Radiation Dose in CT	2008	CT	ALARA
TG069	Radiographic film for megavoltage beam dosimetry	2007	radiographic film	dosimetry
TG076	The Management of Respiratory Motion in Radiation Oncology	2006	respiratory motion	
TG068	Intracranial stereotactic positioning systems	2005	intracranial stereotactic positioning	
TG065	Tissue Inhomogeneity Corrections for Megavoltage Photon Beams	2004	tissue inhomogeneity	
TG066	Quality assurance for computed-tomography simulators and the computed-tomography-simulation process	2003	CTs	QA
082	Guidance document on delivery, treatment planning, and clinical implementation of IMRT	2003	IMRT	

ESTRO Physics Booklets

No. 1	Methods for in vivo Dosimetry in external Radiotherapy	RT	in vivo Dosimetry
No. 2	Recommendations for a Quality Assurance Programme in External Radiotherapy	RT	QA
No. 3	Physics for Clinical Radiotherapy	RT	physics
No. 4	Practical Guidelines for the Implementation of Quality System in Radiotherapy	RT	quality system
No. 5	Practical Guidelines for the Implementation of in vivo dosimetry with diodes in external radiotherapy with photon beams	in vivo Dosimetry	diodes
No. 6	Monitor Unit Calculation For High Energy Photon Beams, Practical Examples	RT	MU
No. 7	Quality Assurance of Treatment Planning Systems – Practical Examples for non-IMRT Photon Beams	TPS	QA
No. 8	A Practical Guide to Quality Control of Brachytherapy Equipment	brachytherapy	QA
No. 9	Guidelines for the verification of IMRT	IMRT	verification
No. 10	Independent Dose Calculations Concepts and Models	RT	independent calculations

IAEA

Human Health Report	Medical Physics Staffing Needs in Diagnostic Imaging and Radionuclide Therapy: An Activity Based Approach	2018	staffing	medical physics
Non-serial Publication	Radiotherapy in Cancer Care: Facing the Global Challenge	2017	radiotherapy	global
Human Health Series	Assessment of Zinc Metabolism in Humans Using Stable Zinc Isotope Techniques	2018	metabolism	Zinc Isotope
Radioisotopes and Radionuclides	Accelerator-based Alternatives to Non-HEU Production of Technetium-99m	2017	production and separation	Technetium-99m
Human Health Series	Accuracy Requirements and Uncertainties in Radiotherapy	2016	uncertainties	radiotherapy
Human Health Series	Atlas of Skeletal SPECT/CT Clinical Images	2016	atlas	SPECT
Human Health Series	Clinical PET/CT Atlas: A Casebook of Imaging in Oncology	2015	casebook	PET
TECDOC Series No. 1	Commissioning of Radiotherapy Treatment Planning Systems: Testing for Typical External Beam Treatment	2016	commissioning	TPS
Radioisotopes and Radionuclides	Cyclotron Produced Radionuclides: Emerging Positron Emitters for Medical Applications: ⁶⁴ Cu and ¹²⁴ I	2016	production and application	⁶⁴ Cu and ¹²⁴ I
Human Health Report	The Transition from 2-D Brachytherapy to 3-D High Dose Rate Brachytherapy	2015	brachytherapy	3-D
	Diagnostic Radiology Physics A Handbook for Teachers and Students	2014	diagnostic	teachers and students

Human Health Series Roles and Responsibilities, and Education and Training Requirements for Clinically Qualified Medical Physicists	2015	shortfall	medical physicists
Human Health Series Dosimetry in Diagnostic Radiology for Paediatric Patients	2014	dosimetry	paediatric
Technical Reports Series Dosimetry of Small Static Fields Used in External Beam Radiotherapy An International Code of Practice for Dosimetry	2016	small fields	dosimetry
TECDOC Series No. 1 Good Practice for Introducing Radiopharmaceuticals for Clinical Use	2015	radiopharmaceuticals	expedite the introduction
Human Health Series Guided Intraoperative Scintigraphic Tumour Targeting (GOSTT) Implementing Advanced Hybrid Molecular Imaging	2014	radiopharmaceuticals	sentinel lymph node
Human Health Series Implementation of High Dose Rate Brachytherapy in Limited Resource Settings	2015	brachytherapy	developing countries
Human Health Series Nuclear Cardiology: Guidance on the Implementation of SPECT Myocardial Perfusion Imaging	2016	nuclear cardiology	
Nuclear Medicine Physics A Handbook for Teachers and Students	2015	nuclear medicine	teachers and students
Human Health Series PET/CT Atlas on Quality Control and Image Artefacts	2014	PET/CT	image artefacts
Human Health Report Radiotherapy Facilities: Master Planning and Concept Design Considerations	2014	radiotherapy facilities	master planning
Human Health Series Planning National Radiotherapy Services: A Practical Tool	2015	national radiotherapy services	
Human Health Series Quality Management Audits in Nuclear Medicine Practices Second Edition	2015	nuclear medicine	quality management
Human Health Report Quantitative Nuclear Medicine Imaging: Concepts, Requirements and Methods	2014	nuclear medicine imaging	
Human Health Series Radiolabelled Autologous Cells: Methods and Standardization for Clinical Use	2015	radiolabelled	autologous cells
Radioisotopes and Radiopharmaceuticals for Sentinel Lymph Node Detection: Status and Trends	2015	sentinel lymph node	radiopharmaceuticals
Human Health Report Radiotherapy Facilities: Master Planning and Concept Design Considerations	2015	radiotherapy	master planning
Radiotherapy in Cancer Care: Facing the Global Challenge	2015	radiotherapy	global
Human Health Series Roles and Responsibilities, and Education and Training Requirements for Clinically Qualified Medical Physicists	2015	medical physicists	education and training
Clinical, Medical Physics Setting Up a Radiotherapy Programme	2015	radiotherapy	programme
Human Health Series Stable Isotope Technique to Assess Intake of Human Milk in Breastfed Infants	2015	isotope technique	nutrition
Human Health Report Staffing in Radiotherapy: An Activity Based Approach	2015	radiotherapy	staffing
Human Health Report Strategies for the Management of Localized Prostate Cancer: A Guide for Radiation Oncologists	2015	prostate cancer	strategies
TECDOC Series No. 1 The Information System on Occupational Exposure in Medicine, Industry and Research (ISEMIR): Interventional Cardiology	2015	cardiology	protection
Human Health Report The Transition from 2-D Brachytherapy to 3-D High Dose Rate Brachytherapy	2015	brachytherapy	3-D
Human Health Series Worldwide Implementation of Digital Imaging in Radiology	2015	digital imaging	
Radioisotopes and Radiopharmaceuticals for Radionuclide Therapy	2015	radionuclide	therapy
Services Series 21-upd Guidance for States Implementing Comprehensive Safeguards Agreements and Additional Protocols (IAEA Safeguards)	2014	safeguards	

ICRU

ICRU Report 91	Prescribing, Recording, and Reporting of Stereotactic Treatments with Small Photon Beams	2018	stereotactic treatments
ICRU Report 90	Key Data For Ionizing-Radiation Dosimetry: Measurement Standards And Applications	2017	dosimetry Key Data
ICRU Report 89	Prescribing, Recording, and Reporting Brachytherapy for Cancer of the Cervix	2016	brachytherapy
ICRU Report 88	Measurement and Reporting of Radon Exposures	2013	radon exposures
ICRU Report 87	Radiation Dosimetry and Image Quality Assessment in Computed Tomography	2012	CT QA
ICRU Report 85a-Rev	Fundamental Quantities and Units for Ionizing Radiation	2011	quantities, units

ICRU Report 86	Quantification and Reporting of Low-Dose and Other Heterogeneous Exposures	2011	quantification	absorbed dose
----------------	--	------	----------------	---------------

ICRP

2017 Proceedings	Proceedings of the Fourth International Symposium on the System of Radiological Protection	2018	protection	symposium
Publication 139	Occupational Radiological Protection in Interventional Procedures	2018	protection	Interventional
Publication 138	Ethical Foundations of the System of Radiological Protection	2018	radiological protecti	ethics
Publication 137	Occupational Intakes of Radionuclides: Part 3	2017	occupational intakes	
Publication 136	Dose Coefficients for Non-human Biota Environmentally Exposed to Radiation	2017	dose coefficients	non-human
Publication 135	Diagnostic Reference Levels in Medical Imaging	2016	reference levels	medical imaging
Fukushima Proceeding	Proceedings of the International Workshop on the Fukushima Dialogue Initiative	2016	Fukushima	workshop
Publication 134	Occupational Intakes of Radionuclides: Part 2	2016	occupational intakes	
Publication 133	The ICRP Computational Framework for Internal Dose Assessment for Reference Adults: Specific Absorbed I	2016	internal exposures	radionuclides
Publication 132	Radiological Protection from Cosmic Radiation in Aviation	2016	protection	cosmic radiation
Publication 131	Stem Cell Biology with Respect to Carcinogenesis Aspects of Radiological Protection	2015	protection	stem cells
Publication 130	Occupational Intakes of Radionuclides: Part 1	2015	occupational intakes	
Publication 129	Radiological Protection in Cone Beam Computed Tomography (CBCT)	2015	radiological protecti	CBCT
Publication 128	Radiation Dose to Patients from Radiopharmaceuticals: A Compendium of Current Information Related to Fr	2015	radiation dose to patients	
Publication 127	Radiological Protection in Ion Beam Radiotherapy	2014	radiological protecti	radiotherapy
Publication 126	Radiological Protection against Radon Exposure	2014	radiological protecti	radon exposure
Publication 125	Radiological Protection in Security Screening	2014	protection	security screening
Publication 124	Protection of the Environment under Different Exposure Situations	2014	protection	

NCRP

Report No. 175	Decision Making for Late-Phase Recovery from Major Nuclear or Radiological Incidents	2014	recovery	incidents
Report No. 174	Preconception and Prenatal Radiation Exposure: Health Effects and Protective Guidance	2013	health effects	