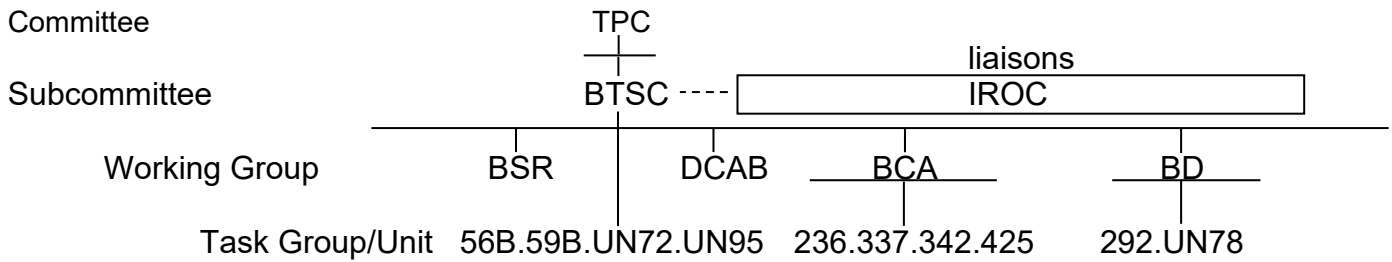


AAPM Brachytherapy Subcommittee Liaison Report to BRAPHYQS: 20250124



Societal Liaisons to the AAPM BTSC

Imaging and Radiation Oncology Core (IROC) Houston QA Center: Jessica Lowenstein

Committee

Subcommittee

Working Group

<u>Task Group/Unit</u>	chair and vice chair/s
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Therapy Physics Committee (TPC): Dimitris Mihailidis and Sean Dresser

Brachytherapy Subcommittee (BTSC): Susan Richardson and Mahta McKee
 TG-56B Practice Standards Update: Joel Poder and Tarun Podder
 TG-59B Practice Standards Update: Christopher Tien and Mahta McKee
 UN72 BTSC Survey: Christopher Melhus and Susan Richardson
 UN95 BT Inventory Management: Christopher Tien

Brachytherapy Source Registry (WGBSR): Åsa Carlsson Tedgren and Jessica Lowenstein

Model-Based Dose Calculation Algorithms (WGDCAB): Gabriel Fonseca and Choonik Lee

Brachytherapy Clinical Applications (WGBCA): Chris Deufel and TBD
 TG-236 3D imaging-based treatment planning: Yongbok Kim and Dorin Todor+Yusung Kim
 TG-337 Intensity modulated & anisotropic brachytherapy: Shirin Enger and Chris Deufel
 TG-342 Update on AAPM/GEC-ESTRO robotic brachytherapy: Tarun Podder and Adam Cunha
 TG-425 Guidelines for clinical trials using brachytherapy: Hayeon Kim and Jackie Zoberi

Brachytherapy Dosimetry (WGBD): Javier Vijande and Wes Culberson
 TG-292 Electronic brachytherapy dosimetry: Wes Culberson and Mark Rivard
 UN78 Brachytherapy dosimetry consensus data: Ernesto Mainegra-Hing and Ahmad Amoush

Brachytherapy Subcommittee

Phonecalls are held in spring and autumn to discuss new projects and overcome hurdles for ongoing projects.

- a) TG-56U (born 20230616) updates the 1997 AAPM report on brachytherapy code of practice. This ESTRO-endorsed report has been reviewed 5 times and the final BTSC cycle is underway.
- b) TG-59U (born 20230915) updates the 1998 AAPM report on HDR brachytherapy delivery. This ESTRO-endorsed report has completed BTSC and TPC review, and will soon be submitted to *Medical Physics*.
- c) UN72 (born 20210323) conducts BT-related surveys and has several projects in place.
- d) UN95 (born 20250411) is formulating guidance on inventory management for brachytherapy.

Brachytherapy Source Registry Working Group

The group has reviewed the AAPM Policy AP-75D on the Brachytherapy Source Registry and formulated suggestions to create an updated policy.

Model-Based Dose Calculation Algorithms Working Group

The group has published on the application of MBDCAs for some anatomic sites. Additional projects such as for brain and electronic brachytherapy are underway. All these results are being made available on the Brachytherapy Source Registry of the IROC Houston QA website.

Brachytherapy Clinical Applications Working Group

- a) TG-236 is a two-part (breast & GYN) AAPM-only report (born 20121003). The reports have been revised following several reviews by WGBCA+BTSC and recently by TPC. The past 26 months have included two TPC review cycles and two revisions of both reports.
- b) TG-337 is a joint AAPM+GEC-ESTRO (born 20190509). The report is nearly complete except for the QA subsection. ESTRO members include Michael Andrassy, Åsa Carlsson Tedgren, Stavroula Giannouli, and Yury Niatsetski. ESTRO review can start after the 2nd cycle of BTSC+WGBCA review.
- c) TG-342 is a joint AAPM+GEC-ESTRO report (born 20191111) to update the 2014 recommendations by AAPM+GEC-ESTRO in the TG-192 report on robotic brachytherapy. Both AAPM and GEC-ESTRO comments have been received. Following revisions based on TPC comments, a new version is prepared for further consideration by GEC-ESTRO in the coming weeks.
- d) TG-425 is an AAPM-only report (born 20240320) to provide guidance on structuring clinical trials that use brachytherapy. A near-final draft is completed and will be sent for AAPM review in the coming months.

Brachytherapy Dosimetry Working Group

- a) TG-292 (born 20161027) is an AAPM-only endeavor. A report on the Zeiss INTRABEAM source calibration and dose calculation protocols was published in 2020. The main report has undergone over a dozen reviews within the AAPM and should be submitted to the journal *Medical Physics* in the coming weeks.
- b) UN78 is a joint AAPM+GEC-ESTRO report (born 20220314), which started preparing a consensus dataset on dosimetry parameters for the ¹⁰³Pd CivaSheet source. Much of the writing is complete and new leadership is gathering the sections into a reviewable draft.

Upcoming brachytherapy-centric conference

The 2026 American Brachytherapy Society conference will be held in Los Angeles, CA (17-20 June).

<https://www.americanbrachytherapy.org/meetings-events/future-meetings/>

Respectfully submitted,
Mark J. Rivard, Ph.D.
AAPM BTSC liaison to BRAPHYQS