

Radiation Dosimetry and Treatment Planning Subcommittee

REPORT to TPC

04/12/12

Dimitris Mihailidis-Chair

Spring Meeting, 2012
RPC Houston

The SC has 9 Members

Radiation Dosimetry and Treatment Planning SC - ACTION ITEMS

Task Group	Title	Parent WG/SC	Chair	Date approved	Sunset date	Status	Action items
TG155	Small field dosimetry and non-equilibrium condition dosimetry	WGRD/RDSC	I. Das	8/9/07	12/31/08	Active	Extension till 12/31/12
TG157	Commissioning of beam models in Monte Carlo-based clinical treatment planning	WGTP/RDSC	C. Ma	8/9/207	12/31/08	Active	Extension till 12/31/12
TG174	Utilization of 18F-Fluorodeoxy glucose Positron Emission Tomography (FDG-PET) in Radiation Therapy	WGTP/RDSC	S. Das	5/12/08	12/31/11	Active	Extension till 12/31/12
TG191	AAPM Recommendations on the Clinical Use of Luminescent Dosimeters	WGRD/RDSC	S. Kry	9/21/09	12/31/11	Active	Extension till 12/31/13

TG203	Management of radiotherapy patients with implanted cardiac pacemakers and defibrillators	WGRD/RDSC	D. Mihailidis/M. Miften	5/11/10	12/31/11	Active	Extension 12/31/2013
--------------	--	-----------	-------------------------	---------	----------	--------	--------------------------------

1) WG in Treatment Planning (D. Followill)

Active TGs:

a) **TG71** (MU calculations-*J. Gibbons*)

Under review by Med. Phys. Journal.

b) **TG157** (commis of MC based TP systems-*C. Ma*)

Reviewable draft to be distributed before AAPM meeting.

Reviewers: G. Ding, J. Antolak, S. Stathakis, L. Wang. *F-F. Yin (Lead Reviewer)*.

c) **TG174** (PET for TP-*S. Das*)

The chair of the TG has difficulty getting contributions of revisions from member/writers. Other progress on the existing draft were made.

Reviewers: A. Sethi, N. Papanikolaou, J. Humm, S. Nehmeh, A. Kirov. G. Mageras (Lead Reviewer).

d) **TG176** (TP devices-*A. Olch*)

First draft under review by WGTP.

Reviewers: S. Das, S. Chang, M. Lovelock, C. Esquivel. C. Reft (Lead Reviewer).

e) **Report (White Paper)** (Treatment planning based on CBCT- *Sua Yoo*)

A revised draft under preparation based on comments by WGRD and RDSC reviews.

Reviewers: M. Miften, P. Xia. G. Mageras (Lead Reviewer).

f) **TG-219** (Independent Dose and MU Verification for IMRT Patient Specific Quality Assurance- *T. Zhu and S. Stathakis*)

Members are under preparation of their sections.

2) WG in Radiation Dosimetry (C. Reft)

Active TGs:

a) **TG155** (small field dosimetry-*I. Das*)

v24 was reviewed by RDSC and comments were sent to Lead reviewer for evaluation.

Reviewers: J. Lowenstein, N. Papanikolaou. *J. Moran (Lead Reviewer)*.

b) **TG-191** (Clinical use of luminescent dosimeters-*S. Kry*)

Had a face-to-face meeting, great progress a draft will be ready soon for review.

c) **TG-203** (Management of patients with pacemakers and defibrillators- *M. Miften & D. Mihailidis*)

Members are working on an updated draft.

NEW PROPOSALS:

1) 3D dosimetry using optical CT (*M. Oldham*).

Approved by WGRD. Most of WGRD members believe that the technology is new and a “special” report/paper with a quick turn-around time might be more appropriate than a full length TG.

2) Radiochromic Film Dosimetry: An Update to TG-55 (*Sou-Tung Chiu-Tsao*)

The proposal was approved by RDSC ready to move to TPC.

RDSC other items:

Accepted proposals for AAPM 2013 Practical Medical Physics Track:

1) Multivendor IGRT/SBRT (session chair: D. Mihailidis, speakers: D. Mihailidis, O. Gayou, T. Djemil)

2) Implanted Cardiac Devices (session chair: D. Mihailidis, speakers: D. Mihailidis, C. Reft, C. Hurkmans)