

EUTEMPE-RX

High dose X-ray procedures in Interventional Radiology and Cardiology: establishment of robust protocols for patient and staff dose

2018, 25-29th June
UDINE - Italy

➤ Day 1

2018, June 25th – Monday

- 09:15 Registration
- 10:00 Welcome and Introduction
- 10:30 *Coffee Break*
- 11:00 Introduction to the Interventional Cardiology Procedures
 G. Bernardi (Pordenone, Italy)
- 11:45 Introduction to the Interventional Radiology Procedures
 A. Pellegrin (Udine, Italy)
- 12:30 *LUNCH BREAK*
- 13:30 Radiobiology
 TBC
- 14:30 Radiation safety as part of the QA program: taking into account the new European Directive
 A. Trianni (Udine, Italy)
- 15:30 *Coffee Break*
- 16:00 Angiographic Equipment – An overview
 N. Marshall (Leuven, Belgium)
- 17:00 Cone Beam CT with Flat Detector C-arms
 N. Paruccini (Monza, Italy)

 Day 2

2018, June 26th – Tuesday

- 08:30 New trends in system design and optimization strategies, including implementation of XR27
L. Desponds (GE HealthCare, France)
- 09:30 New trends in system design and optimization strategies, including implementation of XR27
B. Hoornaert (Philips HealthCare, The Netherlands)
- 10:30 *Coffee Break*
- 11:00 New trends in system design and optimization strategies, including implementation of XR27
M. Lendl (Siemens Healthineers, Germany)
- 12:00 Round Table with Manufacturers
- 13:00 *Lunch Break*
- 14:00 General overview of QC protocols
A. Trianni (Udine, Italy)
- 14:30 QC Protocol: the Italian Report
N. Paruccini (Monza, Italy)
- 15:00 QC Protocol: the Italian Report
H. Bosmans (Leuven, Belgium)
- 15:30 QC Protocol: the Italian Report
N. Marshall (Leuven, Belgium)
- 16:00 *Coffee Break*
- 16:30 QC in Detail: Source and Dosimetry Tests
A. Trianni (Udine, Italy)

 Day 3

2018, June 27th – Wednesday

- 09:00 QC in detail: image quality 1. Review of image quality concepts: from physics principles to qualitative image quality criteria
N. Marshall (Leuven, Belgium)
- 10:30 *Coffee Break*
- 11:00 QC in detail: image quality 2. Test objects (aim, components, use, limitations), tools to evaluate test object images, data processing using different tools and interpretation of results, design a task specific test object
N. Marshall (Leuven, Belgium)
- 12:00 QC in detail: image quality 3. The low contrast detectability test
N. Paruccini (Monza, Italy)
- 13:00 *Lunch Break*
- 14:00 Practical: Image Quality Evaluation
N. Paruccini (Monza, Italy) and N. Marshall (Leuven, Belgium)

 Day 4

2018, June 28th – Thursday

- 09:00 Patient Dose in Interventional Radiology: Concepts, Standards and Tools
A. Trianni (Udine, Italy)
- 10:30 *Coffee Break*
- 11:00 Dose Tracking Systems for Interventional Procedures
Qaelum, Belgium
GE HealthCare, France
Physico, Italy
- 13:30 End User's Experience
TBC
- 13:00 *Lunch Break*
- 14:30 Trigger levels and Follow up
A. Trianni (Udine, Italy)
- 15:30 *Coffee Break*
- 16:00 Reference levels. What do they mean, why do we need and how to establish
R. Padovani (Udine, Italy)
- 16:30 Complexity Factors
R. Padovani (Udine, Italy)

 Day 5

2018, June 29th – Friday

- 09:30 Staff dosimetry protocols
R. Padovani (Udine, Italy)
- 10:30 *Coffee Break*
- 11:00 Status of Eye lens dosimetry and new limits
R. Padovani (Udine, Italy)
- 12:30 Free time for revision
- 16:00 Assessment