



Joint ICTP-IAEA Advanced School on Quality Assurance and Dosimetry in Mammography | (smr 3248)

Monday, 22 October 2018

08:00 - 17:00 Day 1

08:30 Free Time for those visiting the Finance Office 1h0'

A shuttle bus will run from the Adriatico Guesthouse to the Finance Office for one hour. 8:30-9:30. All participants must first register upon arrival at the Guesthouse Reception Desk.

09:30 Course Presentation and Pre-course test 1h0

10:30 Coffee Break 30'

11:00 Clinical aspects of breast imaging 45'

Speaker: Anita Spezzacatene

11:45 Basic principles of mammography 45'

Speaker: Ioannis Sechopoulos (Radboud University Medical Center, Nijmegen, The Netherlands)

12:30 Lunch Break 1h0

13:30 Introdution to Quality 45'

Speaker: Harry Delis (IAEA)

14:15 Role of the medical physicist in the quality process 45'

Speaker: Hilde Bosmans (Katholieke Universiteit Leuven, Belgium)

15:00 Coffee Break 30'

15:30 Role of the radiographer in the quality process 45'

Speaker: Marina De Stefano (Udine Hospital)

16:15 Mammography image receptors and effects on image quality 45'

Speaker: Hilde Bosmans

Tuesday, 23 October 2018

09:00 - 17:00 Day 2

 $09:00 \qquad \textbf{Components of a QA programme for mammography} \ 45'$

Speaker: Hilde Bosmans

09:45 Daily QC in mammography (including film processing, darkroom and monitors QC) 45'

Speaker: Paola Bregant (Trieste Hospital)

10:30 Coffee Break 30'

11:00 Image Quality Evaluation Metrics and phantoms 45

Speaker: Paola Bregant (Trieste Hospital)

11:45 **Dosimetry in mammography** 45

Speaker: Ioannis Sechopoulos

12:30 Lunch Break 1h0'

13:30 Hospital Practical 3h30'

Wednesday, 24 October 2018

09:00 - 17:00 Day 3

09:00 Digital mammography: Post-processing and deep learning 45'

Speaker: Ioannis Sechopoulos

09:45 **Contrast detail analysis** 45' Speaker: Hilde Bosmans

10:30 Coffee Break 30'

11:00 Breast tomosynthesis: Physics 45'

Speaker: Ioannis Sechopoulos

11:45 **Breast tomosynthesis: Quality Assurance** 45'

Speaker: Hilde Bosmans

12:30 Lunch Break 1h0'

13:30 Computer Exercises:(I) Evaluation of Image Quality; (II) Evaluation of Patient Dose 3h30'

Speaker: Experts and Local staff

Thursday, 25 October 2018

09:00 - 17:00 Day 4 09:00 Digital mammography: PACS and DICOM 45' Speaker: Annalisa Trianni (Udine Hospital) 09:45 Phase contrast mammography 45' Speaker: Renata Longo (University of Trieste) 10:30 Coffee Break 30' 11:00 Breast CT 45' Speaker: Ioannis Sechopoulos 11:45 Synchrotron radiation in medical imaging 45' Speaker: Renata Longo (University of Trieste) 12:30 Lunch Break 1h0' Practical session: Phase Imaging. Visit to Elettra Synchrotron Facility 3h30' 13:30 Speaker: Experts and Local staff

Friday, 26 October 2018

15:00

09:00 - 17:00	Day 5	
	09:00	Controversies and benefits of screening 45'
		Speaker: Ioannis Sechopoulos
	09:45	Managing Quality for a national breast screening programme 45'
		Speaker: Hilde Bosmans
	10:30	Coffee Break 30'
	11:00	Remote and automated tools for QC 30'
		Speaker: Harry Delis (IAEA)
	11:30	Discussion - Q&A 1h0'
		Speaker: All Participants
	12:30	Lunch Break 1h0'
	13:30	Discussion - Q&A 45'
		Speaker: All Participants
	14:15	Course evaluation - Post course test 45'
		Speaker: IAEA Staff

Meeting closure - Certificates 45'

Speaker: All Participants