### MINUTES

**WORKING GROUP 19 Dermatology**

**Date and Time**
Tuesday 26th January 2021  
1500 – 1600 US Eastern Time

**Presiding Officers**
Liam Caffery, User Co-Chair  
Josep Malvehy, Vendor Co-Chair

**DICOM Secretariat**
Carolyn Hull, General Secretary, DICOM

**WG-19 Meeting Folder**
Each meeting of a DICOM Working Group (WG) must have a separate folder for each meeting. The link to the WG-19 master FTP folder is below. All 2020 WG-19 meeting folders are in the 2020 WG-19 master folder. The agenda and all relevant documents must be placed in this folder in advance of the teleconference.

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<th>Last Name</th>
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1. Opening

1.1 Introductions and opening

1.2 Review of antitrust and patent rule: CH read the antitrust statement per DICOM/NEMA policies.

2. DICOM Technical Work Item information

Discussion on confocal microscopy (CM) supplement:

-JM discussed difference between in-vivo and ex-vivo imaging. DC advised that a separate IOD for in-vivo and ex-vivo was probably best, but they would share common descriptive metadata items.

Scanning and acquisition was discussed:

- A macroscopic/dermoscopic image was often initially acquire and the confocal microscopy imaging was guided by this image; and the macroscopic/dermoscopic image could provide a 3D frame-of-reference.

-During an imaging study multiple z-stack and multiple mosaics may be acquired. A z-stack is viewed in video mode. stacks can have a variable number of slices, and they can be a variable distance apart from each other, and can also start at variable locations from the surface (assuming the surface is zeroed). Multiple image sets (partial views) may be needed to image a lesion.

-Ex-vivo imaging may use digital staining and fusion of images; ex-vivo imaging has the ability to image much larger size.

Encoding confocal microscopy acquisitions in DICOM was discussed:

-DICOM has limit of 64k x 64k rows and columns and if mosaic were greater that this, a pyramid structure like whole slide imaging would be needed to encode.

-PH noted that Caliber I.D store raw data for processing in case reconstruction is needed. DC noted this could be encoded using the DICOM Raw Data IOD +/- private tags; and standardizing storage of raw data across vendors may not be achievable or necessary.

-DICOM has a Specimen module which could be used for ex-vivo imaging

-Accession number and difference in order and encounter-based was discussed.

- The need for dedicated confocal microscopy image viewers was discussed.

-DC noted the need for synergy between this group and WG-26 digital pathology.

-DC recommended reading informative annex of Sup 122 Specimen Identification and Revised Pathology
-Action items:
  - PH to provide document describing in scanning modes and example images to LC to put on DICOM FTP server;
  - JM, AR, PP, PG, MA, MG to provide 1) use cases on how they conduct scanning which will be used to inform study/series/image structure and 2) descriptive metadata items for possible encoding in confocal microscopy IOD;

3. **Old Business**
   No other business was discussed

4. **New Business**
   No other business was discussed

5. **Other Business**
   No other business was discussed

6. **Next Meetings** – tcons: Last Tuesday of each month, 1500 US ET
   February 23rd, 2021 1500 US EST

7. **Next Meetings - F2F**
   None planned whilst COVID travel restrictions in place

8. **Adjournment**
   1607 Tuesday 26th January 2021.

Submitted by: Carolyn Hull

Reviewed by Counsel 2/5/21