

The European Medical ALARA network (EMAN)

Presentation at the 13th European ALARA network workshop
Oscarsborg Fortress, Norway 7-10th June 2011

Still a project.. but soon a network

- Three year project
- Supported by the European Commission
- To form a network in order to improve optimisation in the medical sector

The consortium

- Bundesamt für Strahlenschutz (Federal Office of Radiation Protection), BfS, Germany
- Centre d'étude sur l'Evaluation de la Protection dans le domaine Nucléaire, (Nuclear Protection Evaluation Center), CEPN, France
- European Federation of Organisations for Medical Physics (EFOMP)
- European Federation of Radiographer Societies (EFRS)
- European Radiation Dosimetry Group (EURADOS)
- European Society of Radiology (ESR)
- Strålsäkerhetsmyndigheten (The Swedish Radiation Safety Authority), SSM, Sweden

Steering committee

Renato Padovani, WP leader

Hubert Ducou le Pointe, WP leader

Christian Leafure, guest

Caroline Schieber

Peter Vock

Anders Frank

Annemarie Schmitt-Hannig

Stelios Christofides

Filip Vanhavere

Anja Almén



Graciano Paulo

**Eero Kettunen, repr. of the
EC Working party Med**

Jürgen Griebel, WP leader

Products some examples

- Discuss and communicate current issues
- Identify the need for new standards and guidelines
- Extract and inform about good examples

The Network

- Appropriate organisation
- Attractive to participate
- Show efficiency

Three working groups

- CT
- Interventional radiology
- X-ray outside the radiology department

CT

- Technique development
 - E.g. wide x-ray beams and detectors – measurement of dose
- Need to develop diagnostic reference levels
- Establish core team in the hospitals

CT

- Technique development:
 - Research and standardisation institutions
- Develop diagnostic reference levels
 - Authorities, EC and professional organisations
- Establish core team in the hospitals
 - Hospitals

Interventional radiology

- Need to measure staff dose – including dose to the lens

- Follow up of patients with high skin dose

Interventional radiology

- Need to measure staff dose – including dose to the lens
 - Research inst., hospitals, vendors, authorities
- Follow up of patients with high skin dose
 - Professional societies, hospitals etc.
- Professional societies already in EMAN
 - Cardiovascular and radiological Society of Europe CIRSE, European Society of Cardiology ESC, European Society of neuroradiology ESNR

X-ray used outside the radiology department

- Limited knowledge of activities
- Limited information on staff and patient dose
- Procedures performed by staff with no or limited knowledge about radiation

X-ray used outside the radiology department

- Limited knowledge of activities
 - gastroenterology, orthopaedics, urology, vascular surgery, neurosurgery and anaesthesiology
- Limited information on staff and patient dose
 - Larger surveys
- Procedures performed by staff with no or limited knowledge about radiation
 - Education and training / referral criteria

Optimisation

- Involves many different stakeholders
- Optimisation is a complex issue
- Team work

Success factors

- Involve appropriate organisations and individuals
- Open to ideas from all stakeholders
- Attractive products
- Communication tools
- Get financial stability

EUROPEAN WORKSHOP ON OPTIMISATION OF RADIATION PROTECTION IN MEDICINE



Vienna, Austria
7-9 June 2012



The aim of this European workshop is to disseminate outcomes from the EMAN project, involve new stakeholders and discuss future actions of the Network

Programme committee :

- Anja ALMEN (SSM),
- Stelios CHRISTOFIDES (EFOMP),
- Hubert DUCOU LE POINTE (ESR),
- Jürgen GRIEBEL (BfS),
- Renato PADOVANI (EFOMP),
- Graciano PAULO (EFRS),
- Caroline SCHIEBER (CEPN),
- Annemarie SCHMITT-HANNIG (BfS),
- Filip VANHAVERE (EURADOS),
- Peter VOCK (ESR).