

INHOLLAND Academy

Hands-on course

Image-Guided Radiation Therapy

Coordinators:

Iain Bruinvis (course director),
Ben Mijnheer, Emmy Lamers and Jelle Scheurleer

Locations:

INHolland University of Applied Sciences, Haarlem
Netherlands Cancer Institute – Antoni van Leeuwenhoek Hospital, Amsterdam
Vrije Universiteit medical centre, Amsterdam
Radiotherapeutic Institute Stedendriehoek en Omstreken, Deventer
Erasmus medical centre, Rotterdam
THE NETHERLANDS

Dates:

Tuesday 15-JUN-10 – Saturday 19-JUN-10



Tuesday 15 June 2010	INHolland Haarlem	Introduction to IGRT and image fusion	Faculty
09:00-09:30		Registration	
09:30-09:45		Welcome and introduction to the course	Iain Bruinvis
09:45-10:30	lecture	Advanced imaging for 3D treatment planning	Jan Wiersma
10:30-11:00	coffee break		
11:00-10:30	lecture	Advanced imaging for in-room verification	Ben Mijnheer
11:30-12:30	lecture	Geometrical uncertainties and margins	Niek van Wieringen
12:30-13:30	lunch break		
13:30-13:45	lecture	Introduction to the workshop	Ben Mijnheer
13:45-15:15	hands-on	Workshop image fusion – part 1	Marcel van Herk
15:15-15:45	coffee break		
15:45-17:15	hands-on	Workshop image fusion – part 2	Marcel van Herk
17:15-18:30		Welcome drink	

Wednesday 16 June 2010	INHolland Haarlem	IGRT in clinical practice	Faculty
09:00-09:30		Evaluation of the workshop	Ben Mijnheer
09:30-10:30	lecture	Overview of different IGRT approaches for head and neck cancer	Coen Rasch
10:30-11:00	coffee break		
11:00-12:00	lecture	Optimisation of irradiation techniques of breast cancer applying advanced imaging technology	Nicola Russell
12:00-12:30	lecture	Patient setup verification using stereoscopic imaging – part 1	Johan Cuijpers
12:30-13:30	lunch break		
13:30-14:00	lecture	Patient setup verification using stereoscopic imaging - part 2	Johan Cuijpers
14:00-15:00	lecture	Overview of different IGRT approaches for lung cancer	John van Sörnsen de Koste
15:00-15:30	coffee break		
15:30-16:30	lecture	Overview of different IGRT approaches for prostate cancer	Marco van Vulpen

Thursday 17 June 2010	Erasmus MC Rotterdam	CyberKnife	Faculty
14:45-15:00	welcome coffee	Conference room (KS-22)	
15:00-15:10		Introduction to Erasmus MC – Daniel den Hoed	Mischa Hoogeman
15:10-15:30	lecture	IGRT for prostate cancer	Theodore Mutanga
15:30-15:50	lecture	IGRT for liver cancer / Non-rigid registration	Eliana Vasquez Osorio
15:50-16:20	lecture	Introduction to CyberKnife	Mischa Hoogeman
16:30-16:50	lecture	Clinical applications of CyberKnife	Noëlle van der Voort van Zijp
17:00-17:45	demo/hands-on Group 1	QA Motion Table and Synchrony Demo Treatment Planning	Erasmus MC team
	demo/hands-on Group 2	Treatment Planning QA Motion Table and Synchrony	
17:45-18:15	coffee break	Evaluation of demo/hands-on exercises	Mischa Hoogeman Ben Mijnheer

Friday 18 June 2010	RISO Deventer	TomoTherapy	Faculty
14:00-14:30	welcome coffee		
14:30-15:15	lecture	Introduction to TomoTherapy	André Minken
	lecture	Clinical applications of TomoTherapy	Paul Bouma
15:15-16:15	demo/hands-on Group 1 / Group 2	TomoTherapy treatment planning TomoTherapy QA	RISO team
16:30-17:30	demo/hands-on Group 2 / Group 1	TomoTherapy treatment planning TomoTherapy QA	RISO team
17:30-18:00	coffee break	Evaluation of demo/hands-on exercises	André Minken Iain Bruinvis

Saturday 19 June 2010	VUmc/NKI-AVL	CT/kV-CBCT/kV-fluoroscopy/EPID	Faculty
09:30-10:30	demo-1 (Vumc) demo-1 (NKI-AVL)	Group-1: 3D/4D imaging of a phantom with a moving target Group-2: CBCT-scanning of a moving phantom	Johan Cuijpers / RTT Anja Betgen / Maddalena Rossi
10:30-11:00	coffee break		
11:00-12:00	demo-2 (VUmc) demo-1 (NKI-AVL)	Group-1: Stereoscopic patient positioning Group-2: Comparison CBCT images (3D) with EPID orthogonal images (2D)	Johan Cuijpers / Ingrid Kuijper Anja Betgen / Maddalena Rossi
12:00-13:00	lunch break	Move to other hospital	
13:00-14:00	demo-3 (NKI-AVL) demo-3 (VUmc)	Group-1: CBCT scanning of a moving phantom Group-2: 3D/4D imaging of a phantom with a moving target	Anja Betgen / Maddalena Rossi Johan Cuijpers / RTT
14:00-15:00	demo-4 (NKI-AVL) demo-4 (VUmc)	Group-1: Comparison CBCT images (3D) with EPID orthogonal images (2D) Group-2: Stereoscopic patient positioning	Anja Betgen / Maddalena Rossi Johan Cuijpers / Ingrid Kuijper
15:00-15:30	coffee break	Evaluation of demo/hands-on exercises	Johan Cuijpers/ Ben Mijnheer
15:30-16:00		Evaluation of the course	Iain Bruinvis / Jelle Scheurleer