

Minutes of DICOM WG24 “DICOM in Surgery” Meeting #17 (Berlin)

Saturday, 25 June 2011, 3:00 p.m. to 5 p.m.

Estrel Hotel Berlin, during CARS, Berlin, Germany

Attendees:

Michael Aschke, Siemens AG
Leonard Berliner, New York Methodist Hospital
Oliver Burgert, Universität Leipzig
John A. Carrino, Johns Hopkins University School of Medicine
Kevin Cleary, Children's National Medical Center
Christian Dressler, University of Leipzig
Allan G. Farman, The University of Louisville Health Sciences Center
Hubert Götte, BrainLAB AG
Leslie Holton, Medtronic Navigation
Steven C. Horii, Hospital of the University of Pennsylvania
Kiyonari Inamura, Osaka University
Mohamed Esmail Karar, Universität Leipzig
Samuel Kerschbaumer, Brainlab AG
Hayo Andreas Knoop, Siemens Healthcare
Lorenzo Lancellotti, University of Bologna
Heinz U. Lemke, ISCAS, CARS
Philipp Liebmann, University of Leipzig
Joseph Luszcz, Philips Healthcare
Daniel Markovics, evosoft Hungary Kft.
Conrad Menz, Straumann GmbH
Franziska Schweikert, CARS
Balázs Sobor, evosoft Hungary Kft.
Zsuzsanna Sovarschi, Evosoft Hungary Kft.
Frank Stockmann, Straumann AG
Gregory Zeller, American Dental Association

Agenda

1. Previous WG24 meetings and report of chair
2. Report on status of supplements 131 and 134 (O. Burgert)
3. "Real-time" information exchange in the OR (S. Kerschbaumer)
4. IHE in surgery (O. Burgert)
5. Report on and definition of new work items (e.g. coordinate systems, scalar values on surfaces, volumetric meshes, patient-specific implants, tracking, spatial objects, 3D ultrasound in surgery)
6. Supplement “Optical Surface Scan” (Ch. Dressler)
7. Work towards nD-Presentation state (O. Burgert, J. Luszcz)
8. Prosthetic value chain (F. Stockmann)
9. Next activities and meeting dates
10. Miscellaneous (e.g. WG6 representative)

1. Previous WG24 meetings and report of chair

Prof. Lemke gave a comprehensive overview of the current situation of interoperability in the OR. He reported on discussions with major vendors and their commitment to standardization.

2. Report on status of supplements 131 and 134

Dr. Burgert reported that Supplements 131 and 134 have been accepted at the WG06 meeting in November 2010.

3. "Real-time" information exchange in the OR

Mr. Kerschbaumer gave a presentation on the requirements of BrainLab. He pointed out that one of the most needed requirements is real time data transfer in the OR, which is currently not supported within the DICOM standard. Mr. Kerschbaumer will compile a document of some standardization requirements of BrainLab.

4. IHE in surgery

Dr. Burgert gave an introduction to IHE. He in particular referred towards future steps of setting up a new IHE domain "Surgery" and also introduced three draft proposals for this particular domain. It was concluded, that an important step towards creating IHE in Surgery is the search for a supporting sponsoring organization.

5. Report on and definition of new work items (e.g. coordinate systems, scalar values on surfaces, volumetric meshes, patient-specific implants, tracking, spatial objects, 3D ultrasound in surgery)

Prof. Berliner informed that at this point in time there are no resources available to work on the topics referred to as potential work items.

6. Supplement "Optical Surface Scan"

Mr. Dressler gave a presentation of the current status of the supplement 154 "Optical Surface Scanner". The supplement passed the first read at the WG06 meeting November 2010.

7. Work towards nD-Presentation state

The cooperation between the working groups WG02, WG07, WG11, WG12, WG15, WG16, WG17, WG21, WG22 and WG24 on this topic were described in particular by Dr. Luszcz. Some of the working groups are still in search for suitable use cases.

8. Prosthetic value chain

Mr. Stockman gave a presentation on the needs for patient-specific implants and the importance of standardized information exchange in this field.

9. Next activities and meeting dates

It was generally agreed that an exhibit representing WG 24 should be planned for RSNA 2011. Possible further meetings could be during SPIE Medical Imaging (possibly as a joint meeting with WG11) as well as during CARS 2012.

10. Miscellaneous

The work done by Dr. Burgert in WG6 representing WG24 was gratefully appreciated. Unfortunately his change of employment does not allow him to continue this work and therefore requires the search for a new representative.

Heinz U. Lemke
General Chair
28th October, 2011