



1300 North 17th Street, Suite 900
Arlington, VA 22209, USA
+1-703- 475-9217
<http://dicom.nema.org>
dicom@medicalimaging.org

MINUTES

DICOM WORKING GROUP TWENTY EIGHT (Physics Strategy)

Date: March 5, 2014

Place: ESR
Vienna, Austria

Members Present

AAPM (American Association of
Physicists in Medicine)
ACR (American College of Radiology)
EFOMP/ESR (European Federation for
Medical Physics/European Society of Radiology)
GE Healthcare
JIRA/Toshiba
Pixel Med Publishing (P)
Siemens Healthcare

Represented by

Donald Peck
William Pavlicek
Annalisa Trianni
Francisco Sureda
Makoto Suzuki
David Clunie
Heinz Blendinger

Others present

Eric Gingold (P)
Stephen Vastagh (P)

AAPM
DICOM General Secretary

(P) = by phone and/or web meeting

Presiding Officers:

Annalisa Trianni Co-Chair
Donald Peck Co-Chair

Secretary:

Alberto Torresin

1. Opening

- The meeting was called to order at 10.00 on March 4.
- Participants identified themselves and their employers. A quorum was present.
- Members reviewed and approved the agenda as proposed.
- Members reviewed the anti-trust rules.

2. Joint AAPM/EFOMP White Paper on Patient Dose determination from radiation exposures during diagnostic and interventional studies

The draft of the white paper prepared by TG246 (Fluoroscopy) was reviewed and discussed. The Reference Air Kerma (CK) definition and the methodology to evaluate the calibration of CK have been discussed.

Particular attention has to be paid to the different phantoms used for estimating skin dose..

Actions:

- to find a second author for session C;
- to approach different topics to be used in skin dose evaluation with a pyramidal approach (input, info per section, output);
- people interested to collaborate in writing to email William Pavlicek

The state of art of TG246 paper on CT was reviewed and discussed.

Action:

- people interested to collaborate in writing to email William Pavlicek

3. WG-02 Projection X-Ray joint discussion

- Members discussed the progress of the AAPM TG (61, 180, 238) working on the 3D-CARms with Volumetric Capability and explore the impact on the RDSR.
- Eurados, AAPM and EFOMP are working in common area of projection X-Ray; more coordination is desirable.
- DICOM WG2 members reviewed the updates and the remaining open issues and created a new version sup167_draft21.doc.

4. Review Dose SR extensions and potential requirments for Patient Dose SR

From 2.30 pm to 4.30 pm, Eric Gingold, David Clunie and Stephan Vastagh attended the tconference planned.

The documents concerning “data useful for Refinement of Fluoroscopy”, “data useful for Refinement of CT” and the PRDSR template outline for dose estimation was presented by Donald Peck.

5. Supplements and CP Review

- Members reviewed the status of CPs related to the scope of WG-28; no new CPs were discussed.

CP#	Description	Status	Assignee	Submission Date
1349	Link from still picture to video	Assigned	Revet, B.	10/18/2013
1347	Add a new attribute to describe the direction of a scan relative to the patient	Assigned	Revet, B.	10/18/2013
1346	Add Table Information to X-Ray 3D IODs	Assigned	Revet, B.	10/18/2013
1345	Add Related UPS Sequence	Assigned	O'Donnell, K.	10/18/2013
1343	Add Patient Photo to Patient Identification Modules	Assigned	Horn, Robert	10/18/2013
1342	Extend Image Type for Breast X-Ray Image IODs	Assigned	(blank)	10/18/2013
1338	Move Body Substance from Type to Category for Segmentation	Assigned	Clunie, D.	10/18/2013
1337	Add Isocenter Position to MR/PET/Enhanced CT/MR/PET and RT Equipment Correlation to Enhanced CT	Assigned	Clunie, D.	10/18/2013
1336	Use LOINC code for Key Image in Template	Assigned	Clunie, D.	10/18/2013
1335	Clarify SR Frame of Reference for SCOOD3D and TCOORD IODs	Assigned	Clunie, D.	10/18/2013
1332	Standardization of DIXON Image and Frame Types	Assigned	Revet, B.	10/18/2013
1331	Treatment Time in RT Plan	Assigned	Busch, U	8/16/2013
1319	Frame Of Reference Reliability	Assigned	Busch, U	8/12/2013
1288	Add templates and code definitions for QAPV support	Assigned	Busch, U	2/8/2013
1278	Additional cardiac image types for enhanced CT	Assigned	Clunie, D.	11/8/2012
1238	Inappropriate for Mandatory Synchronization Module in Enhanced US Volume	Assigned	Revet, B.	6/6/2012
1227	Fix Estimated Dose Saving attribute	Assigned	O'Donnell, K.	3/30/2012
1217	Add Extensible SR SOP Class for new types of Content Item	Assigned	Clunie, D.	3/27/2012
1203	PDR Pulse Details in RT Brachy Session Record	Assigned	Busch, U	1/26/2012
1196	Add phantom-specific Total DLP Values to allow for Head and Body in same RDSR scope of accumulation	Assigned	Clunie, D.	1/26/2012
1189	Add usage of Temporal Position Time Offset to Per Frame content Macro as needed for Enhanced MR and Enhanced CT objects.	Assigned	Revet, B.	8/16/2011
1115	Add Dose Reference Point codes for CR/DR	Assigned	O'Donnell, K.	1/18/2011

- Members reviewed the Supplements related to the scope of WG-28:

Sup #	Description	Status
121	Modality Procedure Plan and Protocol Storage	Public Comment
124	Communication of Display Parameters	Public Comment
147	Second Generation RadioTherapy	Draft
156	Volumetric Presentation State	Draft
159	Radiopharmaceutical Administration Radiation Dose Reporting	Public Comment
160	Second Generation RadioTherapy - Patient Positioning and Workflow	Draft
164	Contrast Agent Administration SR Storage	Draft

165	Breast Projection X-Ray Image Storage SOP Class	Letter Ballot
167	X-Ray 3D IOD Informative Annex	Draft

- Members reviewed the Sup 121 “Modality Procedure Plan and Protocol Storage” in detail and it was decided to write a new supplement based on XA use cases. A White Paper will be prepared including guidelines for the preparation of such Supplement. The White Paper will be distributed to WG-02 and WG-28 asking for comments, examples and use cases. A draft version of the Supplement will be prepared by April 30 to be discussed at SIIM meeting in May. **Action: Annalisa Trianni**

6. Operator Dose SR Work Item

- Members reviewed any additional requests for an Operator Dose SR: some companies propose Operator Dose Structured Reports in their system
- Members agreed to ask manufactures to meet with WG28 concerning the operator Dose SR work and to invite them officially to share the info for discussion and to collaborate in the creation of a DICOM Operator Dose Structured Report (**Action: Annalisa Trianni**)

7. Reports from liaisons with other groups and organizations

- Donald Peck and Bill Pavlicek reported on the AAPM activities.
- Donald Peck reported on the MITA Interventional group activities.
- Annalisa Trianni reported on the DICOM liaison group inside EFOMP.

8. Planned Meeting Dates in 2014

- May 2014 (SSIM) in Long Beach. WG-02 (one day) and joint meeting with WG-28 (two days).
- September or October 2014 in Erlangen. To be confirmed
- December, RSNA. To be confirmed

Reported by: Alberto Torresin, Secretary

Reviewed by legal counsel: Clark Silcox