QIBA Process Coordinating Committee Update

Wednesday, May 6, 2015

Committee Structure

- Process Coord Committee
  - Chair: Kevin O’Donnell
  - Vice-chair: Dan Sullivan
  - Coordinating Cmte Liaisons:
    - Cathy Elsinger (MR Coord Cmte)
    - Brian Garra (US Coord Cmte)
    - Edward F. Jackson (Steering Cmte)
    - Nancy Obuchowski (Metrology Cmte)
    - Eric S. Perlman (PET Coord Cmte)
    - Nicholas Petrick (CT Coord Cmte)
  - Biomarker Cmte Liaisons:
    - Michael Boss (DWI Biomarker Cmte)
    - Alexander Guimaraes (PDF MR Biomarker Cmte)
    - Feroze Mohamed (fMRI Biomarker Cmte)
Process Committee Kick-off

- Proposed – Dec 2014
- Approved by Steering Cmte – Jan 2015
- Recruitment – Feb 2015
- Inaugural Call – Mar 2015
- Charter:
  - Develop common Templates & Processes
  - Support & mentor adoption of above
  - Drive consistent content & format of Profiles
  - Support infrastructure for Committees

Current Status

- Meeting bi-weekly by T-con
- Conformance Statement:
  - Rough draft complete
  - Starting with self-attestation model
  - 2 Templates: Product vs Site/Staff
  - Appendices for (brief) details
  - Expect initial version by later this year

- Profile Template:
  - Feedback mostly collected
  - Review and resolution in progress
  - Expect new template by later this year
Annex A: Conformance Notes

A.1 CT Volume Change (2014) – Acquisition Device

Model-specific Instructions and Parameters

The following parameter values were used when demonstrating conformance and are provided for reference. Other values may also achieve conformance.

Annex A: Conformance Notes

A.1 CT Volume Change (2014) – Radiologist

All radiologists on staff have

- Reviewed the quality assurance guidelines described in section 3.4 of the profile
- Completed the performance assessment described in section 4.4 of the profile and met or
Challenges/Next Steps/Future Plans

- Outreach/communication into each biomarker cmte
  - Good initial response
- Normalizing across profiles
  - Distilling commonalities
  - Accommodating differences
  - Avoiding unnecessary variation
  - Reduce effort for authors and implementers
- Renovation of Wiki
- Real-world Deployment processes
  - Clarifying Profile Life-cycle
  - Addressing Site Conformance
  - Incorporate on Field Test experiences

QIBA – Industrializing Biomarkers

<table>
<thead>
<tr>
<th>Problem</th>
<th>Analysis</th>
<th>Solution</th>
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<tbody>
<tr>
<td>?</td>
<td>Sources of Variance</td>
<td>When all participating actors conform...</td>
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</tbody>
</table>
| Measure = 7 ±6 | Differences in:  
- Patient Handling  
- Acq. Protocols  
- Reconstruction  
- Segmentation  
... | Protocol Reqs  
Recon Reqs  
Resolution Reqs  
Noise Reqs  
Segment. Reqs  
Patient Prep & Operation Reqs  
Calibration Reqs |
| Goal | ! | Measure = 7 ±2 |