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| Description: Description: O:\LOGOS\DICOM\DICOM LOGO - MEDIUM.tif | 1300 North 17th Street, Suite 1752  Arlington, VA 22209, USA  +1-703- 841-3281  [http://dicom.nema.org](http://dicom.nema.org/)  [**dicom@medicalimaging.org**](mailto:dicom@medicalimaging.org) |

# ***MINUTES***

## **DICOM WORKING GROUP TWO**

## (Projection Radiography and Angiography)

**Date: October 29 & 30, 2013**

**Place:** DIN

Berlin, Germany

**Members Present Represented by**

ACR/AAPM Donald Peck

EFOMP Alberto Torresin

ESR Annalisa Trianni (Secretary)

GE Healthcare Francisco Sureda

Siemens Healthcare Heinz Blendinger

Philips Healthcare Bas Revet

**Members Absent Represented by**

AAPM William Pavlicek

**Alternate Voting Representatives, Observers, or Guests Present:**

None

**Presiding Officer: Francisco Sureda, Chair**

**Secretary: Annalisa Trianni**

### Opening

* The meeting was called to order at 10.00 on October 29.
* Members identified themselves and their employers. A quorum was present.
* Members reviewed the agenda that was approved as issued.
* The minutes from the meeting of July 02 – 03, 2013 Munich (GE) (see document [*WG-02-2013-07-02-Min-Rev.docx*](http://medical.nema.org/Dicom/minutes/WG-02/2013/WG-02-2013-07-02-Min-Rev.docx)) has been reviewed and approved.

### CP Review

* Members reviewed the advances of the CPs and new CPs related to the scope of WG-02.

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| Number | Name | Submitted | Assigned | Coded Status | Comments/Actions for WG-02 |
| **CP 1223** | Additional Items for Dose SR (by IEC PT 61910-1) | Heinz Blendinger | Revet, B. | Final Text | Members reviewed the Final Text after IEC changes in July. A new version CP1223\_ft2.doc has been created and posted on the server. |
| **CP 1282** | Value Multiplicity of Positioner Increments in 3D X-Ray and Breast Tomo | David Clunie | Clunie, D. | Voting Package | Members reviewed the updates after reviews with WG-15 and WG-06 and discussed WG-15 comment about the new Defined Terms. A new version of the CP has been created (**cp1282\_06.doc**) and uploaded to the server. It will be sent to WG-15. (**Action: Francisco Sureda**) |
| **CP 1285** | CP\_fs\_IrradiationEventUIDinX-Ray3D\_01.doc | Francisco Sureda | Revet, B. | Voting Package | Members reviewed the updates after reviews with WG-15 and WG-06. A new draft CP will be created to clarify the usage of Organ Dose in all the mammography objects (projections, tomo and Dose SR)including Breast Tomosynthesis and submitted to WG-28 for review. **Action: Francisco Sureda** |
| **CP 1301** | Clarify Distance Source to Patient in Mammo and CR | Clunie, D. | Clunie, D. | Final Text | Members reviewed the updates after WG-06 review. Definitions of *Center of Field of View* and *Distance Source to Patient* has not been accepted. No further action. |
| **CP 1319** | Frame Of Reference Reliability | Francisco Sureda, et al. | Ulrich Busch | Assigned | Reviewed by WG-06. WG-06 requests for White Paper. To ask Sven Flossman for the last version. |
| **CP 1337** | Add Isocenter Position to MR/PET/Enhanced CT/MR/PET and RT Equipment Correlation to Enhanced CT | Clunie, D. | Clunie, D. | Assigned | Members reviewed this new CP. No issues. |
| **CP 1342** | Extend Image Type for Breast X-Ray Image IODs | Janet Keyes |  | Assigned | Members reviewed this new CP. No issues. |
| **CP 1346** | Add Table Information to X-Ray 3D IODs | Francisco Sureda | Revet, B. | Assigned | To be followed. |
| **CP 1347** | Add a new attribute to describe the direction of a scan relative to the patient | J. Pohlhammer | Revet, B. | Assigned | Members reviewed this new CP. No issues. |
| **New** | CP\_br107\_Isocenter Constraint | Revet, B. |  | n/a | WG-02 reviewed it in July 2013. To submit to WG-06 in January. |
| **New** | Clarify the meaning of X-Ray Filter in Dose SR | Annalisa Trianni |  | n/a | Based on TID1003b (DICOM Standard 2011 + CP1077) clarify the meaning of Filters. Not needed. A change (not clarification) is necessary. Wait for TG246 to publish the White Paper. |
| **New** | Clarify the meaning of PARTIAL in Dose SR | Francisco Sureda |  | n/a | Need to add a clarification of the meaning of PARTIAL RDSR. On Hold. |

* A new CP to add the term “flat filter” for all kind of projection X-Ray based image headers, but CT, will be created. **Action: Heinz Blendinger**.
* CP 1299 (*cp1299\_ft.doc*) has been reviewed. No further action.
* Members reviewed CP 1317 (*cp1317\_01.doc*). No issues.

### Supplement 167: X-Ray 3D Angiographic Informative Annex

* The new version Draft 18 *Sup167\_X-Ray\_3D\_Angiographic\_Informative\_Annex\_Draft18.doc* is in progress and will be finished by the next WG-06 meeting in January 2014. **Action: Francisco Sureda**.

### Supplement 165: Breast Projection X-Ray Image Storage SOP Class

* Members reviewed the response of WG-15 to the comments sent in August. Members agree with the changes. No further action.

### Dose Structured Report

* Patient Dose White Paper AAPM TG246: Members reviewed the contribution of WG-02 members to chapters 2 and 4 of the White Paper on Patient Dose of the AAPM TG246. Members also reviewed the “Appendix B” (for Fluoroscopy). Recommendations for a solution in Dose SR will be suggested in chapter 2. **Action: Heinz Blendinger**.
* Extension of Dose SR header: Postponed after creation of the Patient Radiation Dose SR
* Annex AA of Part 17: Not discussed in this meeting.

### Supplement 121: Detailed Protocol Settings

* Members reviewed MITA publication XR27 and discussed the different implementation between CT and XA. A supplement describing a set of parameters and associated details for performing a particular procedure will be started by the next meeting.

### Follow –Up Topics

* Cone Beam 3D: A new EFOMP WG and a separate AAPM WG have been created to follow this topic.
  + C-Arms with Volumetric Capability and its impact on the RDSR: no new fields need to be added to XA RDSR for encoding dose in CBCT acquisitions.
  + WG-02 reccomends groups asking for dose encoding in DICOM to work in conjunction with WG-28. To be followed up by WG-02.
  + Cone Beam 3D for radiotherapy: to be followed up by WG-02.
* Operator Dose: Members reviewed the progresses in WG-28 about the Operator Dose WIR. To follow up.
* Injector Record SR: Members reviewed the progresses of the WG-06 Contrast SR Ad-hoc group – Supplement 164. Presented at WG06 last week. Slow progresses due to editorial work. To be followed by WG-02 once comments are requested.
* X-Ray Angiography Application cases for the Multi-dimensional Presentation State: Members reviewed the progresses of the the WG-11 on the Multi-Dimensional Presentation State – Supplement 156. Presented at WG06 last week. Progressing slowly. To be followed by WG-02 once comments are requested.
* Promotion of the Enhanced XA/XRF SOP Class and Radiation Dose SR SOP Class: Members discussed what is needed. An email will be sent to WG-29 to explore opportunities of promotion. (**Action: Francisco Sureda**)
* IHE REM Profile: No updates since last meeting.

### Reports from liaisons with other groups and organizations

* **Annalisa Trianni** reported on the DICOM liaison group inside EFOMP.
* **Donald Peck** and **William Pavlicek** reported on the AAPM activities.
* **Annalisa Trianni** and **Donald Peck** reported about the first amend of the XR-27 produced by MITA X-Ray Interventional that will be published next December during RSNA. **Francisco Sureda** reported about the request from the FDA to the MITA Interventional WG to consider implementation of real-time estimation of peak skin dose. MITA/IWG would like to develop a liaison with DICOM and AAPM TG246 in order to understand the state-of-the-art and prepare an answer to the FDA. Members agree that this request will be forwarded to WG-28.
* **Heinz Blendinger** reported on the IEC Interventional activities related to radiation dose reporting. Publication of IEC 61910-1 is expected for March 2014.

### WG-02 Report to DSC

* **Francisco Sureda** will prepare the WG-02 Report for the DSC meeting on Dec 5, 2013 at RSNA.

### New Work Items for WG-02

* No new Work Items..

### Planned Meeting Dates in 2014

* **March 2014** (ECR) in ***Vienna***. To be confirmed. **Action: Annalisa Trianni**
* **May 2014** (SSIM) in ***Long Beach***. WG-02 (one day) and joint meeting with WG-28 (two days). To be confirmed. **Action: Donald Peck**
* **September - October 2014** in ***Erlangen***. To be confirmed. **Action: Annalisa Trianni**

Refer to the document *NextMeetingsWG-02\_2014\_rev01.pptx* for a more detailed planning of the next meetings and interactions with the DSC, WG-06 and WG-28.

### New Business

* No new business.

### Adjournment

The meeting was adjourned at 16.45 on October, 30

Reported by: Annalisa Trianni, Secretary

Reviewed by legal counsel: CRS 2013-11-15