

MINUTES

Joint meeting of DICOM WG 01 Cardiac & Vascular and DICOM WG-12, Ultrasound

Date and Time: Monday 23 September 2019
10:00am – 11:30 am US ET

Presiding Officers:

WG-01 User co-chair: Bruce Bray, University of Utah Health
WG-01 Vendor co-chair: Antje Schroeder, Siemens-Healthineers

WG-12 User co-chair: Bruce Bray, University of Utah Health
WG-12 Vendor co-chair: Sander Dekker, Cablon Medical

DICOM Secretariat Lisa Spellman, General Secretary, DICOM

WG-01	WG-12	On Call	First Name	Last Name	Organization	Voting Status
	Y		Christy	Adams	Carestream Health, Inc.	Observer
	Y		Kazuya	Akaki	Canon Medical Systems USA, Inc.	Observer
Y			Mati	Amit	Biosense-Webster (ISRAEL) Ltd.	Observer
	Y		Clare	Anderson	Trillium Technology, Inc.	Observer
Y			Rami	Barti	Bar-Code Computers Ltd.	Observer
	Y		Neerja	Baru	Siemens Healthineers	Observer
	Y		Allison	Bertrand	Seno Medical Instruments, Inc.	Alt. Voting
Y			Heinz	Blendinger	Siemens Healthcare GmbH	Observer
Y			Raymond	Bond	University of Ulster	Observer
Y	Y	P	Bruce	Bray	ACC	Voting
	Y		Bryan	Brook	Siemens Healthineers	Observer
Y			Nico	Bruining	European Society of Cardiology	Voting
Y			Byrd	Bryan	St. Jude Medical Inc.	Observer
	Y		Earl	Canfield	Philips	Alt. Voting
	Y		Paul	Carson	University of Michigan Health System	Observer
	Y		Joel	Chabriaais	Société Française de Radiologie	Observer
	Y		Jim	Chapman	Siemens Healthineers	Observer
Y			Mythreyi Bhargavan	Chatfield	American College of Radiology	Observer
	Y		Michel	Claudon	Hôpital d'Enfants - Hôpital Jeanne d'Arc	Observer
	Y		Bryan	Clingman	Seno Medical Instruments, Inc.	Voting
Y	Y		David	Clunie	PixelMed Publishing	Voting
Y		P	Bob	Conway	GE Healthcare	Observer

	Y		Emmanuel	Cordonnier	b<>com	Observer
	Y		Angeline	Cosca	Sdmi	Observer
	Y	P	Sander	Dekker	Cablon Medical B.V.	Observer
	Y		Terry	Dillon	Agfa	Observer
	Y		Michael	Douglas	Toshiba America Medical Systems	Observer
Y			Jon	Elion	Jon Elion	Voting
	Y		Gregory	Ensing	University of Michigan Medical Center	Observer
	Y		Karl-Heinz	Fleischer	GE Healthcare	Observer
Y			Mariza	Foster	MRI + Radiology Centre	Observer
	Y		John	Freeland	Freeland Systems	Observer
Y			Joel	Friedman	LightLab Imaging, Inc.	Voting
	Y		Varsha	Garg	Jaypee Institute of Information Technology	Observer
	Y		Wojtek	Grabski	Flux Inc.	Observer
	Y		Karan	Grover	Jaypee Institute of Information Technology	Observer
	Y		Joon Koo	Han		Observer
	Y		William	Hensen	FUJIFILM Sonosite, Inc.	Observer
Y			John	Hirshfeld	University of Pennsylvania	Observer
Y			Robert	Horn	Fairhaven Technologies	Observer
	Y		Helene	Houle	Siemens Healthineers	Observer
Y			Yoshikazu	Igeta	Hitachi Medical Corporation	Observer
	Y		Leodan Vega	Izaguirre	Informatics Science University	Observer
Y	Y		Miranda	Jacobson	Philips Volcano	Observer
	Y		Aditya	Jain	JIIT	Observer
Y			Rex	Kerr	rk-logix, inc	Observer
	Y		Rex	Kerr	rk-logix, inc	Observer
	Y		Jan-Ulco	Kluiwstra	Siemens Healthineers	Voting
	Y		Masao	Kobayashi	EBM Technologies Japan, Inc.	Observer
Y			Luiza	Kowalczyk	MITA	Observer
Y			Mitchell	Krucoff	Duke University Medical Center	Observer
	Y		George	Ku	Siemens Healthineers	Observer
Y			Fred	Kusumoto	Mayo Clinic	Observer
	Y		Brian	Lenz	GE Healthcare, Ultrasound	Observer
	Y		Damien	Lerat	SuperSonic Imagine	Alt. Voting
	Y		Dezheng (Bruce)	Li (Lee)	Shanghai United Imaging Healthcare	Observer
	Y		Chris	Lindop	GE Healthcare	Observer
	Y		David	Linker	University of Washington	Observer
	Y		Ernest	Liu	Siemens Healthineers	Observer
	Y		Haiyuan	Lu	Philips	Observer
	Y		Zheng Feng	Lu	University of Chicago	Observer
Y			Brian	Lunt	MyXrayDose Ltd	Observer
	Y		Joe	Luszcz	Philips	Voting
	Y		Marco	Maglione	Esaote	Observer
Y			Ravi	Managuli	Hitachi Healthcare Americas	Voting
	Y		Ravi	Managuli	Hitachi Healthcare Americas	Voting
Y			Minoru	Mashimo	Bard Electrophysiology - C.R. Bard	Observer
	Y		Achim	Mayer	TomTec Imaging Systems, GmbH	Observer
Y			Chris	Melo	Philips	Observer
	Y		Jean-Yves	Meuwly	Hospices Cantonaux Centre hospitalier universitaire vaudois	Observer

Y			Monica	Mojica	Mark Twain Medical Center Dignity Health	Observer
	Y		Monica	Mojica	Mark Twain Medical Center Dignity Health	Observer
	Y		Easwara	Moorthy	Philips	Observer
Y			Isao	Mori	Terumo Corporation	Observer
	Y		Bernhard	Mumm	TomTec Imaging Systems, GmbH	Observer
	Y		Robert	Muratore	Quantum Now LLC	Observer
	Y		Jay	Na	Carestream Health, Inc.	Observer
Y			Brian	Nantz	GE Healthcare	Observer
Y			Steven	Nichols	GE Healthcare	Voting
	Y		Steven	Nichols	GE Healthcare	Observer
Y			Satoshi	Oagawa	Cardiovascular Division, Department of Medicine	Observer
	Y		Kevin	O'Donnell	Canon Medical Systems USA, Inc.	Voting
	Y		Luigi	Pampana-Biancheri	ESAOTE S.p.A.	Observer
	Y		Gopi	Pattaswamy	GE Healthcare	Voting
	Y		Karla	Patten	Independent Consultant	Observer
	Y		Donald	Peck	AAPM	Observer
	Y	P	Stefano	Pedri	Esaote	Observer
	Y		Linda	Perez	Siemens Healthineers	Observer
	Y		Andrew	Pokropek	University College London	Observer
	Y		Jens	Rasmussen	BK Medical ApS	Observer
Y			Bas	Revet		Observer
	Y		Bas	Revet		Observer
Y			Jörg	Riesmeier	IT Consultant	Observer
	Y		Hugo	Robert	Bracco Diagnostics Inc.	Observer
	Y		Verena	Rödiger	Philips	Observer
	Y	P	James	Rogers	Coastal Consulting Group, Ltd.	Observer
	Y		Willy	Rose	Agfa	Observer
Y			Shigeru	Saito	ShonanKamakura General Hospital	Observer
Y			Nitesh	Sawner	IGATE	Observer
Y			Antje	Schroeder	Siemens Healthcare GmbH	Voting
	Y		Antje	Schroeder	Siemens Healthcare GmbH	Observer
Y			Paul	Seifert	Agfa	Voting
	Y		Akshay	Sharma	JIIT	Observer
	Y		William	Shepherd	iVu Imaging Corporation	Observer
	Y		Dai	Shinohara	Hitachi, Ltd. Healthcare Business Unit	Observer
	Y		Elliot	Silver	Change Healthcare	Observer
	Y		Jaspreet	Singh	Jaypee Institute of Information Technology	Observer
Y			Douglas	Sluis	Laitek Inc.	Observer
	Y		Douglas	Sluis	Laitek Inc.	Observer
	Y		Merv	Smith-Casem	Siemens Healthineers	Observer
Y		P	Harry	Solomon	Laitek Inc.	Alt. Voting
	Y		Harry	Solomon	Laitek Inc.	Observer
	Y		Jacques	Souquet	SuperSonic Imagine	Observer
Y			Paul	Sovellius	The Advanced Surgical Visualization Consortium	Observer
	Y	P	Paul	Sovellius	The Advanced Surgical Visualization Consortium	Observer
Y	Y	P	Lisa	Spellman	MITA	Observer

Y			Robert	Steinbrecher	LightLab Imaging, Inc.	Alt. Voting
	Y		Jens	Stockhausen	TOMTEC IMAGING SYSTEMS	Observer
	Y		Bernard	Stumpf	Heartlab	Observer
	Y		Cristina	Suarez Mejias	Virgen del Rocio University Hospital	Observer
	Y		Jun	Sun	Carestream Health, Inc.	Observer
Y			Francisco	Sureda	GE Healthcare	Observer
Y			Katsu	Takenaka	Department of Laboratory Medicine	Observer
Y			Gary	Tearney	Harvard Medical School	Voting
Y			Tat-Jin	Teo	SensorCath Inc.	Observer
Y			Arvind	Thiagarajan	Matrixview USA Inc.	Observer
	Y		Arvind	Thiagarajan	Matrixview USA Inc.	Observer
Y			Charles	Thomas	Medical Imaging & Informatics Consultant	Observer
Y			James	Thomas	Northwestern Memorial Hospital	
	Y	P	James	Thomas	Northwestern Memorial Hospital	Observer
Y			Folkert	Tijdens	Pie Medical Imaging BV	Observer
Y			Peter	Tilkemeier	American Society of Nuclear Cardiology (ASNC)	Voting
	Y		Rebecca	Trunnell Hyman	Merge Healthcare an IBM Company	Observer
Y			Ruud	van Silfhout	Philips	Voting
Y			Donald	Van Syckle	DVS Consulting, Inc.	Observer
Y			Paul	Varghese	American College of Cardiology	Alt. Voting
	Y		Paul	Varghese	American College of Cardiology	Observer
	Y		Craig	Walker	VidiStar, LLC	Observer
Y			Bonnie	WEienr	Imaging Core Lab Services	Observer
Y			Neil	Weissman	Cardiovascular Research Foundation	Observer
	Y		Jonathan	Whitby	Vital Images, Inc.	Observer
	Y		Edwood	Yiu	Change Healthcare	Observer
Y			Kiyoshi	Yoshida	Division of Cardiology	Observer
	Y		Ivan	Zador		Observer

1. Opening

- 1.1. Open and roll call.
- 1.2. Antitrust and DICOM patent policy review.
- 1.3. Agenda review and approval.
- 1.4. Review and approve minutes from 26 August 2019.
 - The co-chairs were pressed for time, so the August minutes were tabled until the October tcon.

2. AAPM Quality Assurance Elements status update: (Sander, Harry)

2.1. Pixel Map Analysis, Lead: Dr. Lu and Harry Solomon.

- Status update: **CP1975_wg12_Active image region overlay_05** (Harry)
- The CP adds the linkage between the overlay area and the quantitative data, and defines overlay use for multi-frame ultrasound images.
- Approved by WG-06 2019-09-09 to advance, assigned #1975
- **Status:** Harry continues to work on the CP

- **Status:** Sander reported that the Pixel Map Analysis review was scheduled to be on the MITA call for the last two months but the call has been cancelled. He hopes to be able to present on the September tcon.

<Action 1> Lisa said she would check with the MITA Ultrasound staff lead to check the status of the October tcon and let them know of WG-12's interest to get their feedback

2.2 Pixel Map Survey update (Harry, Lisa)

- Status: From the August action items 1 & 2, Lisa and Harry checked with MITA/NEMA legal on the survey and a few elements need to be changed to ensure we do not ask questions that stray into anti-trust territory. A revised survey will be shared on the Oct tcon.

2.3 CP1951_wg12_Transducer serial number

- **Lead:** Kevin O'Donnell
- Kevin was not able to be on today's call (sent regrets) will request status update from WG-06 review on Oct tcon

2.4 Display LUT Status update

- Status: This is on hold until the survey is complete.

2.5 Other tags on the AAPM proposed attributes list

- **Lead:** Sander Dekker, Dr. Lu and others from AAPM
- Status: Remains on hold until the Display LUT, PixelMap and Transducer S/N projects have been completed.

3. 2019 ACC/AHA/ASE Key Data Elements for Transthoracic Echo (Antje, Bruce)

- 2019 update for KDE in echo has now been published:
 - https://www.ahajournals.org/doi/full/10.1161/HCI.000000000000027?url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org&rfr_dat=cr_pub%3Dpubmed
 - <https://www.acc.org/latest-in-cardiology/articles/2019/06/24/16/53/key-data-elements-definitions-for-transthoracic-echocardiography-released>
- Dr. Bray noted that some members of WG1/WG12 reviewed an earlier draft version of this list and he is trying to get a more computable list for the data elements.
- Dr. Thomas indicated that he could share the last version in Word or Excel, he will also try to contact the person coordinating this at ACC and get to Dr. Bray so that he has an official version.
- Goal is to see what is new/changed between old and new versions.
- It was noted that many clinicians would like to see the new simplified version before they implement as many are not aware of how these are generated, so a concise write-up would be helpful.
- Is there a “boiler-plate/elevator version”? Dr. Thomas suggested it would helpful to put something in ASC Connect (ASC communication) for clinicians to ask their vendors, 4-5 bullet points explaining why the new protocol is better and will allow things to be handled more quickly
- Harry will look around and see if he can find anything
- **Next steps:** Put on the agenda for October to discuss communication for how to best share update

4. Cardiac Strain Structured Reporting status update

- Discussion of cross-vendor comparison for Strain

<Status of Action 3 from June tcon> Status update

- Create a draft for RV Free Wall Strain and discuss to see if ready to submit as a CP.
- **Leads:** Kevin, Bruce

<Requested member action>: Dr. Bray encouraged members to please review the spreadsheet, the 4th Measures tab in particular

https://docs.google.com/spreadsheets/d/16Ndb_dKIVzYDfEwWHWuAqJr-yvcl2sFYLx65XshJERc/edit?usp=sharing

- Dr. Bray tried to look for draft CP need to flesh this out for left ventricular, he will speak with Kevin again to see if can locate the draft CP if one was created
- **Next steps:**
 - Dr. Bray will work on the CP with Kevin
 - Put on agenda for next meeting, goal to have something to discuss in October

7. Old or New Business

- There was no old or new business presented.

8. Next meetings (Tcons usually 4th Monday of each month, joint WG1/WG12, 10-1130am US ET)

Monday 28 October 2019, WG1 & WG12, 2019-10-28, 10:00-11:30am US ET

<https://global.gotomeeting.com/join/299660493>

Monday 25 November 2019, WG1 & WG12, 2019-11-25, 10:00-11:30am US ET

<https://global.gotomeeting.com/join/314142245>

A December 2019 tcon will not be held as the 4th Monday will be 30 December, which is a time many people are on holiday. Going earlier would conflict with RSNA19/post-RSNA19, the decision was made to cancel.

F2F: No F2F meetings scheduled at this time.

9. Adjourn

The call adjourned at 10:45am US ET. Report prepared by Lisa Spellman, DICOM General Secretary.

Report reviewed by MITA/NEMA legal counsel: CRS, September 23, 2019.