

MINUTES

DICOM WORKING GROUP 1 Cardiac and Vascular

Date and Time: Tuesday 26 February 2019
11:00am – 12:00pm US_EDT

Presiding Officers: Bruce Bray, User Co-Chair, University of Utah
Antje Schroeder, Producer Co-Chair, Siemens Healthineers,

DICOM Secretariat Lisa Spellman, General Secretary, DICOM

Present	First Name	Last Name	Organization	Voting Status
P	Bruce	Bray	ACC/University of Utah Health	Voting
	Paul	Seifert	Agfa HealthCare	Voting
	Ramona	Shirley	Agfa HealthCare	Observer
	Paul	Varghese	American College of Cardiology	Alt. Voting
	Mythreyi Bhargavan	Chatfield	American College of Radiology	Observer
	Peter	Tilkemeier	American Society of Nuclear Cardiology (ASNC)	Voting
	Rami	Barti	Bar-Code Computers Ltd.	Observer
	Minoru	Mashimo	Bard Electrophysiology - C.R. Bard	Observer
	Mati	Amit	Biosense-Webster (ISRAEL) Ltd.	Observer
	Satoshi	Oagawa	Cardiovascular Division, Department of Medicine	Observer
	Neil	Weissman	Cardiovascular Research Foundation	Observer
	Bob	Baumgartner	Change Healthcare	Voting
	Katsu	Takenaka	Department of Laboratory Medicine	Observer
	Kiyoshi	Yoshida	Division of Cardiology	Observer
	Mitchell	Krucoff	Duke University Medical Center	Observer
	Donald	Van Syckle	DVS Consulting, Inc.	Observer
	Johan	Wallhed	EPiQ Life Science AB	Observer
	Nico	Bruining	European Society of Cardiology	Voting
	Robert	Horn	Fairhaven Technologies	Observer
	Francisco	Sureda	GE Healthcare	Observer
	Steven	Nichols	GE Healthcare	Observer

	Gary	Tearney	Harvard Medical School	Voting
	Ravi	Managuli	Hitachi Healthcare Americas	Observer
	Yoshikazu	Igeta	Hitachi Medical Corporation	Observer
	Nitesh	Sawner	IGATE	Observer
	Bonnie	Weienr	Imaging Core Lab Services	Observer
	Jörg	Riesmeier	IT Consultant	Observer
	Jon	Elion	Jon Elion	Voting
P	Harry	Solomon	Laitek	Alt. Voting
	Douglas	Sluis	Laitek Inc.	Observer
	Joel	Friedman	LightLab Imaging, Inc.	Voting
	Robert	Steinbrecher	LightLab Imaging, Inc.	Alt. Voting
	Monica	Mojica	Mark Twain Medical Center Dignity Health	Observer
	Arvind	Thiagarajan	Matrixview USA Inc.	Observer
	Fred	Kusumoto	Mayo Clinic	Observer
	Charles	Thomas	Medical Imaging & Informatics Consultant	Observer
P	Lisa	Spellman	MITA	Observer
P	Luiza	Kowalczyk	MITA	Observer
	Brian	Lunt	MyXrayDose Ltd	Observer
	Chris	Melo	Philips	Observer
	Ruud	van Silfhout	Philips	Voting
P	Earl	Canfield	Philips	
	Miranda	Jacobson	Philips Volcano	Observer
	Boudewijn	Verstraelen	Pie Medical Imaging BV	Observer
	Folkert	Tijdens	Pie Medical Imaging BV	Observer
	David	Clunie	PixelMed Publishing	Voting
	Rex	Kerr	rk-logix, inc	Observer
	Tat-Jin	Teo	SensorCath Inc.	Observer
	Shigeru	Saito	Shonankamakura General Hospital	Observer
P	Antje	Schroeder	Siemens Healthcare GmbH	Observer
	Heinz	Blendinger	Siemens Healthcare GmbH	Observer
	Byrd	Bryan	St. Jude Medical Inc.	Observer
	Stephen	Vastagh	Standards Management Company	Voting
	Isao	Mori	Terumo Corporation	Observer
	Paul	Sovellius	The Advanced Surgical Visualization Consortium	Observer
	John	Hirshfeld	University of Pennsylvania	Observer
	Raymond	Bond	University of Ulster	Observer
	Bas	Revet		Observer

1. Opening

- 1.1. Open and roll call.
- 1.2. Antitrust and patent policy review
- 1.3. Agenda was approved with minor changes.
- 1.4. Minutes from last meeting, 22 January 2019.

2. DICOM WG-12 discussion: Extend DICOM SR for Strain measurements

<Action 1> Start with the core that could be a simple CP and then perhaps have a more robust proposal later

There was a discussion of the recent WG-12 tcon key points, including:

- Transducer and standards for quality measurement
- Ultrasound Physics group proposed some changes
- Identifying profile elements that could be used for quality
- It was noted that this is a complex topic so agreement was to further look into and consider how those elements would map
- Discussion about adding core Strain elements
- Review of the spreadsheet – this is the list from Strain Standardization Group (Jim Thomas list) items in yellow will be the ones try to map and also look at segmental items
- Recommend that WG-01 members participate in next WG-12 tcon on Mon 25 March 2019, 10amET

3. ACC/ASE Key Data Elements for Echo and IAC Accreditation Standards spreadsheet (Antje, Bruce)

- The group is still updating, Bruce has been added to their list and will have more info once he has a chance to attend one of their meetings.
- Table this for now until they see the published elements – no sense to work on a set of elements when we do not have the latest version. There was agreement to wait.
- Since mapping anything new to the 5302 table is a key process – table until this document is available until we have the latest document
- Main focus for us will be to collaborate on WG-12 for Strain and make into a Change Proposal (CP)
- Discussion of some templates in use and options for describing protocols and image annotations, potential to increase automation at some point to make more efficient
- DICOM WG-16 MR working on CPs. Reviewed Part 16, various sections and templates. Looking at a few different approaches for ultrasound and MR reports. Follow work in CT and Ultrasound and then can bring adding values to the MRI
- Quality measures NWIP Ultrasound, what kind of interest would there be on the cardiac side for supporting ultrasound details such as which probe, which technician, and expands into standardizing protocols for Strain is important, so having in the DICOM image would be helpful but tough to get adoption from vendors
- In addition to the WG-16 calls, might also look into the work of WG-02 to see how they are progressing. Ask a WG-2 person to attend next WG-01 call to walk us through their current template?
- IHE Cardiology domain has been sponsored by ACC for many years; it was dropped some years ago and may be dropped again. POC Ultrasound profile is out for comment, other work such as XC-Pre-fetch. CARD domain may be looking for new sponsor, ideally a professional society, would any

Europeans societies be interested? 5-6 Oct 2019 in Estonia, See if could maybe hold a symposium or something to raise the visibility of DICOM

- Nico offered to try to have an event of some type at this conference to raise visibility
- Joint European-US sponsorship activity may be helpful to get ACC to reengage
- Opportunities for collaboration across SDO and professional groups including RSNA, ACC, about standardizing measurements, there is some collaboration in LOINC with RADLEX, so encouraging this collaboration on the cardiac side should be a focus for this WG

- **WG-01 plans to:**
 - a. Pay attention to protocol work in other groups
 - b. Collaboration on Strain for Ultrasound (and possibly Cardiac MR)
 - c. Wait on the ASE/ACC elements until ready
 - d. Pay attention to what Angiography and the other groups are going for their protocols
 - e. Discussion of how to perhaps improve collaboration with other organizations

<Action Items>

3..1 Nico Bruining provided information about a relevant conference in October in Estonia – his information is below.

- ESC Digital Summit 2019. Location Tallinn, Estonia and dates: October 5th and 6th. Currently only one image/poster is available which can be found at:
<http://view.info.escardio.org/?qs=4a22a78fdea3d7cb6fd405b313d7a774bc1e1af089269bacc56381961a178779eaa4bb015486b0b4c2b7539652af21760e83d4a2cc1f7731b6562283ead93430613caee74b758e4618f8cd313ab36c3f>
- This is for industry.
- Next Wednesday, March the 13th the board of the Digital Health committee will meet in London to define the different tracks at the conference, and also those for the annual ESC congress at the end of August in Paris. I will propose to get standardization organizations also connected to the summit and will update you with a link(s) once they come available with more detailed information. I expect that to be soon as time is critical seen that we are already in March.

4. Possible future activities as identified on past calls (All)

- Begin to scope level of effort to update selected templates.
- Must identify if is a large project with much change so that a new work items proposal is needed or if can be handled as a CP. Begin with CPs if appropriate.
- Evaluate template from ASE and other relevant documents, identify gaps, determine if the scope is a CP and if not, consider addressing as a New Work Item Proposal (NWIP).

5. Old business

- No old business was submitted

6. New business

- No new business was submitted

7. Next meetings – tcons (Generally 4th Tuesday/month, 11am-12pmET)

Tues 26 March 2019

<https://global.gotomeeting.com/join/400323525>

Tues 23 April 2019

<https://global.gotomeeting.com/join/899907885>

8. Next meetings – F2F

- None planned for the moment.

9. Adjournment

The call adjourned at 12pm US ET. Report prepared by Lisa Spellman, DICOM General Secretary.

Report reviewed by MITA/NEMA legal: CRS, March 25, 2019.