

Joint ICTP-IAEA Advanced School on Quality Assurance and Dosimetry in Mammography



22 - 26 October 2018
Trieste, Italy

Further information:
Activity URL: <http://indico.ictp.it/event/8341/smr3248@ictp.it>

Breast imaging through mammography, either for diagnostic or screening purposes, is the single most efficient tool to timely and accurately identify breast cancer, enhancing the efficiency of any subsequent therapy. This is well understood throughout the world and mammography is an important part of radiology practices worldwide. However, there are special requirements, both in terms of image (small contrast differences between malignant and healthy tissue) and dose (asymptomatic patients, radiosensitivity of the breast tissue), that require special attention and very high quality standards for mammography. Training of medical physicists to adequately support breast imaging is crucial, as they are the competent professionals to develop and maintain quality and dosimetry activities.

The purpose of the training course (lectures and hands-on training) is to assist medical physicist working in diagnostic radiology and more specifically in mammography to:

- Understand the framework of Quality Assurance required to adequately support breast imaging.
- Understand basic Quality Control requirements for Mammography.
- Familiarize with image quality and artefact evaluation in mammography (image quality metrics, observer studies).
- Understand the importance of dosimetry in mammography and familiarize with dosimetry measurements.
- Carry out hands-on practice and analyze subsequent quality control and dosimetry results.
- Understand the differences of performance measurements for digital vs analogue systems.
- Familiarize with other modern breast imaging techniques (tomosynthesis, breast CT, synchrotron mammography, etc)

Director:

H. Delis, IAEA

Local Organizer:

R. Padovani, ICTP

Lecturers:

H. Bosmans, Belgium
P. Bregant, Italy
R. Longo, Italy
R. Padovani, Italy
I. Sechopoulos, The Netherlands

How to apply:

Online application:
<http://indico.ictp.it/event/8341/>

Female scientists are encouraged to apply.

Grants:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

Deadline:

15 July 2018



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