

Course Director

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Faculty

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Contouring Administrator

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Guest teacher

Alexandra Stewart (UK)

SCIENTIFIC PROGRAMME

DAY 1 – SUNDAY 17 MARCH

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

DAY 2 – MONDAY 18 MARCH

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

DAY 3 – TUESDAY 19 MARCH

Time	Lecture	Speaker	Chair
08.30 – 09.00	Demonstration of prostate recontouring	ASE/BP	CC
09.00 – 09.30	Breast brachytherapy GEC-ESTRO recommendations, Indication, tools and requirements, performing application, hazards, results	JG	
09.30 – 10.15	Endometrial (primary and postoperative) GEC-ESTRO recommendations, Indication, tools and requirements, performing application, hazards, results	PH	
10.15 – 10.45	<i>Coffee break</i>		
10.45 – 11.15	Dose optimisation Manual / Geometric / Volume / Graphical / Inverse (penalties, weight function, dwell time gradient)	ÅCT	
11.15 – 11.45	Breast APBI GEC-ESTRO recommendations, Indication, tools and requirements, performing application, hazards, results	JG	
11.45 – 11.55	Breast Video	JG	
11.55 – 12.05	Uveal melanoma GEC-ESTRO recommendations, Indication, tools and requirements, performing application, hazards, results	ASE	
12.05 – 12.35	Radiation safety \ Radiation protection HVL, distance, inverse square law, controlling systems of the machines, Geiger teller, contamination, safe radioactive sources, requirements treatment rooms	ÅCT	
12.35 – 13.35	<i>Lunch break</i>		
13.35 – 14.05	Postradiation recurrences Prostate Breast Possibilities of reirradiation, results, complications	PH & JG	BP
14.05 – 14.25	Management of toxicities Conservative medical treatment, coagulation, hyperbaric oxygen	ASE	
14.25 – 14.55	Case discussion - Prostate - Breast - Anal canal	Faculty	
14.55 – 15.25	<i>Coffee break</i>		
15.25 – 15.55	Case discussion - Prostate - Breast - Anal canal	Faculty	
16.00 – 16.30	Case discussion - Prostate - Breast - Anal canal	Faculty	

DAY 4 – WEDNESDAY 20 MARCH

Time	Lecture	Speaker	Chair
08.30 – 08.50	Demonstration of cervix contouring homework	ASE/CC	JG
08.50 – 09.30	GEC-ESTRO recommendations and ICRU reporting Concept of CTV _{IR} and CTV _{HR} , ICRU 89 report	CC	
09.30 – 10.00	Uncertainties 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	ÅCT	
10.00 – 10.30	Cervix/Techniques GEC-ESTRO recommendations, Indication, tools and requirements, performing application	CC	
10.30 – 11.00	<i>Coffee/Tea break</i>		
11.00 – 11.30	Cervix/Results Hazards, results, complications	PH	
11.30 – 12.10	Cervix treatment planning – Applicator localisation on CT and MR, Applicator library, Optimisation	ML	
12.10 – 12.40	Vagina Vagina cancer, recurrence endometrial cancer, indication, tools and requirements, performing application, hazards, results	CC	
12.40 – 13.40	<i>Lunch break</i>		PH
13.40 – 14.10	DVH How to use DVH, differential DVH, cumulative DVH, D98, D90, V100, D2cm3	JG	
14.10 – 14.40	Vulva Indication, tools and requirements, performing application, hazards, results	CC	
14.40 – 15.40	Practical session - Breast and Gyn applicators	Faculty	
15.40 – 16.10	<i>Coffee/Tea break</i>		
16.10 – 17.10	Practical session – Cervix TP	Faculty	
17.10 – 18.10	Recontouring cervix and support from teachers	Faculty	

DAY 5 - THURSDAY 21 JUNE

Time	Lecture	Speaker	Chair
08.30 - 09.00	Demonstration of cervix recontouring example - Demonstration of participants variances after recontouring	ASE/CC	PH
09.00 - 09.30	H & N cancer 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	
10.10 - 10.40	<i>Coffee/Tea break</i>		
10.40 - 11.00	Paediatrics/Orbita RMS Orbit and H&N (AMORE)	BP	
11.00 - 11.20	Paediatrics/Limb, prostate, Gyn Limb sarcomas, Sarcoma botryoides, prostate sarcoma	CC	
11.20 - 11.35	Video 3D printing	BP	
11.35 - 11.55	Final remarks & Conclusion		