ESTRO

Advanced Treatment Planning
30 March – 3 April 2025
Budapest, Hungary

SCIENTIFIC PROGRAMME

Course Directors
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DAY 1 – SUNDAY 30 MARCH

Time		Lecture	Speaker
08:30	08:45	Introduction & structure of the course	GM
08:45	09:00	*Multiple choice questionnaire (MCQ)*	GM
09:00	09:30	Broadening the band width	NB
09:30	09:55	Dose calculation algorithms & their differences in clinical impact	MvH
09:55	10:25	Applying ICRU in treatment planning	NB
10:25	10:55	*Coffee break*	
10:55	11:30	Practical aspects of IMRT planning	GM
11:30	12:00	Basic Radiobiology	NB
12:00	12:25	Planning aspects breast irradiations (1)	DB
12:25	13:25	*Lunch break*	
13:25	13:50	Planning aspects breast irradiations (2)	DB
13:50	14:00	Introduction Case 1: Breast with supraclavicular lymph nodes	DB
14:00	14:05	Planning aspects case 1	GM
14:05	15:05	**Individual planning**	
15:05	15:35	*Coffee break*	
15:35	17:05	**Individual planning**	

DAY 2 – MONDAY 31 MARCH

Time		Lecture	Speaker
08:30	09:10	Molecular imaging in treatment planning	UN
09:10	09:50	Geometrical uncertainties and how to deal with them	MvH
09:50	10:20	*Coffee break*	
10:20	11:20	Discussion planning results from day 1	All
11:20	12:15	MRI in treatment planning	ND
12:15	13:30	*Lunch break*	
13:30	14:10	Particle therapy planning	MS
14:10	14:25	Introduction Case 2: Meningioma	NB
14:25	14:30	Planning aspects case 2	MS
14:30	16:00	**Individual planning**	
16:00	16:30	*Coffee break*	
16:30	17:50	**Individual planning**	

DAY 3 – TUESDAY 1 APRIL

Time		Lecture	Speaker
08:30	08:50	Physical and biological optimisation	GM
08:50	09:20	Relationships between 3D dose distributions and clinical toxicities – Chest	UN
09:20	10:00	Adaptive planning strategies	MvH
10:00	10:30	*Coffee break*	
10:30	12:00	Discussion planning results from day 2	All
12:00	13:00	*Lunch break*	
13:00	13:45	On the Pareto front	MS
13:45	13:55	Introduction Case 3: Lung (stage III NSCLC)	UN
13:55	14:10	Planning aspects case 3	GM
14:10	15:25	**Individual planning**	
15:25	15:55	*Coffee break*	
15:55	16:55	**Individual planning (IMRT)**	

DAY 4 – WEDNESDAY 2 APRIL

Time		Lecture	Speaker
08:30	09:10	Relationships between 3D dose distributions and clinical toxicities - H&N and Pelvis	ND
09:10	09:30	Autoplanning	GM
09:30	09:50	Dose painted planning	MS
09:50	10:20	*Coffee break*	
10:20	11:20	Discussion planning results from day 3	All
11:20	12:00	Robust & probabilistic planning	MvH
12:00	13:10	*Lunch break*	
13:10	13:40	Online planning and library planning	GM
13:40	13:55	Introduction Case 4: Bilateral oropharynx	ND
13:55	14:10	Planning aspects case 4	MS
14:10	15:25	**Individual planning (IMRT)**	
15:25	15:55	*Coffee break*	
15:55	17:10	**Individual planning (IMRT)**	

DAY 5 – THURSDAY 3 APRIL

Time		Lecture	Speaker
08:30	09:00	Image registration & dose accumulation	MvH
09:00	09:30	Physicist's perspective	GM
09:30	10:00	Doctor's perspective	NB
10:00	10:25	*Coffee break*	
10:25	11:25	Discussion planning results from day 4	All
11:25	12:10	*Multiple choice questionnaire (MCQ)*	All
12:10	12:30	Wrap-up and conclusion	All