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| Reported by (Name): | Mark J. Rivard, Ph.D., FAAPM |
| Organization: | Groupe Européen de Curiethérapie and the European Society for Radiotherapy & Oncology (GEC-ESTRO). https://www.estro.org/About/ESTRO-Organisation-Structure/Committees/GEC-ESTRO-Committee |
| Position Title: | liaison, brachytherapy physics representative |
| Activity: | BRAPHYQS meeting and GEC-ESTRO annual workshop https://www.estro.org/ESTRO/media/ESTRO/Workshops/GEC/2022/2022-GEC-ESTRO-workshop-program-V8.pdf |
| Meeting Dates: | December 1-2, 2022 |
| Meeting Location: | Radisson Blue Hotel, 223 Promenades des Anglais, Nice, France |
| Payment \$: | none |
| Reasons for Attending or not Attending | Attending to represent the AAPM to stay abreast of brachytherapy-related developments in Europe and coordinate topics of potential overlap between GEC-ESTRO and the AAPM. |
| Issues from Previous Meetings or Year: | There have been no face-to-face meetings for the past three years. Videoconferencing has occurred quarterly |
| General Description of Activities of the Organization and/or Meeting: | BRAPHYQS is the parallel committee in GEC-ESTRO as BTSC is in the AAPM. BRAPHYQS develops work packages to issue European standards for brachytherapy-related issues towards harmonizing medical physics standards. They also guide and coordinate salient commercial entities. Often there is substantial overlap between ESTRO and AAPM brachytherapy-related topics. |
| Issues for AAPM: | none |
| Budget Request (\$): | none |

Agenda for 53rd GEC-ESTRO's BRAPHYQS group meeting

Chair: Frank-André Siebert Secretary: Åsa Carlsson-Tedgren
Date/Time: 01.12.2022, 11.00 to 17.00 (CET)
Venue: Radisson Blue Hotel, 223 Promenades des Anglais, Nice, FRANCE
Zoom participation will be provided (lunch 12.00 to 13.00)

Expected attendance:

BRAPHYQS core group members:

Dimos Baltas, Marisol De Brabandere, Taran Hellebust Paulsen, Christian Kirisits, Panos Papagiannis, José Pérez-Calatayud, Mark Rivard, Frank-André Siebert, Åsa Carlsson-Tedgren, Frank Verhaegen, Javier Vijande, Jacob Johannsen

Observer / sponsors:

From the following companies: Elekta, Varian, Eckert & Ziegler BEBIG

Others who were informed about the meeting:

Vratislav Strnad (GEC-ESTRO chair), Ina Schulz-Jurgenliemk (GEC-ESTRO past-chair), Catharine Clark (Physics Cmte chair), Alessandro Cortese (ESTRO CEO), ESTRO office

1. Opening remarks (FAS)

2. Minutes, general affairs

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| 2.1. meeting agenda (FAS) |
| 2.2. Next BRAPHYQS meeting (FAS) |
| 2.3. Sponsorship (FAS) |
| 2.4. SAMIRA ERVI project (FAS) |
| 2.5. ESTRO Handbook of Brachytherapy 2 nd Ed. (FAS) |
| 2.6. BRAPHYQS abstracts for ESTRO 2023 (FAS) |
| 2.7. Report of AAPM (MJR) |
| 2.8. BRAPHYQS webpage (JV) |
| 2.9. Chairperson of BRAPHYQS (FAS) |

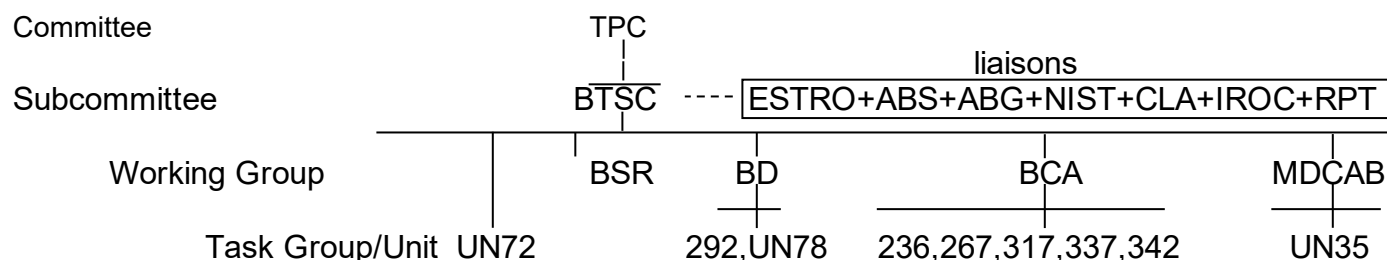
3. BRAPHYQS projects

- 3.1 15' WP22: Eye brachytherapy (Lotte Fog via Zoom)
- 3.2 15' WP14: In-vivo dosimetry, risk management and registries in brachytherapy, Brachytherapy treatment verification survey (JJ via Zoom)
- 3.3 20' WP19: Commissioning and QA of BT TPS (MDB)
- 3.4 5' WP21: Calibration of HE/HDR sources (JCP via Zoom)
- 3.5 15' PRISM-eBT (ÅCT)
- 3.6 15' Medical device regulation, MDR (FAS, JJ)
- 3.7 15' DICOM (YN)
- 3.8 New BRAPHYQS projects (FAS)

BRAPHYQS CORE members, November 2022

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|--------------------------------|-------------------------------------|
| Frank-André Siebert, D (chair) | José Pérez-Calatayud, ES |
| Dimos Baltas, D | Mark Rivard, USA |
| Marisol De Brabandere, BE | Åsa Carlsson-Tedgren, S (secretary) |
| Taran Hellebust, NO | Frank Verhaegen, NL |
| Christian Kirisits, AU | Javier Vijande, ES |
| Panos Papagiannis, GR | Jacob Johannsen, DK |

AAPM Brachytherapy Subcommittee Liaison Report to BRAPHYQS: 01 December 2022



Societal Liaisons to the AAPM BTSC

European Society for Radiotherapy & Oncology (ESTRO): Frank-André Siebert
 American Brachytherapy Society (ABS): Gilad Cohen
 Australasian Brachytherapy Group (ABG): Joel Poder
 National Institute of Standards and Technology (NIST): Michael Mitch
 Calibration Laboratory Accreditation Subcommittee (CLA): Jeffrey Siebers
 Imaging and Radiation Oncology Core (IROC) Houston QA Center: Stephen Kry
 Radiopharmaceutical Subcommittee (RPT): Robert Hobbs

Committee

Subcommittee

Working Group

| <u>Task Group/Unit</u> | chair and vice chair/s |
|------------------------|------------------------|
|------------------------|------------------------|

Therapy Physics Committee (TPC): Sonja Dieterich and Dimitris Mihailidis

Brachytherapy Subcommittee (BTSC): Zoubir Ouhib and Susan Richardson
 UN72 BTSC Survey

Brachytherapy Source Registry (WGBSR): Åsa Carlsson Tedgren and Wes Culberson

Brachytherapy Dosimetry (WGBD): Wes Culberson and Chris Melhus
 TG-292 Electronic brachytherapy dosimetry: Wes Culberson and Mark Rivard
 UN78 Brachytherapy dosimetry consensus datasets: Mark Rivard and Ahmad Amoush

Brachytherapy Clinical Applications (WGBCA): Mark Rivard and Chris Deufel
 TG-236 3D imaging-based treatment planning: Yongbok Kim and DorinTodor/Yusung Kim
 TG-267 Biophysical (radiobiology) models: Zhe (Jay) Chen and X. Allen Li
 TG-317 Catheter/needle/applicator tracking technology: Luc Beaulieu and Adam Cunha
 TG-337 Intensity modulated & anisotropic brachytherapy sources: Shirin Enger and William Song
 TG-342 Update on AAPM/GEC-ESTRO robotic brachytherapy: Tarun Podder and Adam Cunha

Model-Based Dose Calculation Algorithms (WGMD CAB): 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. There is increased coordination with parent committees to streamline the review process for reports. A new endeavor is to update (or retire) all extant brachytherapy-related reports. UN72 is reporting on surveys of brachytherapy-related training for medical physicists.

Brachytherapy Dosimetry Working Group

- a) TG-292 is an AAPM-only report. A report on the Zeiss INTRABEAM source calibration and dose calculation protocols was published in 2020. The main report is underway, to be submitted for review end of this year.
- b) UN78 is preparing a consensus dataset on dosimetry parameters for the ^{103}Pd CivaSheet source.

Brachytherapy Source Registry Working Group

The AAPM policy 75-C was approved in late 2021 to update Brachytherapy Source Registry compliance requirements. The current source under consideration is from Xofig/iCAD using electronic brachytherapy.

Brachytherapy Clinical Applications Working Group

- a) TG-236 is an AAPM-only report with two parts started on 20121003. The reports are under multiple revisions following review by WGBCA+BTSC.
- b) TG-267 started on 20140924. Reviews were received from WGBCA+BTSC and the revised report was recently resubmitted for further review. ESTRO members include Taran Paulsen Hellebust, Peter Hoskin, and Christian Kirisits. Formalities for GEC-ESTRO participation need to be clarified.
- c) TG-317 is a joint AAPM+GEC-ESTRO report started on 20180325. ESTRO collaboration was established in 2017 with the ACROP checklist approved in May 2018. ESTRO members include Christoph Bert, Maxence Borot, Inger-Karine Kolkman-Deurloo, Rien Moerland, Yury Niatsetski, and Kari Tanderup. The report will be submitted for joint review by end of this year.
- d) TG-337 started on 20190509. The report is nearly complete and should be ready for review in January 2023. ESTRO members include Michael Andrassy, Åsa Carlsson Tedgren, Stavroula Giannouli, and Yury Niatsetski. Formalities for GEC-ESTRO participation need to be clarified.
- e) TG-342 is a joint AAPM+GEC-ESTRO report started on 20191111 to update the 2014 recommendations by AAPM+GEC-ESTRO in the TG-192 report on robotic brachytherapy. The ACROP checklist was approved in April 2020. ESTRO members include Christian Langmack, Rien Moerland, and Alexander Schlaefer. The report is nearly complete and should be ready for review in January 2023.

Model-Based Dose Calculation Algorithms Working Group

The working group is coordinating test cases for several sites including breast, GYN, head-and-neck, ocular brachytherapy, and eBT. These collaborative projects are making good progress and are in process to finalization and publication. UN35 was approved May 2018 as a joint AAPM+GEC-ESTRO Report. The ACROP checklist was approved June 2018. The UN35 report was reviewed by WGBCA+BTSC and ESTRO/ACROP, and the revised report was submitted as Report 372 to *Medical Physics* in the summertime.

Upcoming brachytherapy-centric meeting(s)

The 2023 American Brachytherapy Society meeting will be held in person (22-24 June) in Vancouver, CANADA.
<https://www.americanbrachytherapy.org/meetings-events/annual-2023/>

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