BULLETIN

Jan 2026

SGSMP
SSRPM
SSRFM

Schweizerische Gesellschaft für Strahlenbiologie und Medizinische Physik
Société Suisse de Radiobiologie et de Physique Médicale
Società Svizzera di Radiobiologia e di Fisica Medica
Swiss Society of Radiobiology and Medical Physics

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Contents

BULLETIN 113

Jan 2026

Cover image:
San Marco libera uno schiavo, 1547-1548
oil on canvas, **Jacopo Tintoretto** (1519 - 1590)
(Italy, Venezia, Gallerie dell'Accademia)

Editorial

Letter from the Editors

Dear colleagues,

Happy new year! Before reading some serious medical physics content, we are pleased to present your 2026 horoscope, written after a rigorous, AI-assisted and unquestionably scientific observation of the stars.

Aries Avoid scheduling quality assurance checks during the March full moon: stellar misalignment rarely helps measurements.
Taurus The stars favour you this year: a rare opportunity to optimise that long-ignored imaging protocol in the operating theatre.
Gemini Complaining about physicians remains ineffective; try explaining things once again, perhaps with fewer equations.
Cancer Radiation protection takes centre stage: trust your instincts, your calculations, and your dose monitoring.
Leo Yes, you are right, as usual. But sometimes it is perfectly acceptable to let go after the second decimal place
Virgo Your love for details remains unmatched; remember that not every deviation requires a full report.
Libra Balance is key: between clinical work, deadlines and emails, learn to say "no" or at least “not today”.
Scorpio You will detect inconsistencies invisible to others. Unfortunately, you will not be able to ignore them after that...
Sagittarius New projects will tempt you; before accepting, check whether you still have free evenings.
Capricorn Guidelines and standards remain your compass; remind others that "we have always done it this way" is not a scientific argument.
Aquarius Innovation is on the horizon; just ensure that new tools survive acceptance testing.
Pisces Your empathy is valued, but even a medical physicist needs coffee before solving everything.

Obviously, all of this is pure nonsense. We hope it made you smile, despite the rather difficult and sometimes sad news at the beginning of 2026. We wish you all a wonderful 2026, good health for you and your families, and much pleasure reading our Bulletin!

Your Editors

PRESIDENT'S LETTER

Dear colleagues,

Hope you had a wonderful Christmas and enjoyed the holiday break! Now that we're back, I'm sure you're ready to dive into your projects with fresh energy.

If you couldn't make it to our recent get-togethers—the Annual Meeting (AM) and General Assembly (GA) in October and AMP in December—no worries! Here's a brief look at the main highlights since our previous update.

Our 57th SSRMP annual meeting took place in Geneva, where, together with my colleagues from HUG (groups from imaging and radiation therapy) and CERN (radiation protection group and the knowledge transfer group), we had the great pleasure to welcome our members for our AM2025. It was particularly meaningful to hold the event in Geneva, the city where the society was originally founded in 1964 with Professor Dr. Hedi Fritz-Niggli as its first president. I thought that since we all are physicists, it will be interesting to visit CERN. Moreover, it was a great opportunity to bring together clinics and research by organizing the meeting together with CERN. We were looking forward to the contributions from these two communities and we were not deceived. The scientific sessions were one of the most exciting parts of the AM. We got to enjoy a fantastic mix of talks covering everything in medical physics—radiation therapy, nuclear medicine, X-ray imaging, and radiation protection. And the best part of it is that it wasn't just the senior experts sharing their knowledge and new advances in their very insightful presentations, but our younger colleagues jumped in with fresh ideas and energy. Huge thanks to all of them for bringing such great vibes to the congress!

I'd like to extend my gratitude to our sponsors, who were there not only to showcase their products but also to engage with our community and share their expertise. Your support is invaluable; it creates opportunities for collaboration that benefit us all. We truly appreciate your contribution and commitment to making this event a success!
Finally, a big thank you to my colleagues on the local organizing committee for their incredible teamwork in making this AM a success for the SSRMP. You supported the

idea from the start, and after many meetings and lots of effort, we managed to deliver a great event for our colleagues. Last but certainly not least, warm thanks to the scientific committee for their dedication in shaping the excellent scientific program we all enjoyed.

The GA took place on the afternoon of the first day of the congress. During the assembly, we could bring to you the majority of what has happened during this year 2025 within our society. I presented the work carried out by the board and we also shared updates on the ongoing and recently completed activities of our permanent committees. I would like to take this moment to express my sincere thanks to all the members of our three permanent committees for their dedication. A big thank you as well to everyone involved in the working groups—their efforts deliver valuable results for our community, benefits that all members can enjoy. Your contributions truly make a difference!

Just to finish this chapter on our AM, let me remind you that our colleagues from Kantonsspital St. Gallen will organize and host the 58th SSRMP AM, that will take place the 5th and 6th of November 2026. A big thank you to them for their commitment and make sure to mark your calendars. We're looking forward to an amazing event and can't wait to see you there!

We are a growing community with now more than 350 members and this year we have the pleasure to welcome 27 new members. Don't hesitate to engage in our many working groups or even propose new ones. This year, several new working groups started their activities. Thanks to everyone involved, your dedication and hard work are the driving force behind many of the initiatives that keep our community growing and evolving. From developing new ideas to delivering practical solutions, your contributions make a real difference not just for today, but also for the future of our society. We truly appreciate the time, expertise, and energy you invest to move our small community forward.

I encourage you to stay tuned with what is going on. I'm sure that there are many activities that could be interesting for you. We have a dedicated group that works hard to bring to you all the information via our webpage, newsletters, bi-weekly, bulletin and now via LinkedIn too. Thank you, all the team, for the work produced in 2025. Of course there are other opportunities for getting all information, those events when we meet personally, such as the AM (once a year), AMP (twice a year) and continuous education days. And if this is not enough, you can always contact us via e-mail, all contact details are available in our webpages.

That's all from me for now, go ahead and explore the rest of the bulletin. I can't wait to connect with you soon, whether at meetings, congresses, or through one of our many exciting projects. Your involvement is what keeps our community prospering. Wishing you a great start to the new year—let's make it a fantastic one!

Marta Sans Merce
SSRMP President

Professional Affairs Committee Annual Report

Dear colleagues

...And just like this another year has gone by. It was a busy one for myself and also for the society – and not least for the different members of the professional affairs committee that consists of 9 members: Siria Medici, Silvan Müller, Elina Samara, Sara Alonso, Davide Cester, Marie Fargier-Voiron, Anisoara Socoliuc Toquant, Lotte Wilke and myself as Chair.

Our main acitivities during this year were focused on keeping our digital platforms up to date, ensure member communication and following international developments.

After the activation of our new member database, we are now finally able to keep all the mailing lists much more easily up to date – I hope, that by now, all members wishing to receive our Biweeklys, Newsletters and Bulletins do so.

Speaking of member communications: Ani and Lotte sent out 16 Newsletters and 13 Biweeklys, updated several job offers on our Webpage. If anyone of you has something to tell to our whole community, you can always send a request for publishing the information in a Newsletter of Biweekly directly to webmaster@ssrmp.ch.

We also saw three new Bulletin editions during 2025. Davide and Marie always manage to motivate people to write reports on conferences and meetings, find groups for spotlight articles and have new ideas for riddles and fun. You can always use bulletin@ssrmp.ch if you have an interesting contribution to one of the next editions.

With the idea of bringing even more information to you, a LinkedIn profile for SSRMP was founded – we are still looking for persons motivated to fill this account with useful information about what is going on in

medical physics in Switzerland. Do not hesitate to contact me or any board member if you are interested!

From an international point of view, we are of course always interested in what is going on in Europe. From our official EFOMP delegates Sara Alonso and Elina Samara we receive regular updates. This year was particularly intersting regarding the new e-learning platform e-LEMENT.

The year 2026 will bring different challenges to our profession, one being the update of the tarifs for Radiooncology on one hand, for diagnostic and interventional procedures in Radiology an Nuclear Medicine on the other hand.
After some questions by different members, Regina Seiler was able to organize an informational Online-Meeting in June, where Daniel Zwahlen, President of SRO gave some background information on the thoughts and ideas behind the new flatrate tarifs. It was a very interesting talk and quite a lot of members were listening to Daniel Zwahlen.

When looking into 2026 from our own perspective, the first thing that comes to my mind is the next salary survey. The last one was conducted in 2023, so following the traditional 3-year cycle, the nex will take part during 2026. I hope to be able to send out the questionnaire before the summer holidays, so be prepared and have your information ready.

Now I look forward to the next year and new challenges in our professional field!

On behalf of the committee for professional affairs

Yvonne Käser

Science Committee Annual Report

Dear colleagues,

The current **Scientific Committee** was formed in December 2022 and includes the following members: Mania Aspradakis, Thomas Buchsbaum, Margherita Casiraghi, Sarah Ghandour, Peter Manser, Raphaël Moeckli, Stephanie Tanadini-Lang, Anaïs Viry, and myself.

First, I would like to warmly thank **Margherita** for stepping in as Interim Chair of the Scientific Committee from September 2024 to March 2025. She did an excellent job, and I am very grateful to her for accepting this role during my maternity leave.

Two **Applied Medical Physics (AMP) meetings** took place this year. As usual, both meetings opened with a report from the President on current topics of interest for the Society and the activities of the Board.
In June, Oscar Matzinger provided valuable insights into the new radiation therapy **reimbursement system** that will be implemented in 2026. This was followed by a joint session with the Early Careers WG for its official kick-off meeting. Siria introduced the WG and its objectives, and Damien Racine gave a presentation on communication of radiological risk. We also heard reports from several WG chairs, including Natalia Saltybaeva (room shielding in the kV domain), Damien Racine (roles and tasks of medical physicists in imaging), David Patin (TPS QA), and Davide Cester (AI).
In December, two invited speakers —Jenny Bertholet and Vincent Fave— shared their experience with online adaptive radiotherapy using the **Ethos platform** (see also the report of an attendee on page 23). Thierry Buchillier then presented the SSRMP intercomparison results for 2023, 2024, and 2025, as well as an extension intercomparison project covering intermediate-energy beams (100–300 kV). The meeting concluded with updates from several WG chairs, including Michele Zeverino (AI), Adela Ademaj

(Hyperthermia), Damien Racine (roles and tasks of medical physicists in imaging), and Silvan Müller (TPS QA WG).

At present, the SSRMP has **13 working groups** (WGs). You will find the full list on the society website [1]. Please do not hesitate to contact the WG chairs if you have questions, if you would like to contribute, or if you are interested in joining a group. If you are considering starting a new WG, the Board will be happy to discuss this with you. All contributions —large or small— are greatly appreciated.

You may also have noticed a new distinction between **permanent and temporary WGs**. Permanent WG are intended to serve as long-term platforms on specific topics. They are expected to provide periodic updates to the SSRMP community and issue calls for new members at defined intervals.

In 2025, **four new working groups** were launched:

- The **Hyperthermia WG**, chaired by Adela Ademaj, aims to review current practices and the roles of medical physicists in hyperthermia treatments. Its objectives include proposing QA guidelines for hyperthermia when used in combination with radiotherapy or chemotherapy and proposing a reporting system for standardize thermometry data.
- The **WG for the Revision of Guidelines for obtaining the SSRMP Medical Physicist Certification**, initiated by Julien Ott, focuses on a comprehensive revision of the certification process. This includes the roles of the relevant commissions, fields of specialization, admission criteria, training, examination, and continuing education.
- The **Artificial Intelligence WG**, co-chaired by Davide Cester and Michele Zeverino, is designed as a permanent platform for collecting and sharing knowledge on AI in medical physics, with two-year activity cycles. Its first actions included launching a national survey on AI research and clinical applications in Switzerland, as well as creating a curated repository of AI resources. One of the key ongoing tasks of this WG is the organization of educational events.
- In addition, the **Early Careers WG**, chaired by Siria Medici, aims to bridge the gap between education and professional practice while bringing together early-career members. Its goals include creating networking opportunities, sharing training and continuing education resources, and gathering feedback through surveys to ensure the Society continues to align with the evolving needs of its members.

The **RPO2MPP WG** is also active again. Originally launched in 2017 following the introduction of the new radiation protection ordinance (**RPO**), this WG aims

to provide recommendations on how to implement regulatory requirements into medical physics practice (**MPP**). Its first major achievement was the publication of the "*Recommendation for the creation of a quality handbook in the context of clinical audits*". A second document, the "*Recommendation for the reporting of imaging dose in the context of IGRT*", was already well advanced in 2018 and has now been taken up again for updating. Francesca Belosi, Mauricio Leick, and Raphaël Moeckli are currently finalizing this document.

As in previous years, the Institute of Radiation Physics in Lausanne was mandated by the SSRMP to organize the annual 2025 **dosimetry intercomparison** for Megavoltage units. Thirty institutions participated, resulting in a total of 136 beams checked (116 photon beams and 20 electron beams). Overall, the results were very good. Full details can be found in the September 2025 edition of the Bulletin. If you do not have a printed copy available in your coffee room, remember that all previous Bulletin editions are available online [2].

This year, the Scientific Committee evaluated two applications for the **SSRMP Research Grant**. The award was granted to Jenny Bertholet for the project "**Towards a dosimetry audit for daily adaptive radiotherapy in Switzerland**". As stated in the application, "*the overall aim of the project is to establish the specifications and feasibility of an OSLD-based dosimetry audit for daily ART on a variety of platforms*". Congratulations to Jenny, and best of luck with this exciting project. The deadline for submission of applications for the 2026 Research Grant is 30th of June (see page 12).

I would like to thank once again Margherita, all members of the Scientific Committee, the WG chairs and members, Thierry Buchillier and Claude Bailat for their work on the TLD intercomparison, my colleagues on the Board, and all speakers who contributed to the AMP meetings. Wishing you all a very happy start to 2026!

Maud Jaccard
Chair of the Scientific Committee

[1] https://ssrpm.ch/the-society/working-groups/
[2] https://ssrpm.ch/publications-and-communication/bulletin/

ESTRO Working Groups

As it appears in its Statutes ESTRO has the mission "*to foster radiation oncology, clinical oncology and related subjects, including physics as applied to radiotherapy, radiation technology and radiobiology*".

To fulfill its mission ESTRO, among other tactics and activities, encourages and endorses different kinds of Focus Groups in radiation therapy as well as in radiation oncology. The scope of these Focus Groups is to improve and keep up to the state of the art the standards of practice in RT. A side-effect of this is that international co-operation and exchanges among medical physicists, radiation oncologists and radiobiologists is made possible.
SSRMP members are also very active in different Working Groups (WG) within our society.

As a new year starts, it might be a good opportunity to point-out some interesting ESTRO WGs which scope partly overlaps with the SSRMP ones. Maybe some member of a SSRMP WG might think appropriate to join a correspondent ESTRO WG so to align our practices and recommendations to international standards; or just so to receive more diverse inputs.

Here is a sample of some ESTRO Focus Groups. More can be found at:
https://www.estro.org/About/ESTRO-Organisation-Structure/Focus-Groups

- AI in RT Focus group
- Dosimetry and QA
- Hyperthermia
- Reirradiation
- SBRT
- Spatially Fractionated RT

SSRMP Research Grant 2025

For the Research Grant 2025 the Committee has decided to award the research grant and congratulates with **Jenny Bertholet** from Inselspital Bern!

SSRMP Research Grant Proposal

Jenny Bertholet

Towards a dosimetry audit for daily adaptive radiotherapy in Switzerland

The overall aim of the project is to establish the specifications and feasibility of an OSLD-based dosimetry audit for daily ART on a variety of platforms.

SSRMP Research Grant 2026

In order to support and promote the scientific activities of our members in Switzerland active in all fields of Medical Physics, a research grant is provided by SSRMP. As in the last years, a financial grant of maximum **7'000 CHF** is offered for research projects fulfilling proper eligibility criteria.

The projects should:

- be submitted by one regular member of SSRMP
- be conducted entirely in Switzerland in one of the private or public institutes active in the field
- preference will be given to projects involving more than one institute aiming to a trans-linguistic and trans-cultural cooperative model
- be strictly linked to a field of interest of SSRMP
- be completed within the time span of one year from grant assignment

The group that will be awarded with the grant will have to provide the SSRMP Science Committee with a detailed report (inclusive of costs justification) at the end of the one-year period and will guarantee the publication of a scientific report in the SSRMP Bulletin. The scientific report should be, pending scientific committee's review and approval, submitted for oral contribution to the annual SSRMP meeting.

Deadline for submission of proposals is June 30th 2026.

Proposals should not exceed four A4 pages and should contain:

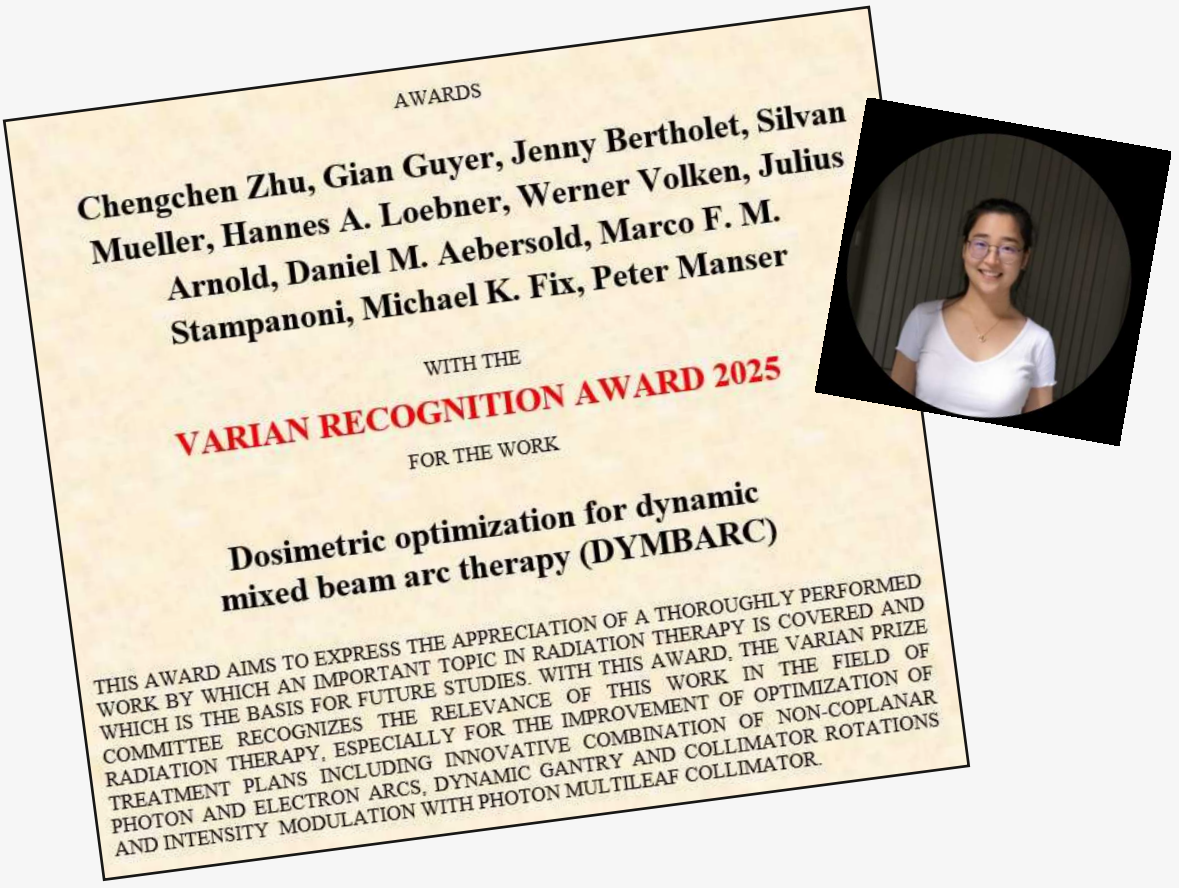
- project title and planned duration
- principal investigator's and co-investigator's names and responsibilities in the project
- short description of the scientific background
- short but detailed description of the project
- short description about current state of the art in the field
- detailed and itemized budget, clearly indicating the amount requested from SSRMP, with a brief justification for each cost item and any additional funding or institutional support, if applicable

Proposals should be submitted via email to the chair of the SSRMP Science Committee:

Maud Jaccard
chair.science@ssrmp.ch

Varian Recognition Awards 2025

This year, the Varian Recognition Awards was presented during the General Assembly to Chengchen Zhu, along with her co-authors. Details of the awarded work, as well as information about the application process, can be found on the SSRMP website.


AWARDS

Chengchen Zhu, Gian Guyer, Jenny Bertholet, Silvan Mueller, Hannes A. Loebner, Werner Volken, Julius Arnold, Daniel M. Aebersold, Marco F. M. Stampanoni, Michael K. Fix, Peter Manser

WITH THE

VARIAN RECOGNITION AWARD 2025

FOR THE WORK

Dosimetric optimization for dynamic mixed beam arc therapy (DYMBARC)

THIS AWARD AIMS TO EXPRESS THE APPRECIATION OF A THOROUGHLY PERFORMED WORK BY WHICH AN IMPORTANT TOPIC IN RADIATION THERAPY IS COVERED AND WHICH IS THE BASIS FOR FUTURE STUDIES. WITH THIS AWARD, THE VARIAN PRIZE COMMITTEE RECOGNIZES THE RELEVANCE OF THIS WORK IN THE FIELD OF RADIATION THERAPY, ESPECIALLY FOR THE IMPROVEMENT OF OPTIMIZATION OF TREATMENT PLANS INCLUDING INNOVATIVE COMBINATION OF NON-COPLANAR PHOTON AND ELECTRON ARCS, DYNAMIC GANTRY AND COLLIMATOR ROTATIONS AND INTENSITY MODULATION WITH PHOTON MULTILEAF COLLIMATOR.

We congratulate the winners and thank them for the important work! In addition, we thank Varian Medical Systems for their support.

Maud Jaccard
Swiss Medical Network, Genolier and Geneva
President of the Varian Prize Committee

Varian Award for Radiation Oncology of SSRMP 2026

Deadline for submission: March 31st 2026

Award rules:

1. SSRMP can award during the annual general assembly up to three Varian prizes. The maximum amount for a single Varian prize is SFr. 3'000.-. Siemens Healthineers International AG (Varian Business Area) donates to SSRMP each year SFr. 3'000.- for the Varian prize.
2. The prizes are given to single persons or to groups, which have made an excellent work in radiobiology or in medical physics. Only members of SSRMP or groups whose main applicant is a member of SSRMP are legitimate to apply with a manuscript or with a published or unpublished paper of special importance, special originality or special quality. The size of the work should not exceed the normal size of a paper. A thesis normally exceeds this size. The person, who enters a paper written by more than one author, should have contributed the major part to this paper. The consent of the co-authors must be documented.
3. Previous awardees are excluded from applying in another year.
4. The winner gets the prize amount, as well as a diploma with an appreciation.
5. The invitation for the Varian prize is published in the bulletin of SSRMP. Direct applications or recommendations of other persons can be sent to the President of SSRMP. The documents should be entered in four specimens not later than six months before the annual meeting.
6. A prize committee judges the entered works. It consists at least of three members of SSRMP and is elected or reelected for 2 years by the SSRMP board. At least one member of the prize committee should be member of the SSRMP board.
7. The prize committee constitutes itself. The decision of award together with the appreciation should be sent to the board for approval.
8. Varian Medical Systems Inc. is indebted to announce in written form each change of the prize amount or a termination of the contract to the president of SSRMP at least one year in advance.
9. This regulation was accepted by Varian Medical Systems Inc. (Switzerland) November 1st, 2023 and renewed by the annual assembly of SSRMP November 30th, 2023. It can be changed only with the approval of Varian Medical Systems by a decision of the annual assembly of SSRMP.

Note that there will be an award ceremony during the general assembly in 2026 and a publication of the Varian prize recipients is then taking place in the SSRMP bulletin and on the SSRMP website.

Maud Jaccard,
Swiss Medical Network, Genolier and Geneva
President of the Varian Prize Committee

Education Committee Annual Report

In 2025, the Education Committee continued its mandate to support education, training, and certification in medical physics in Switzerland. The year was marked by both continuity in core activities and a significant transition within the Committee, with 71% of its members being newly appointed. While this renewal brings valuable new perspectives and expertise, it unfortunately also meant that some tasks progressed more slowly than anticipated, and the Committee sincerely apologises for any delays in replying to enquiries or processing requests.

Regarding certification activities, 12 candidates presented for the SSRMP certification examinations in 2025, of whom 7 successfully passed and fulfilled all requirements for certification, while the remaining candidates may re-sit the examination in accordance with the examination regulations. The Committee continued to oversee candidates in training and preparation for certification across the recognised specialisations and, in respect to training, is actively discussing with other working groups the organisation and coordination of different training topics.

Following a proposal from within the Committee, a working group has been initiated to review the certification guidelines; this group is led by Julien Ott and aims to ensure continued alignment with current professional practice. Another task undertaken by the Committee in 2025 is the improvement and harmonisation of mentor reports and training plans, with the goal of enhancing clarity and consistency across training sites.

The Education Committee welcomes suggestions, feedback, and questions from members and wishes to thank all examiners, mentors, and contributors for their commitment and support during this transitional year.

Thiago Lima
Chair of the Education Committee

Results of the Certification Exams 2025

In the exams for the certification in medical physics SSRMP 2025 (27.10. - 3.11.) 7 colleagues succeeded, of which 1 with a certificate in medical imaging:

In alphabetical order:

Apostopoulos, Filippos (Kantonsspital Graubünden)

Fürstner, Markus (Inselspital Bern)

Gabrys, Hubert (Universitätsspital Zürich)

Gajdoš, Viktor (Kantonsspital Baden)

Liebig, Pauline (Spital Thurgau)

Pusterla, Orso (Kantonsspital Aarau)

Szweda, Hubert (PSI, Villigen)

On behalf of the examination committee and the SSRMP board, I want to congratulate the candidates for their certification and the new position in the community connected to that.

Götz Kohler
Chair of the SSRMP exam committee
25.11.2025.

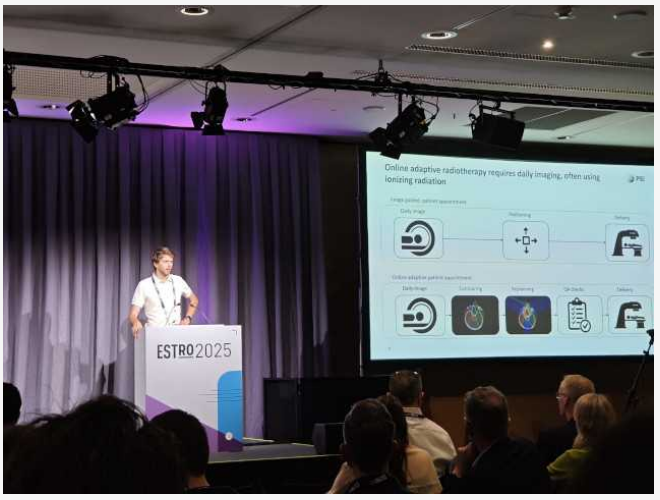
ESTRO 2025

Vienna, 2nd of May - 6th of May 2025

The editorial team would like to sincerely apologize for the delayed publication of this article, which was submitted on time for inclusion in the previous issue. We thank Björn for his patience and understanding.

As I walked toward Messe Wien, the atmosphere was undeniably vibrant. Some of that energy may have come from the nearby Prater amusement park, but the buzz around ESTRO 2025 certainly contributed its share. For many returning participants, the venue was familiar, as Vienna has hosted the ESTRO Congress on several previous occasions. But for me, attending for the first time, the scale of the event was striking. The sheer size of the congress halls and the number of parallel sessions, up to 13 at any given time, felt like stepping into a new dimension of our research community.

The congress was structured around major tracks: Interdisciplinary, Radiobiology, Clinical, Physics, RTT, Brachytherapy, and Young ESTRO. This broad offering aligned well with the congress theme: Transformative Innovation Through Partnership.



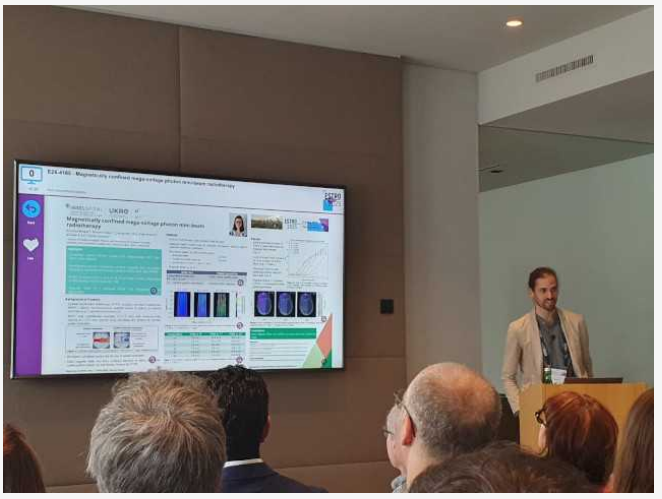
Unlike some previous years, there wasn't a single dominant topic that stole the spotlight. While artificial intelligence might typically be expected to fill that role, this year's program approached it more subtly. The number of dedicated AI sessions was reduced, with organizers instead choosing to highlight AI as an enabling tool across various areas. The focused AI sessions that did take place dived into model explainability, with researchers making meaningful progress in opening up the "black box" that AI often represents.

Other recurring topics throughout the congress included online adaptive radiotherapy, often discussed in combination with MR-only workflows. Dose accumulation also appeared across several tracks, featuring prominently in sessions on online adaptation, re-irradiation, and

brachytherapy. Treatment planning was another point of focus, not only in scientific presentations but also in the exhibition hall. Innovations ranged from proton arc therapy and upright positioning systems to planning approaches for combined radiotherapy and hyperthermia. Radionuclide cancer therapy received dedicated attention this year, with a focused session on dosimetry.

One track that certainly stood out was the Young ESTRO track, which ran throughout Monday and offered a thoughtful mix of networking and educational sessions. Activities ranged from “speed dating” for professional connections to practical lectures on topics such as how to read a paper. A particularly memorable session addressed the imposter syndrome, something many young researchers, especially those attending a congress of this scale for the first time, could deeply relate to. It was a refreshing and supportive space that acknowledged the emotional side of early career development in science.

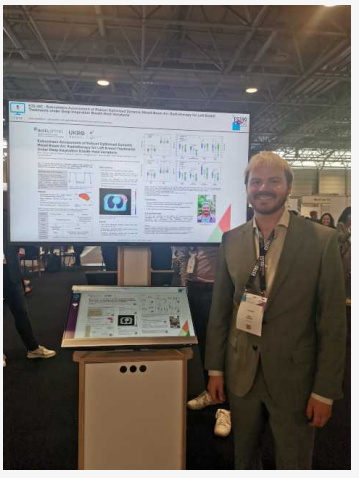
The exhibition hall was equally impressive, showcasing a wide range of vendors, from small startups to industry giants. What particularly stood out was the wave of innovation around MR systems designed specifically for seamless integration into the radiotherapy workflow. Nearly every major MR vendor presented its own AI-driven auto-segmentation and synthetic CT solutions. AI-based segmentation was clearly a hot area, not just among established companies but also among smaller startups, some of which



even demonstrated tools capable of target volume segmentation.

Like many others, I leave Vienna both tired and inspired, energized to continue exploring the many directions radiation oncology research can take. With that momentum, next year’s congress in Stockholm promises to be just as engaging.

Björn Zobrist
Doktorand
Inselspital Bern - Division of Medical Radiation Physics and Department of Radiation Oncology



SSRMP ANNUAL MEETING 2025

CERN, Geneve, 29th - 30th of October 2025

The 57th Annual Meeting of SSRMP took place in Geneve and more specifically at CERN; this special setting resulted in some scientific and social "contaminations" with the on-site community of physicists. We collected a few pictures from these two exciting days!

SAVE THE DATE!

The 58th Annual Meeting will take place on the

5th and 6th of November 2026 in St. Gallen

hosted by our colleagues at the Kantonsspital SG.

Issues Of Interest

SGSMP SSRPM SSRFM

57th SSRMP Annual Meeting

CERN

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PHYSROM Meeting – Autumn 2025: An edition rich in innovation

Hôpitaux Universitaire de Genève, 24th of November 2025

The French-speaking Swiss community of medical physicists gathered on November 24th, 2025 at Geneva University Hospitals (HUG) for the autumn edition of PHYSROM. Once again, the meeting proved stimulating thanks to the diversity of the scientific work presented and the quality of the exchanges. Many thanks to Nikos Koutsouvelis for hosting the event and guiding participants through the radiotherapy department.

Imaging optimisation: Johanie Uccelli (HUG) demonstrated that improved selection and fusion of head-neck CT acquisition sequences can reduce dose to anterior OARs (-7% thyroid, -10 to -33% lens) without compromising image quality. A simple yet promising optimisation currently undergoing clinical validation.

Robust planning in lung SBRT with CyberKnife: Maud Gondré (CHUV) compared conventional and robust planning strategies for lung SBRT delivered with CyberKnife. Robust optimisation yielded slightly lower OAR doses, at the cost of significantly increased optimisation time, highly dependent on the tracking modality (Synchrony vs Spine) and target definition (GTV vs ITV). A topic that will undoubtedly feed further discussions regarding clinical adoption.

RayStation planning automation: David Patin (CHUV) presented a planning script capable of automating

goal assignment, iterative constraint adjustment and plan optimization within RayStation. While this collaborative and evolving tool can standardize workflows across centers, David emphasized that the clinical judgement of the medical physicist (case review, evaluation of trade-offs, interpretation of patient-specific constraints, ...) remains irreplaceable.

Preparing for Radixact adaptive radiotherapy: Amandine Capacci (Swiss Medical Network) presented a characterization study of Radixact fan-beam kVCT protocols as part of the roadmap toward offline and online adaptive radiotherapy (ART). Key findings included the need for protocol segmentation, minimal dosimetric impact, and the importance of building a robust QA program to support transition to ART. A topic of high interest as several centers in the region pursue similar developments.

QA for Dose Management Systems (DMS/DACS): Yolande Petegnief (Hôpital du Valais) highlighted the essential yet often invisible role of QA in dose-management systems: consistency of DICOM/HL7 data flows, reliability of SSDE and skin-dose estimation algorithms, and rigorous testing following software or modality updates. A critical area for ensuring patient safety and regulatory compliance.

TrueBeam bunker construction: Sheeba Thengumpallil (Clinique des Grangettes) presented a detailed feedback report on the construction of a new TrueBeam bunker. Despite significant architectural, shielding, logistical and organizational challenges, the system was successfully commissioned in August 2025, on schedule. An exemplary multidisciplinary achievement.

Reusing Calypso transponders as radiopaque fiducials: Natacha Ruiz (HUG) demonstrated that Calypso electromagnetic transponders can be reused as radiopaque fiducial markers for CyberKnife tracking in cases of recurrent prostate cancer. The study showed precise detection, stable tracking and no detrimental impact on treatment planning : An elegant solution improving both patient comfort and treatment quality.

kV FLASH-RT: first results from a UHDR prototype Patrik Gorge & Michèle Knol (HUG) presented the characterization of a kV UHDR prototype (>100 Gy/s) designed for preclinical FLASH radiotherapy research. Initial measurements indicate good beam uniformity and linearity despite major metrological challenges inherent to UHDR conditions. A solid foundation for upcoming biological studies.

Conclusion: This PHYSROM edition once again illustrated the remarkable dynamism of the French-speaking Swiss medical physics community. Imaging optimization, advanced planning, automation, adaptive radiotherapy, radiation protection, and UHDR innovation, ... All highlight an active, creative and highly collaborative ecosystem.
We look forward to the next meeting in Spring 2026, that will be hosted by the physicist's team of Hôpital du Valais, Sion, to continue these essential exchanges that advance our clinical practice.

Jarno Bouveret
Hôpital de La Tour

Second Applied Medical Physics (AMP) Meeting 2025

Bern, 5th of December 2025

Before celebrating the end of the year, the second AMP meeting of 2025 took place in Bern, in a great room where the coffee buffet was waiting right next to us!

A nice coffee buffet :-) !

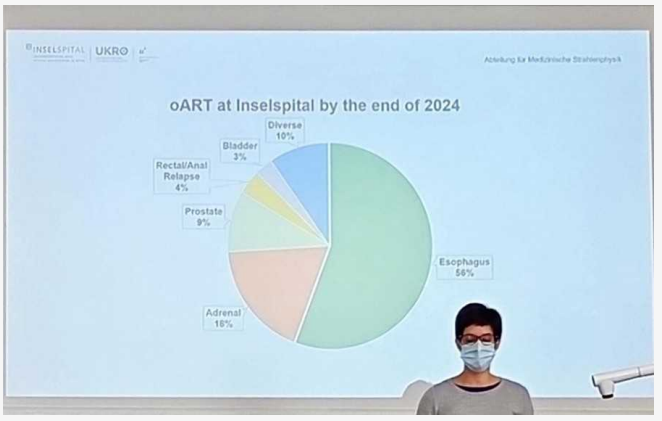
The meeting started with an introductory presentation by the Chair of Scientific Affairs **Maud Jaccard**, highlighting the reactivation of the RPO2MPP group to finalize the recommendations on reporting imaging dose in the context of IGRT.

Marta Sans Merce

This was followed by a remote presentation of the SSRMP president report by **Marta Sans-Merce**, covering various updates from the society.

The first part of the meeting featured several highly informative presentations.

Jenny Bertholet and **Vincent Fave** presented challenging treatment scenarios using Online Adaptive Radiotherapy. Jenny focused on surface-guided breath-hold techniques in the abdominal region on the ETHOS platform, outlining the workflow, the associated technical challenges, and how the team successfully addressed them.



Jenny Bertholet

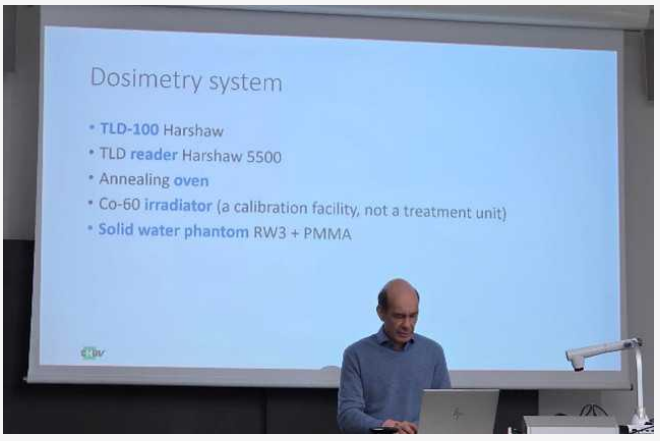
Vincent discussed the limitations of synthetic-CT-based dose calculations when using ART on the ETHOS platform, and pointed out the risks associated with normalization in small volumes and the potential impact on adapted treatment plans.

Vincent Fave

The following presentation by **Thierry Buchillier** covered the results of the 2025 SSRMP dosimetry audit. Overall, the findings were consistent, with a few outliers as expected; the most significant deviation was traced to a phantom setup error.

Two key takeaways emerged:

1. The dosimetry audit may be extended to include 100–300 kV beams, as representatives from treatment centers expressed interest during the meeting.
2. Contrary to our hopes, we are not getting better with time..!



Thierry Buchiller

The coffee break was very welcome and offered a great opportunity to fill up some energy and exchange with colleagues. Thanks to SSRMP once more for sponsoring drinks and snacks!

Adela Ademaj

The second part of the meeting was dedicated to the updates from the working groups.

Among the highlights, **Adela Ademaj** presented the forthcoming Swiss Hyperthermia registry, whose primary objective is to standardize practices and data collection across centers.

Michele Zeverino

Michele Zeverino, after reporting on the activities of the newly setup AI working group, pointed out that all physicists are encouraged to respond to the AI questionnaire until the end of the year, including multiple physicists from the same center.

Damien Racine updated on the work done by the working group focused on Role and tasks of medical physicist in imaging, which is expected to be completed in the first half of 2026.

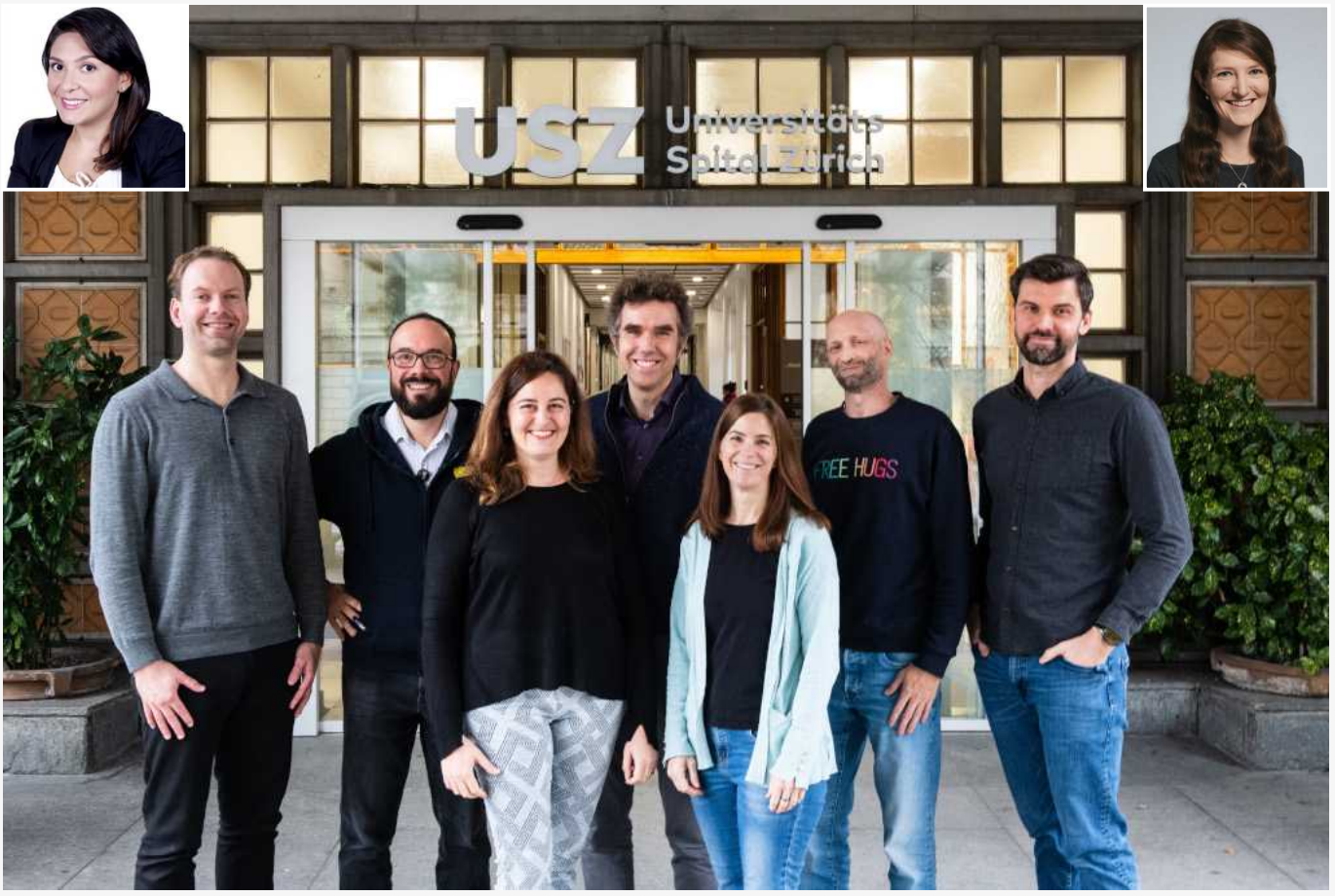
Finally **Silvan Müller** briefly discussed on the situation of the Quality control of TPS working group.

Nikolaos Koutsouvelis
Hôpitaux Universitaires de Genève

Medical physics and radiation protection in diagnostics at the University Hospital Zurich

In the diagnostic domain at the University Hospital of Zurich (USZ), tasks related to radiation protection and medical physics are primarily found not only in the contexts of diagnostic and interventional radiology and nuclear medicine but also in other clinics like cardiology and endoscopy departments.

Together, we provide services across six different sites in two cantons. Our responsibilities cover the full spectrum of radiation protection and medical physics tasks in diagnostics and includes patient dose monitoring, personal dosimetry, management of devices in terms of quality assurance and licenses, supporting labs dealing with open radioactive sources, and serving as an interface between USZ and the Federal Office of Public Health.



Left to right: Niki Papadopoulou, Tobias Pahlen, Davide Cester, Elina Samara, Jonas Ekeberg, Anja Stüssi, Patrick von Schulthess, Gustavo Pamplona, Catherine Paverd

Working at a university hospital also provides a wide range of opportunities to participate in research activities through its interdisciplinarity and strong connection with the University of Zurich, ETH and other major academic centres in Switzerland and abroad.

USZ constitutes a rich melting pot of professions, cultures and working approaches. To this, our team is no exception. Comprising radiographers, engineers and medical physicists, we have a broad base of expertise, which enables us to contribute to various research projects in the imaging domain, examples being microwave breast imaging and optoacoustic sonography.

Teaching is another important aspect of our professional life. For hospital staff, we have developed a continuous education concept with a strong focus on on-site practical training. In 2024 we organized the course "Diagnostic and intraoperative imaging" for medical physicists, which covered a selection of topics useful for the SSRMP certification. In parallel, several team members contribute to university lectures for students in physics and medicine.

The SSRMP continuous education course of 2024

Things can sometimes get a bit tricky when working in such a complex organization, but a visit to our terrace – maybe while having coffee and cake – is the perfect way to relax and reset...

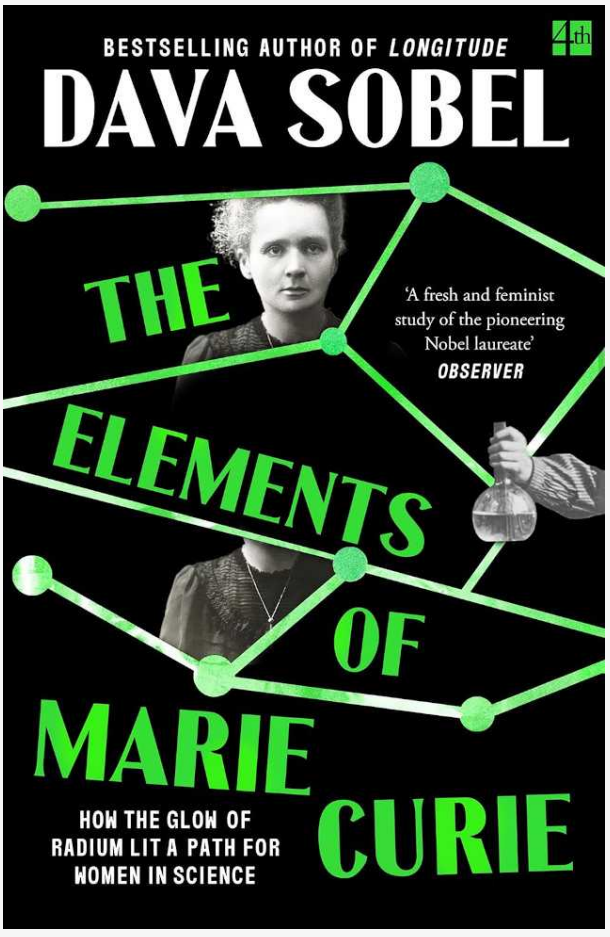
Radiation Protection Unit:
Anja Stüssi, Jonas Ekeberg, Elina Samara, Gustavo Pamplona, Niki Papadopoulou

Department of Nuclear Medicine:
Tobias Pahlen, Patrick von Schulthess

Institute for Diagn. and Interv. Radiology:
Davide Cester, Catherine Paverd

The view from the main terrace of the hospital, the place to go when some fresh air is needed...

Dava Sobel
THE ELEMENTS OF MARIE CURIE (2024)
How the Glow of Radium Lit a Path for Women in Science



In *The Elements of Marie Curie*, Dava Sobel presents a detailed and largely chronological biography of Marie Curie, told through an original and elegant structure based on chemical elements and first names. Each chapter follows the timeline of her life, while pairing an element with a name that reflects a particular period or relationship.

The early chapters are named after Marie Curie herself at different stages of her life , Mania, Marie, Madame Curie, each associated with an element symbolising both her personal evolution and her scientific work. Later chapters bear the names of people she encountered along the way, from family members to collaborators, highlighting the human network that shaped her career.

For medical physicists, the book offers valuable insight into the origins of our fields, as well as into the early days of radiation use, when biological effects and risks were still poorly understood. The biography is extremely detailed and thoroughly documented, which may make it demanding at times, but it provides a rich and accurate historical perspective.

This is a rewarding book for readers willing to take their time, and a powerful reminder of how the discovery of radium influenced both modern medical physics and the place of women in science.

Marie

Quiz

Your best colleague left in 2025. Retirement, a change of life, a sudden passion for mountain goats — they surely had good reasons. Unfortunately, you are now expected to replace the irreplaceable.
To help you settle into your new role (or maybe not), we decided to help you the only way physicists know: by asking precise technical questions, completely out of context.

No clinical scenario. No assumptions. No mercy.

Below are six statements, exactly THREE are correct: you are given two minutes per statement to identify them. *Note: it is in theory possible solve the quiz without consulting official documents.*

Statement 1: Kerma and absorbed dose are identical quantities under charged particle equilibrium.

Statement 2: In TRS-398, the absorbed-dose-to-water calibration factor ND,w is defined at a reference beam quality and converted to the user beam quality using a beam quality correction factor.

Statement 3: In PET imaging, the detected coincidence events originate from annihilation photons and not directly from the emitted positrons.

Statement 4: According to ICRP recommendations, the radiation weighting factor wR for photons depends on photon energy.

Statement 5: ICRU Report 83 directly defines calibration procedures for reference dosimetry in external beam radiotherapy.

Statement 6: The first clinical PET systems became available before helical (spiral) CT scanners were widely used in clinical practice.

Question: Which THREE statements are correct?

Final thought : If you didn't get exactly three right… don't worry. Even I'm not sure I would have been hired under these conditions...

Solution of the game of the September Bulletin:
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Call for Authors

You are all invited to participate in the construction of our Bulletins.
Of desirability are all contributions that could be of interest to members of our society, such as

- Reports of conferences, working group meetings, seminars, etc.
- Reports on the work of various committees and commissions
- Succinct results of surveys, comparative measurements etc.
- Short portraits of individual institutions (E.g. apparatus equipment, priorities of work, etc.)
- Reports on national and international recommendations
- Short Press Releases
- Photos
- Cartoons & caricatures
- Announcement of publications (E.g. books, magazines)
- Announcement of all kinds of events (E.g. conferences, seminars, etc.)
- Short articles worth reading from newspapers or magazines (if possible in the original)
- Member updates (E.g. appointments, change of jobs, etc.)

The easiest way to send your document is as DOCX or ODT document via email to **bulletin@ssrmp.ch**.

Deadline for submissions to Bulletin No. 114 (May 2026): 10.04.2026

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Event Calendar

Feb 19 Porto, P	ESMPE School on Radiation Biology Feb 19 - Feb 21 https://www.efomp.org/index.php?r=regforms
Mar 04 Vienna, A	European Congress of Radiology ECR 2026 Mar 04 - Mar 08 https://www.myesr.org/congress/
Mar 06 St. Gallen	ISROI 2026 Meeting Mar 06 https://isroi.org/wp/isroi-conference-programme-march-6-2026/
Mar 08 Pichl, A	Winterschule Pichl: Strahlentherapie, Schwerpunkt biologische Aspekte Mar 08 - Mar 13 https://www.winterschule-pichl.de/
Mar 15 Pichl, A	Winterschule Pichl: Audiologie bei implantierbaren Hörsystemen Mar 15 - Mar 20 https://www.winterschule-pichl.de/
Mar 15 Pichl, A	Winterschule Pichl: CT & Intervention Mar 15 - Mar 20 https://www.winterschule-pichl.de/
Mar 20 Bern	KSR Seminar "Therapies with Ionizing Radiaton" Mar 20 https://www.bag.admin.ch/de/ksr-taetigkeitsberichte-und-seminare
Apr 23 Tallinn, EE	ESMPE School on Advanced Breast Imaging with AI Apr 23 - Apr 25 https://www.efomp.org/index.php?r=regforms
May 15 Stockholm, SE	ESTRO 2026 May 15 - May 19 https://www.estro.org/Congresses/ESTRO-2026
May 28 **Lausanne**	Swiss Congress of Radiology SCR'26 May 28 - May 30 https://congress.sgr-ssr.ch/
Jun 12 **Bern**	SSRMP AMP Meeting June 12 https://ssrmp.ch
Sep 26 Valencia, E	6th European Congress of Medical Physics ECMP Sep 23 - Sep 26 https://ecmp2026.efomp.org/

And please, if you participate in any conference or meeting, think of writing a few lines or sending a picture for the Bulletin.

THANK YOU!