

COURSE 3

Running external beam radiotherapy on the virtual radiation therapy simulator (VERT)

Organiser: Holy Cross Cancer Centre, Kielce, Poland



Dates: 26.09.2022 - 30.09.2022

Course description:

General information

The aim of this course is to provide an introduction to external beam radiotherapy, both in theory and practise. The basics of radiotherapy will be explained in a series of lectures. The practical part will involve planning and carrying out radiotherapy of prostate cancer and breast cancer using the virtual radiation therapy simulator (VERT) - https://www.vertual.co.uk/products/vert/.

The learning outcome is a deeper understanding of the principles of planning and performing radiotherapy, with special focus on dose distribution in organs and tissues and on possible consequences of dosimetric and patient positioning errors.

Financial information

The courses may be based on the financial support provided to the beneficiaries by SINFONIA or include a participation fee but only for non-SINFONIA participants. Note that if participation fees are charged, this will be an income of the project and must be declared by the beneficiary during financial reporting. SINFONIA participants cover their own costs associated with travel and lodging.

Logistics

The course will take place at the Jan Kochanowski University, ul. Uniwersytecka 7, 25-406 Kielce (day 1-4) and the Holy Cross Cancer Centre, ul. Prezydenta Stefana Artwińskiego 3, 25-734 Kielce (day 5), Poland. SCO has no lodging facilities; participants should find their own accommodation in one of the hotels in Kielce. Information can be provided upon request.

Application

Please submit your application by email to Janusz Braziewicz at janusz.braziewicz@ujk.edu.pl. Please include the following documents:

- 1. A letter of application with motivation
- 2. A CV with a description of the scientific career
- 3. A supporting letter from the supervisor/head of laboratory (for early career researchers)

The **deadline for applications is September 15th, 2022**. Confirmation of participation will be sent by Saturday, September 20th, 2022.

The number of participants is limited to 6.



Programme:

Monday, 26 September

Morning:	Lecture 1: Basic elements of radiotherapy. Lecturer: Piotr Kedzierawski
	Lecture 2: Introduction to VERT. Lecturer: Tomasz Kuszewski
Afternoon:	Simulation of prostate cancer therapy: delineation of tumour, creating a therapy plan using RaySearch stations: <i>Instructor: Tomasz Kuszewski</i>
Evening free	
Tuesday, 27 September	
Morning:	Lecture 1: Overview of radiotherapy techniques. Lecturer: Katarzyna Wnuk
	Lecture 2: Biological basis of radiotherapy and the problem of second primary cancers Lecturer: Andrzej Wojcik
Afternoon:	Simulation of prostate cancer therapy: implementation and verification using VERT. <i>Instructor: Katarzyna Wnuk</i>

Evening: visit of the Checiny medieval castle and workshop dinner

Wednesday, 28 September

Morning:	Lecture 1: Cancer types and optimal cancer therapies. Lecturer: Piotr Kedzierawski
	Lecture 2: Radiation safety of the patient and the personnel. Lecturer: Pawel Wolowiec
Afternoon:	Simulation of breast cancer therapy: delineation of tumour, creating a therapy plan using RaySearch stations. <i>Instructor: Krzysztof Bulinski</i>
Evening free	
Thursday, 29	September
Morning:	Lecture 1: Use of cancer biomarkers for therapy selection. Lecturer: Artur Kowalik
	Lecture 2: Selection of optimal therapy for a patient and clinical routine. Lecturer: Jacek

Afternoon:Simulation of breast cancer therapy: implementation and verification using VERT.Instructor: Krzysztof Bulinski

Evening free

Friday, 30 September

Holy Cross Cancer Centre, ul. Prezydenta Stefana Artwińskiego 3, 25-734 Kielce

Morning: Visit of the units PET, cancer biomarkers, medical physics and radiotherapy at the Holy Cross Cancer Centre

Common lunch and end of meeting

Sadowski

