ESTRO SCHOOL 2023

Practical Course in Dosimetry Audit

17 – 21 April 2023, Teddington, UK.
National Physical Laboratory
Teddington, UK.

The course will provide a unique opportunity to experience a hands-on practical course to learn how to set up, run, analyse and report a dosimetry audit that assesses the dosimetric capability of an institution. The course will give you the possibility to set up a new dosimetry auditing network.

Target group

The course is aimed at physicists who are interested in learning about how dosimetry audit can be developed and how to begin to run multi-centre audits.

Course aim

This advanced course, based at the National Physical Laboratory in London, aims to provide training which will allow participants to develop dosimetry audit, as well as learn how to select and use the most appropriate equipment, report the results and what to do when errors and issues are found. The goal is to give the participants hands-on experience and the opportunity to partake in discussion with experienced auditors, such that they are then in a strong position to take their new skills away and apply them in setting up new dosimetry audits for a variety of reasons. This will be very practical course through the integration of lectures, discussions and real-world scenarios. The program is aimed to be an introduction to the key elements of dosimetry auditing with worked examples and advice, as well as the opportunity to try out techniques under the guidance of experts. The faculty will include experts from standards laboratories, clinical trials quality assurance groups and dosimetry audit networks, who have not only carried out audits themselves but have also developed approaches for validating advanced radiotherapy techniques.

Teaching methods

Approximately (4,5 days/36 h): 23 hours of lectures, 3 hours of tutorials and 10 hours of practical workshops.

Learning outcomes

By the end of this course participants should be able to:

- Understand the clinical relevance and impact of audit
- Select the most appropriate detectors and phantoms
- Make effective measurements in reference and end-to-end conditions
- Determine the appropriate tolerances to set
- Understand how to report the audit results
- Understand what to do when issues are found

Course content

- Clinical relevance of audit
- How to design a good audit
- Choosing the right tools
- Determining the uncertainty budget
- Setting audit tolerances
- Reference dosimetry vs. end-to-end vs. comprehensive audits
- On-site vs. remote vs. virtual audits
- Novel audit methodologies
- Lessons learned from dosimetry audits
- Reporting audit results and follow-up
- Effective film dosimetry
- Using patient specific QA devices
- Reference and small field dosimetry
- End-to-end VMAT/SBRT audit
- Specific TPS planned scenarios
- Reporting on case studies with problems

Prerequisites

Before commencing this course, participants should have good knowledge of radiotherapy dosimetry measurement and calculation

Teaching methods

• 8 hours of lectures
• 18 hours of hands-on practicals
• 4 hours of discussions

Key words

Radiotherapy dosimetry, audit, measurement

.ROADMAP

BEST PRACTICE
MEDICAL PHYSICISTS

COURSE DIRECTOR

Catharine Clark, (UK)

TEACHERS

Eduard Gershkevitsh (EE)
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PROJECT MANAGER

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WORKING SCHEDULE

Monday 17 April:
09:00 – 16:45
Tuesday 18 April:
09:00 – 17:30
Wednesday 19 April:
09:00 – 17:00
Thursday 20 April:
09:00 – 17:00
Friday 21 April:
09:00 – 15:00

LANGUAGE

The course is conducted in English.
No simultaneous translation will be provided.

COURSE ORGANISATION

For any further information, contact ESTRO:
Karolina Kowalska
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TECHNICAL EXHIBITION

Companies interested in exhibition opportunities during this teaching course should contact Karolina Kowalska, Project Manager
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PARTICIPANTS SHOULD REGISTER ONLINE HERE

These pages offer the guarantee of secured online payments.
The system will seamlessly redirect you to the secured website of OGONE (see www.ogone.be for more details) to settle your registration fee.

If online registration is not possible, please contact us:
ESTRO OFFICE: education@estro.org

Registration fees

Please check the registration deadline date on our website

	STANDARD RATE	DESK RATE
In-training members *	€ 500	€ 675
Members	€ 650	€ 775
Non members	€ 800	€ 900

REDUCED FEES Members from emerging countries may register at a preferential rate of 350 Euro. Emerging country fee applies to individuals from low-income and lower-middle-income economies according to the World Bank listing.HERE

ESTRO

ESTRO GOES GREEN Please note that the course material will be available online. No printed course book will be provided during the courses.

Advance registration and payment are required.
On-site registration will not be available.

Since the number of participants is limited, late registrants are advised to contact the ESTRO office before payment, to inquire about availability of places. Access to Moodle and course material will become available upon receipt of full payment.

Insurance and cancellation

The organiser does not accept liability for individual medical, travel or personal insurance. Participants are strongly advised to take out their own personal insurance policies.

In case an unforeseen event would force ESTRO to cancel the meeting, the Society will reimburse the participants fully the registration fees. ESTRO will not be responsible for the refund of travel and accommodation costs.

In case of cancellation, full refund of the registration fee minus 15% for administrative costs may be obtained up to three months before the course and 50% of the fee up to one month before the course. No refund will be made if the cancellation request is postmarked less than one month before the start of the course.

Don't miss the early registration deadline:
18 January 2023