

Minutes

<u>MEETING NAME</u>	WG-01/12 Joint Meeting: Strain/Cardio/Eco Topics	
<u>MEETING PLACE/DIAL IN</u>	International numbers in the meeting invitation and DICOM calendar	
<u>DATE & TIME</u>	Monday, November 2, 10:00AM ET _____	
<u>PRESIDING OFFICERS</u>	Univ. of Utah School of Medicine Siemens Healthineers Cablom Medical	Bruce Bray, Chair (WG-1 and 12) Antje Schroeder, Chair (WG-1) Sander Dekker, Chair (WG-12)
<u>VOTING MEMBERS PRESENT</u>	Canon Medical Research USA Northwestern Memorial Hospital Retired DICOM Secretary Siemens Healthineers Siemens Healthineers Univ. of Utah School of Medicine 12)	Kevin O'Donnell Jim Thomas Stephen Vastagh Jan-Ulco Kluiwstra Antje Schroeder, Chair Bruce Bray, Chair (WG-1 and 12)
<u>VOTING MEMBERS ABSENT</u>	Agfa American Society of Nuclear Cardiology (ASNC) Chartwise Medical Systems European Society of Cardiology Harvard Medical School LightLab Imaging, Inc. Philips PixelMed Publishing	Paul Seifert* Peter Tilkemeier* Jon Elion* Nico Bruining* Gary Tearney* Joel Friedman* Ruud van Silfhout* David Clunie*
<u>OTHERS</u>	Advanced Surgical Visualization Consortium Esaote GE Healthcare	Paul Sovelius Stefano Pedri, Observer Brian Nantz, Observer

Independent Consultant
Philips
Siemens Healthineers

Karla Patten, Observer
Arul Patchi Prasath, Observer
Marti McCulloch, Observer

DICOM
SECRETARIAT

Carolyn Hull

1. OPENING ITEMS

- Call to order: The meeting was called to order.
- NEMA Antitrust rules and DICOM Patent Policy: The Guidelines for Conducting NEMA Meetings were reviewed.

2. REVIEW AND APPROVE AGENDA

The agenda was reviewed.

3. REVIEW MINUTES- The minutes were reviewed and approved.

4. TOPIC ITEMS TO BE DISCUSSED

- **Strain-** Review of CP and Kevin O'Donnell/Stefano Pedri updates- CP 1950 from last call.

Reviewed Stefano Pedri comments. Agreement with points of encoding time of measurement peak, etc. Re; Wall layer question: discussion on both approaches and settled on encoding layer as part of method rather than finding site.

Action: Kevin O'Donnell to send out edits and get feedback from vendor community on whether this works for them, and **WG-1** to circulate as well after Kevin has sent to the group. This will be done prior to ballot.

Interest in some aspect of dispersion, possibly add to this document.

Next meeting: Come back to Post Systolic Strain topic.

- **Left Ventricle Global-**
- **Right Ventricle- Action:**
- **Left Atrium -8** measures to look through- discussion of triggers.
 - **Reservoir**
 - **Conduit**
 - **Contraction**

- **Dispersion**-Tracking quality
- **Apical strain index**
- **Left Ventricle**- (using endo v. full wall?)
 - **Global Longitudinal**
 - **Strain percentage**
 - **Segmental** (Trying to get codes mapped in for these)- discussion of 18 v. 17 segments
 - **Dispersion index**-
 - **Apical strain index**

5. Display LUT Status update

Other tags on the AAPM proposed attributes list

- **Lead:** Sander Dekker, Dr. Lu and others from AAPM
 - **Status:** On hold until Display LUT, PixelMap and Transducer S/N projects have been completed, however, continued research should continue.
- Status: This is on hold until the survey is complete.
 - **Note: The below notes are from the 2019-11-25 update from Dr. Liu. These are left in this agenda to help the WG remember the key points and action items.**
 - The AAPM Ultrasound Committee made a list and presented to DICOM WG12 a year ago. Great progress has been made. She thanked WG12, particularly Harry Solomon for his help on this task.
 - AAPM TG-316 is working to determine methodology for the ultrasound presentation consistency that will need: 1) DICOM GSDF compliant scanner monitors; 2) Digital ultrasound images in P-values to be sent to PACS; 3) Built-in test patterns on ultrasound scanners for performance verification and quality control testing.
 - IEC TC87 WG9 plans to add an amendment to IEC/TS62736 that describes testing methods for diagnostic ultrasound imaging systems.
 - At the Oct 2019 IEC TC87 WG9 meeting, ultrasound vendors pushed back because the current ultrasound scanner displays were not DICOM GSDF compliant. Will impact their production.
 - She received feedback at IEC meeting, only 1/5 vendors in agreement with this commitment

- IEC SC62b WG51 is working on a new technical standard on Medical Imaging Display in General (IEC62563-2) that will set the performance criteria. Ultrasound is one of the modalities and should be included in the consideration of that standard.

6. Next steps as listed from the tcon on 2019-11-25:

- a) A good value statement is needed.
- b) A statement that is consumable by end user, the non-technical side of the vendors
- c) Dr Lu will work on value statement and AAPM task group reports and their timeline is to have the reports ready by the end of 2020
- d) Dr. Bray will try to go back and review the presentation
- e) Dr. Lu will create a short version to emphasize the value and a cardiac example

7. OLD BUSINESS/NEW BUSINESS

8. DATE AND TIME OF NEXT MEETING

Monday, October 19, 10:00 AM ET- Strain/Cardiac

Nov. 16- Physics

Monday, November 23, 10:00AM ET or Nov. 30? (to be scheduled)

ADJOURNED: at 11:00AM ET

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SUBMITTED BY Carolyn Hull

SUBMITTED ON 11/10/20

LEGAL REVIEW Peter Tolsdorf, 11/12/2020

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