

## Minutes

<b><u>MEETING NAME</u></b>	WG-01/12 Joint Meeting: Strain/Cardio/Eco Topics	
<b><u>MEETING PLACE/DIAL IN</u></b>	International numbers in the meeting invitation and DICOM calendar	
<b><u>DATE &amp; TIME</u></b>	Monday, October 19, 10:00AM ET	
<b><u>PRESIDING OFFICERS</u></b>	Univ. of Utah School of Medicine Siemens Healthineers Cablon Medical	Bruce Bray, Chair (WG-1 and 12) Antje Schroeder, Chair (WG-1) Sander Dekker, Chair (WG-12)
<b><u>VOTING MEMBERS PRESENT</u></b>	Cablon Medical Canon Medical Research USA Hitachi Healthcare Americas Northwestern Memorial Hospital Siemens Healthineers Siemens Healthineers Univ. of Utah School of Medicine 12)	Sander Dekker, Chair (WG-12) Kevin O'Donnell Ravi Managuli Jim Thomas Antje Schroeder, Chair (WG-1) Jan-Ulco Kluiwstra Bruce Bray, Chair (WG-1 and 12)
<b><u>VOTING MEMBERS ABSENT</u></b>	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*
<b><u>OTHERS</u></b>	Advanced Surgical Visualization Consortium Esaote Philips	Paul Sovelius, Observer Stefano Pedri, Observer Earl Canfield, Alt-Voting

**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. TOPIC ITEMS TO BE DISCUSSED**

- **Strain-** Review of the CP- LV/Strain proposal. Some was reviewed during the WG-6 CP meeting. Looking at some questions on whether it is large. Will likely still fit in one CP.

Questions re: definitions. Kevin has a newer version (removed breathhold; Lagrangian strain is in now- seems to be what was in there from prior guidelines. Leave it to vendors). Allow for variations. Preferred one from ASE/Eco? Jim: They are currently working on it.

Definition of end- systole/diastole discussion.

Kevin O'Donnell will work up a set of codes based on this.

Suggestion for CP: Could focus this on ventricle and then wait and add atrial later. Could put in R-wave for now. Atrial phase 2 or if define interval. Let's do modified, limited on atrial-R wave to R wave. Clinically useful Strain that people use is reservoir strain (defined by R-wave). What about apical strain index?

**Action:** Jim Thomas/Stefano Pedri to make changes for next discussions.

**Action:** Kevin to make updates, others to add in then Nov. 2 meeting same time.

- **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**

Check back on vendor feedback and circulating through companies.

**Question:** What is the best way to get feedback from vendors? How do we actually go about getting feedback on topics—which ones they use and which are represented?

- Individual CPs- **Action for CH:** check with WG-6 after the call on whether need to be separate CPs or chunk.
- One point of this is to put this into a database. Common pre-coordinated items. On DICOM side, making sure to standardize the encoding. Standardize the practice. Qibawiki.rsna.org.

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.

**4. Next steps as listed from the last 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

**5. OLD BUSINESS/NEW BUSINESS**

**6. DATE AND TIME OF NEXT MEETING**

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

Nov. 2- Cardiac/Eco

Nov. 16- Physics

Monday, November 23, 10:00AM ET

**ADJOURNED: at 11:00 AM ET**

Submitted by: Carolyn Hull, 11/9/20

Reviewed by Counsel Peter Tolsdorf on 11/11/2020

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**SUBMITTED BY**

Carolyn Hull

**SUBMITTED ON**

11/9/2020

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