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MINUTES

WORKING GROUP TWENTY-ONE (Computed Tomography)

Version 2

Date & Time: Wednesday, May 25, 2022
12:00-1:00pm US Eastern Time

Presiding Officers: Till Hoenig, Co-Chair, Vendor
Shuai Leng, Co-Chair, User
wg21chairs@dicomstandard.org

Secretary: Shayna Knazik, DICOM/MITA

Voting Members Present:	**Represented by:**
AAPM/Mayo Clinic	Shuai Leng
DICOM/MITA	Shayna Knazik
GE Healthcare	Steve Nichols
Johns Hopkins University	Mahadevappa Mahesh
Philips	Shlomo Gotman
Siemens Healthineers	Till Hoenig

Voting Members Not Present:	**Represented by:**
AAPM	Kai Yang
*ACR	Paul Armstrong Hill
Canon	Kevin O'Donnell
*PixelMed Publishing	David Clunie
United Imaging Healthcare	Adam Chandler

*Not present at two consecutive meetings and therefore not counted for quorum during this tcon

Observers Present:	**Represented by:**
AAPM	Nick Bevins
Agiliad Technologies	Amol Patil

1. Opening

1.1. The teleconference was called to order and a quorum was not present.
1.2. DICOM antitrust and patent guidelines were reviewed.
1.3. The agenda was reviewed and approved.
1.4. The minutes from 20 April 2022 were reviewed and approved.

2. WG-21 Correction Proposals (CPs) Status

CP#	Submission Date	Submitter	Affects DICOM Parts	Assignee	Status	Description	Coded status
1915	2019-02-16	Hoenig	Part 3	Nolte	Suspended	Adapt definition of FocalSpot (0018,1190) to comply with IEC60336 section 8.3	n/a
<New>		Hoenig	Parts 3/16		New	Publicly document and specify vendor specific CT Image Quality Reference Parameter as a SQ	
2189	2021-10-26	Nichols	Parts 3 and 17	Nichols	Assigned	Add Multi-Energy Image type attribute to the Enhanced CT Image Storage SOP Class	Assigned
2208	2022-01-06	Nichols	Part 16	Nichols	Assigned	Include additional cardiovascular terms to Part 16	Assigned
2209	2022-01-20	Hoenig	Part 3	Nolte	New / submitted to WG-06	Correct Table C.11.1.1.2.1-1 Recommended Rescale Type Assignments for Multi-energy CT Image	Assigned
2232	2022-03-21	Hoenig	Part 16	Nolte	New	Correct/add Body Part Examined Defined Terms in correspondence Table L-1	Assigned
2233	2022-03-21	Hoenig	Part 16	Nolte	New	Switch to SNOMED Code for PHANTOM	Assigned

3. Create a context group for calcium scoring – CP-2208 from Steve Nichols

3.1. Steve reported that he updated this CP based on WG-06 feedback, including the addition of CID 3014 context. He is still waiting on feedback from WG-01.

4. Image Type for Multi-Energy Enhanced CT images – CP-2189 from Steve Nichols

4.1. Steve incorporated the WG-21 informal survey results to this CP. He also did some clean-up to the tables. There was no further feedback so Steve will add this to the next WG-06 meeting folder.
4.2. Action: Steve will upload this CP into the June WG-06 meeting folder.

5. Additional public attribute for CT images, addressing the context "(User selectable) parameter that determines the tube current time product relevant for the image quality"

5.1. Shuai briefly discussed the results of the parameter consolidation, but he will continue to work on this item before the June WG-21 call. He will reference the vendor survey spreadsheet and reach out to Nick and Mahesh for additional feedback.
5.2. Action: Shuai will try to map the AAPM lexicon and the vendor results for the tcon.

6. Dose Management: Patient Protocol (Black Image) vs. RDSR

6.1. The group continued discussion of Kevin's draft Dose Display CP for IHE Rad which describes the "Summary Display Option" and the "EMR Extract Option". Till asked for feedback on the mapping table he provided which maps user required parameters against current RDSR structure.
6.2. It was concluded that the RDSR should contain all the information that would be needed for a Display Option to replace the patient protocol in the future.
BUT: The additional public attribute referenced in agenda point 5 shall also be added to the RDSR as this information would also be crucial there.
Discussion can be continued on the next call when Kevin is on the line. Nick will also run this chart by WG-02/28 at their upcoming meeting on June 6th and 7th.
6.3. Action: Till to extend the CP (point 5) with regard to RDSR for the June teleconference and will upload it to the meeting folder.

7. WG-06 requested WG-21 to review technical content of HL7 imaging procedure radiation exposure project

https://confluence.hl7.org/display/IMIN/Radiation+Dose+Summary+for+Diagnostic+Procedures+on+FHIR

→This will be incorporated based on what is finalized for item 6 (Dose Management: Patient Protocol (Black Image) vs. RDSR). This item was not discussed since Kevin was not able to make this call.

8. Old Business

→New CP by Siemens CT: "Extend Table E.3.10-1. Safe Private Attributes" – This has be on standby while Siemens consolidates but Till noted that there has not been bandwidth at Siemens to get this moving. For now, this item will be removed from future agendas and Till will bring it back to the group when necessary. Nick did mention that this would be a great addition to the Standard.

→Dose metrics display in fluoroscopy – The group briefly discussed this item and it was determined that it is not relevant to WG-21, but would be a good topic for WG-02. Mahesh will send a description to Nick for the upcoming WG-02/28 meeting and this can be removed from WG-21 agenda.

9. **Upcoming meetings**

→WG-21 usually meets the 3rd Wednesday of each month at 12:00pm US Eastern. The next call is scheduled to take place on June 15, 2022, but Shayna will be in Chicago for the DICOM WG-07 (Radiotherapy) meeting. The group determined that June 29th from 12:00-1:00pm works best for the next WG-21 teleconference.

10. Adjournment: the call was adjourned at 12:40pm US Eastern Time.

Minutes prepared and submitted by Shayna Knazik
Reviewed by Counsel 6/28/2022