MINUTES
DICOM WORKING GROUP TWO
(Projection Radiography and Angiography)

Date: February 12 and 13, 2013

Place: Disney’s Coronado Springs Resort
Lake Buena Vista (Orlando Area)
32830 Florida, USA

Presiding Officer: Francisco Sureda, Chair

Members Present

Represented by
American College of Radiology
Donald Peck
European Society of Radiology
Annalisa Trianni, Secretary
GE Healthcare
Francisco Sureda
Philips Healthcare
Bas Revet
Siemens Healthcare
Heinz Blendinger
American Association of Physics in Medicine
William Pavlicek

Members Absent

Voting Representative
European Federation of Organisations for Medical Physics
Renato Padovani

1. Preliminary Events

- The meeting was called to order at 09.15.
- Members identified themselves and their employments. A quorum was present.
- Members reviewed the agenda that was approved as such.
- The minutes from the meetings of October, 18–19, 2013 Paris (FR) (see document WG-02-2012-10-18-Min.docx) has been reviewed and approved.
2. **CP Review**

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

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Submitted</th>
<th>Assigned</th>
<th>Coded Status</th>
<th>Comments/Actions from WG-02 October 2012 meeting</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP 1127</td>
<td>Add fields for Organ Dose to Dose SR</td>
<td>Kevin O’Donnell</td>
<td>Kevin O’Donnell</td>
<td>Assigned</td>
<td>Agreement that WG-28 should address this CP. To follow up by WG-02.</td>
</tr>
<tr>
<td>CP 1173</td>
<td>Clarify basis for Total Fluoro Time and Total Acquisition Time in XA Dose Report</td>
<td>Kevin O’Donnell</td>
<td>Kevin O’Donnell</td>
<td>Assigned</td>
<td>Change definitions according to CP1254 and submit for the next WG-06 meeting (Action: Francisco Sureda)</td>
</tr>
<tr>
<td>CP 1201</td>
<td>Correct Calibration Factor CI Definition (TID 10002)</td>
<td>Blendinger/ WG-02</td>
<td>Nolte, Björn</td>
<td>Final text</td>
<td>No further action.</td>
</tr>
<tr>
<td>CP 1217</td>
<td>Add Extensible SR SOP Class for new types of Content Item</td>
<td>Clunie, D.</td>
<td>Clunie, D.</td>
<td>Assigned</td>
<td>No further action.</td>
</tr>
<tr>
<td>CP 1218</td>
<td>Correct further errors in UCUM codes and related meanings</td>
<td>Blendinger</td>
<td>Revet, B.</td>
<td>Letter Ballot</td>
<td>To be improved (editorial changes) by WG-15. To be follow up by WG-02.</td>
</tr>
<tr>
<td>CP 1223</td>
<td>Additional Items for Dose SR (by IEC PT 61910-1)</td>
<td>Blendinger</td>
<td>Revet, B.</td>
<td>Voting Package</td>
<td>New version submitted to be reviewed by WG-06. To follow up.</td>
</tr>
<tr>
<td>CP 1253</td>
<td>Clarify Recommended Viewing Mode Usage</td>
<td>Blendinger</td>
<td>Revet, B.</td>
<td>Letter ballot</td>
<td>No further action.</td>
</tr>
<tr>
<td>CP 1254</td>
<td>Correct Definition of Irradiation Duration</td>
<td>Blendinger</td>
<td>Revet, B.</td>
<td>Letter ballot</td>
<td>No further action.</td>
</tr>
<tr>
<td>CP 1285</td>
<td>CP_fs_IrradiationEvent UiDinX-Ray3D_01.doc</td>
<td>Sureda</td>
<td>Revet, B.</td>
<td>Assigned</td>
<td>Reviewed by WG-02. Version 02 to be prepared. To be brought to the attention of WG15 and WG22. (Action: Francisco Sureda)</td>
</tr>
<tr>
<td>CP 1284</td>
<td>CP_fs_CorrectTypeIn X-Ray3D_01.doc</td>
<td>Sureda</td>
<td>Revet, B.</td>
<td>Assigned</td>
<td>To follow up by WG-02.</td>
</tr>
<tr>
<td>CP 1282</td>
<td>cp_dac214_VMOIFoo_ tionerIncrements.doc</td>
<td>Clunie, D.</td>
<td>Clunie, D.</td>
<td>Assigned</td>
<td>Definitions of increment to be modified. Keep one value if increments are constant, use angles in the per-projection sequence otherwise. (Action: Francisco Sureda)</td>
</tr>
</tbody>
</table>


- Members reviewed the **sup167_X-Ray_3D_Angiography_Informative_Annex_Draft12.docx**. Minor changes discussed in this meeting have to be made by February 22 and sent to the group for review. (Action: Francisco Sureda). Comments to be sent by February 28. (Action: all). Depending on the comments received, a Tcon could be organized on March 20 to have a new version ready for submission to WG-06 in April.

4. **Frame Of Reference**

- No updates since last meeting.

5. **Dose Structured Report**

- **Dose SR extension to enable skin dose calculation in X-Ray Projection**: Members reviewed and updated the document produced jointly with the WG-28 containing the list of data needed, and not stored in the RDSR at present (see **DICOM_WG28_PDSR Base Info_WG-02_2013_02_13**) “The CP 1223 “Additional Items for Dose SR (by IEC PT 61910-1)”, which includes information useful
for skin dose calculation, is already in Voting Package. A new CP for additional data to Dose SR will be created. (Action: Francisco Sureda)

- **Patient Dose SR:** Not discussed in this meeting.

6. **Injector Record SR**
   - The document *Contrast use workflows analysis Interventional Radiology DRAFT 01* has been discussed. It will be updated with most recent comments made by WG-06 Contrast SR Ad-hoc. (Action: Francisco Sureda).

7. **DICOM Conference 2013**
   - The oral presentation proposed by Francisco Sureda on Current developments in DICOM WG-02 Projection Radiography and Angiography was accepted. The presentation will be prepared by February 22 for review. (Action: Francisco Sureda). Comments needed for February 26. (Action: all).

   - Members discussed the potential needs for “DICOM-izing” the new MITA standard Interventional X-ray Standard XR 27-2012 User QC. The group concluded that there is no need to create additional attributes in the current DICOM standard. The MITA standard does not require to implement all the data exchange in DICOM, only some data is required to be exchanged by using the definitions of the DICOM 2011 standard.

9. **Follow–Up Topics**
   - **X-Ray Angiography Application cases for the Multi-dimensional Presentation State:** A joint meeting with WG-11 took place on Wednesday morning, hosted by WG-11. Refer to WG-11 meeting minutes for more details.
   - **Promotion of the Enhanced XA/XRF SOP Class and Radiation Dose SR SOP Class:** Members reviewed the dataset produced by Heinz Blendinger. It will be shared with Francisco Sureda and Bas Revet for review before uploading it to the public DICOM ftp area.
   - **IHE REM Profile:** No new CPs since last meeting.
   - **Guidelines on how to collect dose data in DICOM:** No updates since last meeting. WG-02 will not follow up the topic in the future.
   - **Detailed protocol settings:** WG2 will continue to follow up the Sup121 “Modality Procedure Plan and Protocol Storage”. This supplement was not reviewed during this meeting.
   - **Ambient Dose in X-Ray Projection:** No updates since last meeting. To follow up by WG-02.
   - **Operator Dose:** No updates since last meeting. To follow up by WG-02.

10. **Reports from liaisons with other groups and organizations**
    - Annalisa Trianni reported on the DICOM liaison group inside EFOMP.
    - Annalisa Trianni and Donald Peck reported on the DICOM WG-28 “Physics”.
• Donald Peck reported on the AAPM activities.
• Heinz Blendinger and Francisco Sureda reported on the MITA X-Ray Interventional activities related to the physics mode proposal.
• Heinz Blendinger and Annalisa Trianni reported on the IEC Interventional activities related to radiation dose reporting.

11. New Work Items for WG-02
• No new Work Items.

12. Planned Meeting Dates in 2013
• July 2 and 3, 2013 in Munich. Room confirmed.
• October 29 and 30, 2013 in Berlin. Room confirmed.

Refer to the document NextMeetingsWG-02_2013_rev02.pptx for a more detailed planning of the next meetings and interactions with the WG-06, WG-11 and WG-28.

13. New Business
• No new business.

14. Adjourn
The meeting was adjourned at 17.10 on February, 13.

Submitted by: Annalisa Trianni
Secretary

Reviewed by: CRS 2013-02-20