

11-15 June 2023 Bucharest, Romania

**Course Directos** Bradley Pieters (BP) Faculty

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# SCIENTIFIC PROGRAMME

#### DAY 1 - SUNDAY 11 JUNE

Time	Lecture	Speaker	Chair
13.00 - 13.15	Welcome & Introduction	BP	
13.15 - 13.35	Enthusiastic about BT/Quiz - winner		
13.35 - 14.15	Radioactivity & Isotope characteristics	ÅCT	
14.15 - 14.55	<b>Bronchus &amp; Oesophagus</b> GEC-ESTRO recommendations, Indication, tools and requirements, performing application, hazards, results	ASE	
14.55 - 15.25	Coffee break		BP
15.25 - 16.05	<b>Time dose patterns</b> – Characteristics of LDR-PDR-HDR, radiobiological aspects, a/b-ratio and half time of repair, EQD2 concept	РН	
16.05 - 16.35	<b>Anal canal</b> GEC-ESTRO recommendations, Indication, tools and requirements, performing application, hazards, results	BP	
16.35 - 17.05	<b>Rectum</b> GEC-ESTRO recommendations, Indication, tools and requirements, performing application, hazards, results	Guest lecture : A. Stewart	
17.05 - 17.20	Bladder Video	РН	



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# DAY 2 - MONDAY 12 JUNE

Time	Lecture	Speaker	Chair	
08.30 - 08.50	Demonstration of prostate contouring homework	ASE/BP		
08.50 - 09.20	<b>Implantation rules</b> Implantation and dosimetric rules (Paris system), ICRU 58. From 2D to 3D dosimetry	сс		
09.20 - 10.00	<b>Prostate permanent implantations</b> GEC-ESTRO recommendations, indication, tools and requirements, performing application, hazards, results	BP		
10.00 - 10.30	<b>Prostate temporary implantations</b> – GEC-ESTRO recommendations, indication, tools and requirements, performing application, hazards, results	РН	_ ÅCT	
10.30 - 11.00	Coffee break			
11.00 - 11.30	<b>Prostate treatment planning</b> Automated treatment plan / Building up a plan, optimisation, peripheral positioning of sources, avoiding high urethra and rectum dose, source seperation	ВР		
11.30 - 12.10	<b>Skin</b> GEC-ESTRO recommendations, Indication, tools and requirements, performing application, hazards, results	JG		
12.10 - 12.15	Nasal mould video	JG		
12.15 - 13.15	Lunch break			
13.15 - 13.55	<b>Dose calculation and calibration</b> Basics of dose calculation, dose gradients, TG 43 and limitations	ÅCT		
13.55 - 14.15	Keloids	ASE		
14.15 - 14.30	Keloids video	ASE/JG		
14.30 - 15.30	<b>Practical session</b> Bronchus, oesophagus, prostate & skin applicators	Faculty		
	<b>Physics session</b> Practical issues on dose calculation	ÅCT	– ASE	
15.30 - 16.00	Coffee break	e break		
16.00 - 17.00	<b>Practical session</b> Prostate TP	Faculty		
17.00 - 18.00	Recontouring prostate and support from teachers	Faculty		



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# DAY 3 – TUESDAY 13 JUNE

Time	Lecture	Speaker	Chair
08.30 - 09.00	Demonstration of prostate recontouring	ASE/BP	
09.00 - 09.30	<b>Breast brachytherapy</b> GEC-ESTRO recommendations, Indication, tools and requirements, performing application, hazards, results	JG	_
09.30 - 10.15	<b>Endometrial (primary and postoperative</b> ) GEC-ESTRO recommendations, Indication, tools and requirements, performing application, hazards, results	РН	
10.15 – 10.45	Coffee break		
10.45 - 11.15	<b>Dose optimisation</b> Manual / Geometric / Volume / Graphical / Inverse (penalties, weight function, dwell time gradient)	ÅCT	сс
11.15 - 11.45	<b>Breast APBI</b> GEC-ESTRO recommendations, Indication, tools and requirements, performing application, hazards, results	JG	
11.45 – 11.55	Breast Video	JG	
11.55 - 12.05	<b>Uveal melanoma</b> GEC-ESTRO recommendations, Indication, tools and requirements, performing application, hazards, results	ASE	_
12.05 - 12.35	<b>Radiation safety \ Radiation protection</b> HVL, distance, inverse square law, controlling systems of the machines, Geiger teller, contamination, safe radioactive sources, requirements treatment rooms	ÅCT	
12.35 - 13.35	Lunch break		
13.35 - 14.05	Postradiation recurrences Prostate Breast Possibilities of reirradiation, results, complications	PH & JG	
14.05 - 14.25	<b>Management of toxicities</b> Conservative medical treatment, coagulation, hyperbaric oxygen	ASE	
14.25 - 15.00	Case discussion - Prostate - Breast - Anal canal	Faculty	BP
15.00 - 15.30	Coffee break		
15.30 - 16.40	Case discussion - Prostate - Breast - Anal canal	Faculty	



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## DAY 4 – WEDNESDAY 14 JUNE

Time	Lecture	Speaker	Chair
08.30 - 08.50	Demonstration of cervix contouring homework	ASE/CC	
08.50 - 09.30	GEC-ESTRO recommendations and ICRU reporting Concept of CTV <sub>IR</sub> and CTV <sub>HR</sub> , ICRU 89 report	сс	
09.30 – 10.00	<b>Uncertainties</b> All kind of uncertainties, applicator reconstruction errors, contouring uncertainties, source positioning errors, OAR movements, systematic errors, random errors, interfraction uncertainties, interapplication uncertainties, magnitude of uncertainties	ÅСТ	
10.00 - 10.30	<b>Cervix/Techniques</b> GEC-ESTRO recommendations, Indication, tools and requirements, performing application	сс	JG
10.30 - 11.00	Coffee/Tea break		
11.00 - 11.30	Cervix/Results Hazards, results, complications	РН	
11.30 - 12.10	<b>Cervix treatment planning</b> – Applicator localisation on CT and MR, Applicator library, Optimisation	BP	
12.10 - 12.40	<b>Vagina</b> Vagina cancer, recurrence endometrial cancer, indication, tools and requirements, performing application, hazards, results	сс	
12.40 - 13.40	Lunch break		
13.40 - 14.10	<b>DVH</b> How to use DVH, differential DVH, cumulative DVH, D98, D90, V100, D2cm3	JG	
14.10 - 14.40	<b>Vulva</b> Indication, tools and requirements, performing application, hazards, results	сс	
14.40 - 15.40	Practical session - Breast and Gyn applicators	Faculty	PH
15.40 - 16.10	Coffee/Tea break		
16.10 – 17.10	Practical session – Cervix TP	Faculty	
17.10 - 18.10	Recontouring cervix and support from teachers	Faculty	



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#### DAY 5 – THURSDAY 15 JUNE

Time	Lecture	Speaker	Chair
08.30 - 09.00	<b>Demonstration of cervix recontouring example</b> – Demonstration of participants variances after recontouring	ASE/CC	
09.00 - 09.30	<b>H &amp; N cancer</b> GEC-ESTRO recommendations, indications, tools and requirements, performing application	JG	
09.30 - 09.35	Lip Video	JG	
09.35 - 09.40	Nasopharynx Video	JG	
09.40 - 10.10	Postradiation recurrences Gynaecology Head & Neck Possibilities of reirradiation, results, complications	CC & JG	РН
10.10 - 10.40	Coffee/Tea break		
10.40 - 11.00	Paediatrics/Orbita RMS Orbit and H&N (AMORE)	BP	
11.00 - 11.20	<b>Paediatrics/Limb, prostate, Gyn</b> Limb sarcomas, Sarcoma botryroides, prostate sarcoma	сс	
11.20 – 11.35	Video 3D printing	BP	
11.35 - 11.55	Final remarks & Conclusion		