

WG-28 (Physics)

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WG-28 (Working Group) Profile

Date of Last Update: 2011-12-08

Scope:

- To develop or consult on CPs and Supplements requiring detailed expertise on physics and/or the needs and work of medical physicists.
- To serve as a *liaison* body to facilitate including data relevant to the physics community in DICOM objects.

Roadmap:

- Definition of details for recording Organ Dose
- Methods for capturing and recording operator dose (esp. XA)
- Evaluation of the accuracy of dosimetric data registered in the RDSR
- Definition of a Medical Physics Interface
- Enhance the X-Ray Angio Dose SR to allow skin dose maps
 - better description of the equipment geometry, add per-frame gantry/table movement, add an absolute patient coordinate model with respect to the equipment, better description of the patient shape...
- Acquisition, storage and application of improved calibration data (e.g. for QIBA/quantitation)
- Monitor the work of AAPM/EFOMP working/task groups

Short-Term Objectives:

- Establish and organize the new workgroup
- Establish a working relationship with AAPM Informatics Committee
- Establish a working relationship with EFOMP DICOM WG (Leader: Annalisa Trianni)
- Collaborate with WG-02 on the CR/DR Dose work
- Collaborate to enhance the X-Ray Dose SR to address further needs in dose control and tracking, e.g.:
 - skin dose map
 - operator dose
 - ambient dose

- dose calibration correction
- Collaborate with IEC on the new Work Item Proposal for Radiation Dose Documentation
- Report on new physics initiatives that impact the DICOM Standard (AAPM/EFOMP Task Groups, etc.)
- Seek a vendor co-chair.

Current Status:

The Working group was authorized on 2011-12-01. The Working Group is forming in Q1-2 2012.

Current Work Items:

None

Risks

- Physics wish-list could get too far ahead of vendor and user expectations
- Might not be able to recruit enough physicists, equipment vendors & service providers for the resulting specifications to be effective, balanced and adopted.

Challenges and Opportunities

- Address the risks

Relationships to Other Standards

WG-28 members involved with IEC Subcommittees 62B and 62C will report on the impact of new and revised standards.