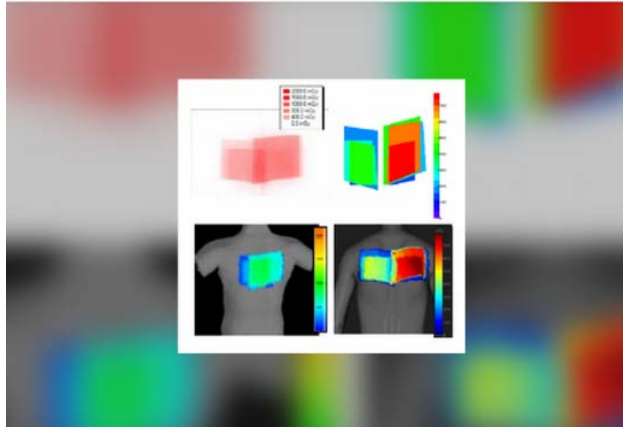


10th EURADOS Webinar: Accuracy and quality control of skin dose mapping software: results from the VERIDIC project



Programme

- Introduction to EURADOS WG12 and VERIDIC project (*Željka Knežević*)
- Performance and accuracy of skin dose mapping software: Results from the VERIDIC project (*Jérémie Dabin*)
- EFOMP's protocol for quality control of angiographic systems and Skin dose mapping software (*Andy Rogers*)



EURADOS WG12

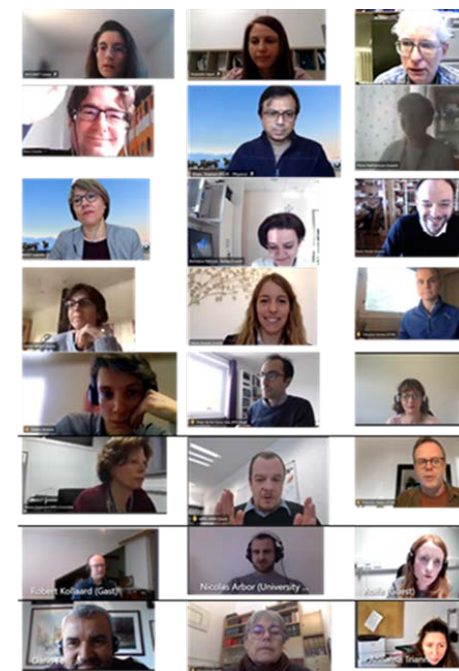
Dosimetry in medical imaging

Chair: Željka Knežević, RBI, Croatia

[Email: zknez@irb.hr](mailto:zknez@irb.hr)

Secretary: Eleftheria Carionou, EEAE, Greece

[Email: eleftheria.carinou@eeae.gr](mailto:eleftheria.carinou@eeae.gr)

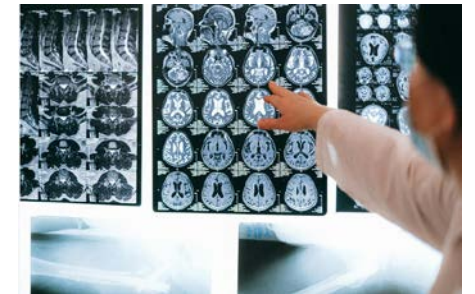
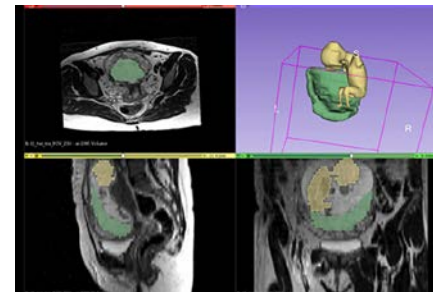
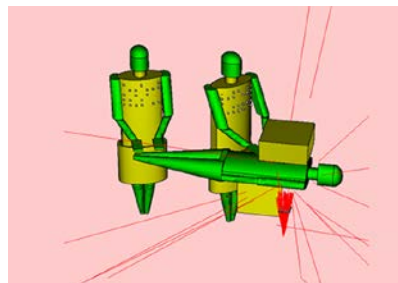
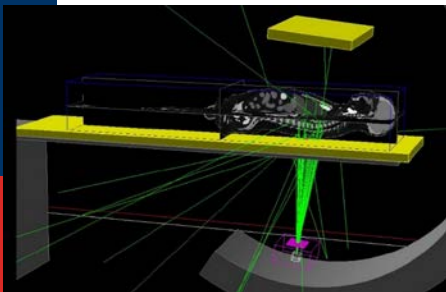


<https://eurados.sckcen.be/working-groups/wg12-dosimetry-medical-imaging>

Aim of the Working Group:
Assessment and improvement of patient and staff dosimetry in the medical field, excluding radiotherapy.

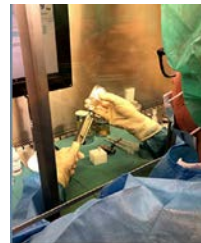
Main objectives

- WG12 is focused on patient and staff dosimetry in the medical field; diagnostic and interventional radiology, and nuclear medicine, excluding RT
- The overall aim of the WG12 is focused on dosimetry harmonization, evaluation and development of dosimetry methods, preparation of recommendations, intercomparisons, literature reviews and measurement campaigns to assess occupational and patient exposure.
- WG 12 is actively collaborating with **EFOMP** and **EANM** on several tasks.
- Members of WG 12 include experts from the medical physicist's community, reference and research laboratories, dosimetry services and regulators.



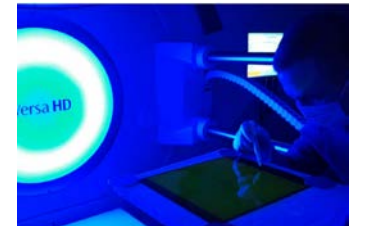
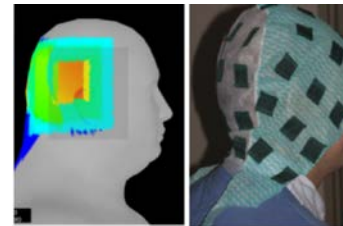
SG1 Staff dosimetry *(Isabelle Clairand, IRSN)*

- **Task 1 - Report on individual monitoring in IR, general recommendations** *(Task Leaders: I. Clairand and E. Carinou)*
- **Task 4 - Intercomparison of eye lens dosimeters,** *(Task leader: I. Clairand)*
- **Task 5 - Eye lens dosimetry recommendations guidelines/double dosimetry,** *(Task leader: E. Carinou, M. Ginjaume)*
- **Task 7 - Doses received by personnel involved in complex interventional procedure,** *(Task leader: P. Ferrari)*
- **Task 8 - Extremity doses in nuclear medicine focused on the new radionuclide,** *(Task leader: R. Kollaard)*
- **Task 9 - Occupational exposure during the management, preparation and administration of "new" radiopharmaceuticals** *(Task leader: P. Ferrari)*



SG 2 Patient dosimetry *(Marta Sans Merce, HUG)*

- **Task 1 - Skin dose in interventional radiology** *(Task leader: J. Dabin)*
- **Task 2 - Personalized dose in radiotherapy jointly with WG9,** *(Task leader: T. Siiskonen)*
- **Task 3 - Review of guidelines/recommendations on use of out-of-field shielding in X-ray imaging** *(Task leader: M. Sans Merce)*
- **Task 4 - Dosimetry in pregnancy,** *(Task leader, D. Faj)*
- **Task 5 - Organ doses in interventional radiology** *(Task leader, N. Arbor)*





VERIDIC

Validation and Estimation of
Radiation skin Dose in
Interventional Cardiology

CONCERT-funded project

10 Partners

Coordinator SCK•CEN

Duration: 24 months

Starting Date: 01/02/2018

End Date: 01/02/2020



Objectives

- Reviewing existing SDM software products
- Identification of harmonization needs in RDSRs for MSD calculations and reporting
- Comparing SDM software capabilities and accuracy
- Investigating feasibility of commissioning and quality control protocols
- Investigating skin dose determinants for dose optimisation





Jérémie Dabin, Belgian Nuclear Research Centre

Performance and accuracy of skin dose mapping software: Results from the VERIDIC project



Andy Rogers, Nottingham University Hospitals NHS Trust

EFOMP's protocol for quality control of angiographic systems and Skin dose mapping software