

SGRT at OsloMet's education of RTT's in Norway

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RTT education in Norway

- 3 year (180 ECTS) in radiography
 1 year (60 ECTS) in radiotherapy
- If you want a master after the RTT-education: continue in a master's program in health and technology, specialization in radiation therapy







RTT's function in Norway

- Treatment planning
 - Imaging (CT/MRI)
 - OAR Delineation
 - Forward & Invers dose planning
 - Radiobiology
- Treatment
 - Delivery
 - Patient care
 - Quality assurance
- Treatment follow-up





Developments in radiotherapy goes fast

- New technology
- New way of working
- More precise and accurate treatment



Developments in radiotherapy goes fast

- How to implement SGRT into the education of RTTs?
- We had a problem with access to the Linacs that have SGRT equipment
- Many students and lack of possibility for software in house training

The idea of involving the IGRT suppliers in the education came at ESTRO 2019

- We discussed with the SGRT providers if it was possible to collaborate about the education of RTTs in SGRT.
- Andre Søndergaard at VisionRT thought that would be possible
- Discuss further in autumn 2019
- First class in spring 2020
- Every spring after that.

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- A half day
 - SGRT presentation
 - Hands on training on the linacs together with RTT's in Oslo
- Next half day
 - Software hands on training in groups
 - Kahoot quiz

Software Further collaboration with VisionRT

- Get access to the remote on-line training facilities
- Implement MapRT with RayStation
- Implement DoseRT

- Thanks' to VisionRT that was trilled to help us.
- To Katja and Kim for their enthusiasm
- and Thank you all for your attention.

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SGRT in Norwegian radiotherapy facilities

Presentation of an indepth thesis from Further education in radiotherapy at Oslo Metropolitain University

Berit Bø, University lecturer OsloMet

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"A survey of the implementation and use of SGRT at Norwegian radiotherapy centers. What do the endusers think?"

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Objectives

Overview of SGRT in Norway

Overview on training and implementation of SGRT

Experience, attitude and opinion on training and use of SGRT

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Method

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8 of 10 RT facilities in Norway use SGRT

➤4 centers have SGRT installed on Varian machines, and 3 centers on Electa machines

Responsible for implementation of SGRT: Physicians (6), RTT's (4), Engineer (2), do not know (1), in some departments the responsibility was shared.

SGRT provider in Norwegian facilities

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➢ 6 of 7 agreed that employees could use the system after training.

- Guidelines for implementing SGRT
 Manufacturer (5), Literature(1)
- ➢ 5 respondents agreed that SGRT could be standard treatment and that all linac's should have SGRT.

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Factors that can prevent the implementation of SGRT in the department:

Economy and training of staff

> 4 uker

Do not know

3 uker

1 uke

2 uker

< 1 uke

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Results end user

- Most of the end-users are RTT's
- ➢ 85% use SGRT daily
- 78% use SGRT for patient positioning daily
- 72% use SGRT for motion monitoring daily
- ➢ 56% use SGRT for DIBH daily

"I received SGRT training conducted by":

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≻74% agreed that SGRT has raised the quality of RT

≻70% agreed that SGRT has made patientpositioning more effective and time consuming

≻68% agreed that SGRT has made it easier to discover wrong or missing positioning devices

≻70% agreed that patient monitoring in SGRT makes them feel safer that treatment is delivered more precise "After training I felt confident operating the SGRT system"

"The DIBH function in the SGRT system is more user-friendly than conventional gating"

Advantages and disadvantages

- Motion monitoring (87%)
- Patient positioning (83%)
- Elimination of tattoos (74%)
- Efficiency (65%)
- DIBH model in SGRT system (63%)
- Less need for repeated verification images (57%)
- Ergonomics (52%)

- Signal problems (60%)
- Registration of ROI (41%)
- Connection hardware-software (33%)
- Anatomical changes (31%)
- System shutdown (22%)

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Conclution

	they can use the system independently after completing the training. Most of the respondents show a positive attitude towards SGRT and its
\checkmark	Patient positioning Motion monitoring
\checkmark	The majority of respondents stated that accurate treatment is an advantage of SGRT: Improved efficiency in patient settings Increased quality of radiationtherapy
	Factors creating problems with the SGRT system: Signal problems Registration of ROIs
?	Obstacles to implementation: Economy

A big thank you to the students who carried out the survey; Mari, Christina, Aurora, Guro and Tonje!