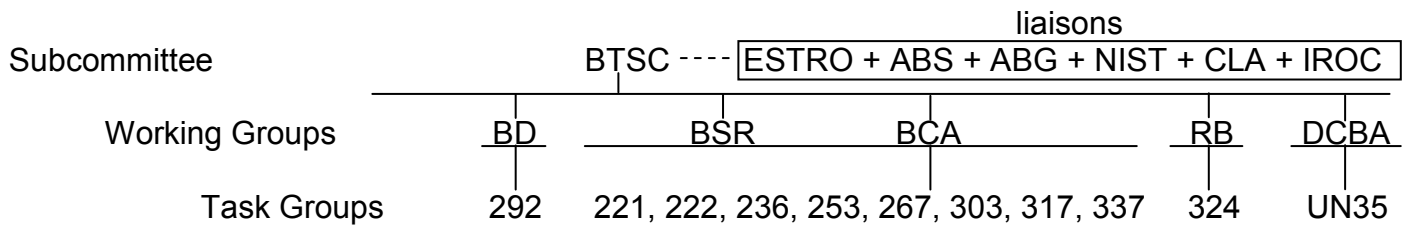


AAPM Brachytherapy Subcommittee Liaison Report to BRAPHYQS: 2019 November 21



Societal Liaisons to the AAPM BTSC

European Society for Radiotherapy & Oncology (ESTRO): Frank-André Siebert
 American Brachytherapy Society (ABS): Gil Cohen
 Australasian Brachytherapy Group (ABG): Annette Haworth
 National Institute of Standards and Technology (NIST): Michael Mitch
 Calibration Laboratory Accreditation Subcommittee (CLA): Ronald Tosh
 Imaging and Radiation Oncology Core (IROC) Houston QA Center: David Followill

Subcommittee

Working Group

Task Group

chair and vice chair/s

Brachytherapy Subcommittee (BTSC): Zoubir Ouhib and Regina Fulkerson/Ron Sloboda

Brachytherapy Dosimetry (WGBD): Wes Culberson and Chris Melhus
 TG-292 Electronic brachytherapy dosimetry: Wes Culberson and Mark Rivard

Brachytherapy Source Registry (WGBSR): Facundo Ballester and Wes Culberson

Brachytherapy Clinical Applications (WGBCA): Mark Rivard and Chris Deufel
 TG-221 Ocular brachytherapy: Rowan Thomson and Christopher Melhus
 TG-222 Lung mesh brachytherapy: Wenzheng Feng and Hualin Zhang
 TG-236 3D imaging-based treatment planning: Yongbok Kim and Dorin Todor/Yusung Kim
 TG-253 Surface brachytherapy: Regina Fulkerson and Jose Perez-Calatayud
 TG-267 Biophysical (radiobiology) models: Zhe (Jay) Chen and X. Allen Li
 TG-303 MRI guidance on HDR brachytherapy: Firas Mourtada and Joann Prisciandaro
 TG-317 Catheter/needle/applicator tracking technology: Luc Beaulieu and Adam Cunha
 TG-337 Intensity modulated & anisotropic brachytherapy sources: Shirin Enger and William Song

Robotic Brachytherapy (WGRB): Tarun Podder and Adam Cunha
 TG-342 Update on AAPM/GEC-ESTRO robotic brachytherapy: Tarun Podder and Adam Cunha

Model-Based Dose Calculation Algorithms (WGDCBA): Javier Vijande and Firas Mourtada
 UN35 Commissioning model-based dose calculations: Luc Beaulieu and Javier Vijande

Brachytherapy Subcommittee

Phonecalls are held every other month to discuss new projects and overcoming hurdles for ongoing projects.

Brachytherapy Dosimetry working group

- a) TG-292 is an AAPM-only report. They are investigating the Zeiss INTRABEAM source calibration and dose calculation protocols. An official letter was sent to Zeiss seeking clarifications of their methods. A rapid communication has been submitted to *Medical Physics* to clarify these issues for the readership.

Brachytherapy Source Registry working group

Nothing new to report.

Brachytherapy Clinical Applications working group

- a) TG-221 is an AAPM-only report, which is under review within *Medical Physics*.
- b) TG-222 is an AAPM-only report. The 5th review cycle by WGBCA+BTSC is completed, and the report is under review by TPC.
- c) TG-236 is an AAPM-only report with two parts. The 1st review cycle by WGBCA+BTSC is complete and a revision is being prepared.
- d) TG-253 is a joint AAPM+GEC-ESTRO report, which is under review within *Medical Physics*.
- e) TG-267 is a joint AAPM+GEC-ESTRO report. Review will commence following completion of two sections.
- f) TG-303 is an AAPM+ABS report, currently under revision following the 1st review cycle by WGBCA+BTSC.
- g) TG-317 is a joint AAPM+GEC-ESTRO report with a 20201231 deadline. Collaboration was established in 2017 with the ACROP checklist approved in May 2018.
- h) TG-337 was approved on 20190509 as an AAPM-only report on intensity modulated and anisotropic brachytherapy sources (IMABS). Sunset date is 20211231.

Robotic Brachytherapy working group

- a) TG-342 is a joint AAPM+GEC-ESTRO report that was approved on 20191111 on robotic brachytherapy to update the 2014 recommendations in the TG-192 report by AAPM+GEC-ESTRO. European members include Jocelyne Troccaz and Rien Moerland. Sunset date is 20211231. Need to concern for the ACROP checklist.

Model-Based Dose Calculation Algorithms working group

The working group is coordinating test cases for several anatomic sites including breast, GYN, head-and-neck, ocular brachytherapy, and eBT. These collaborative projects are making good progress.

- a) Unit 35 was approved May 2018 as a joint AAPM+GEC-ESTRO report. The ACROP checklist was approved June 2018. A draft report is being refined for submission in the next month.

Upcoming brachytherapy-related meetings in the U.S.

As the World Congress of Brachytherapy will be held in Vienna during the 2020 ESTRO annual meeting, the ABS will hold a Brachytherapy Summit in Big Sky, Montana (20200214 to 20200216)

<https://www.americanbrachytherapy.org/meetings-events/summit-2020/>

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