QIBA Ultrasound Shear Wave Speed (SWS) Technical Committee

Friday, March 14, 2014; 11 AM CT
Draft Call Summary

In attendance

Brian Garra, MD (Co-Chair)  Shigao Chen, PhD  Stephen McAleavey, PhD  Joe Koudelik
Andy Milkowski, MS (Co-Chair)  David Cosgrove, MD  Kathy Nightingale, PhD  Julie Lisiecki
Kaisar Alam, PhD  Steven E. Fick, PhD  Jonathan Rubin, MD, PhD
Michael Andre, PhD  Jérémie Fromageau, PhD  Keith Wear, PhD
Richard Barr, MD, PhD  Christopher Hazard, PhD  Hua Xie, PhD
Paul Carson, PhD  Oliver Kripfgans, PhD  Jim Zagzebski, PhD
Jun Chen, PhD  Mike MacDonald, PhD

RSNA

Moderator: Mr. Milkowski

Agenda:

- Review of notes from prior meeting
- Presentation on Volume Flow by Dr. Jonathan Rubin
- Concepts for proposed Year-4 NIBIB projects are due April 7th
- Summary from February 10, 2014 Tech Ctte t-con was approved as written

Presentation on Volume Flow by Dr. Jonathan Rubin

- Medical Applications of volume flow may be as follows:
  - Cardiac Output and Stroke Volume
  - Renal or Hepatic – TIPS
    - Including perfusion measurements
    - Transplants
  - Umbilical cord
  - Cerebral blood flow
  - Peripheral run-off studies
  - Aortic aneurysm assessments
  - Dialysis shunt evaluations
  - Anywhere where flow indices, e.g., RI, PI, S/D are presently used

- Group also referred to the Biomarker Selection Criteria on the RSNA website
- Both Philips and GE have patents on the volume flow technique
- An immediate clinical impact could be made in the following areas:
  - measuring arterial flow before and after transplants in cardiac testing
  - regulatory implications for Pharma drug development
    - drug companies are making drugs that increase blood flow
    - could provide a more standard method to evaluate drugs

- Proposal needs additional refinement for a better business case.
  - Dr. Garra to look at drug companies

Reminders

- Concepts for proposed Year-4 NIBIB projects are due April 7th for Steering Ctte review on April 17, and, if selected, eventual NIBIB submission in July.
- RSNA CALL FOR ABSTRACTS:  http://abstract/rsna.org/  Deadline is Wednesday, April 9, 2014 at 12 Noon, Central Time

Action Items:

- Dr. Garra to follow up with RSNA staff regarding an email to the tech ctte to discuss concept proposals and phantom study updates.
- RSNA staff to arrange a co-chairs call in the next week to discuss concept proposals.

Subcommittee Updates: Detailed project updates may be found on each subcommittee’s page: QIBA wiki
**Schedule for March:**

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<thead>
<tr>
<th>Date</th>
<th>Time (CT)</th>
<th>Day</th>
<th>Committee/Subcommittee</th>
<th>Moderator</th>
</tr>
</thead>
<tbody>
<tr>
<td>03/21/2014</td>
<td>11:00 am CT</td>
<td>Friday</td>
<td>COMBINED: System Dependencies / Phantom Subcommittees Call</td>
<td>Dr. Palmeri</td>
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<tr>
<td>03/28/2014</td>
<td>11:00 am CT</td>
<td>Friday</td>
<td>US SWS Clinical Applications Subcommittee</td>
<td>Dr. Samir</td>
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**Proposed Schedule for April:**

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<th>Time (CT)</th>
<th>Day</th>
<th>Committee/Subcommittee</th>
<th>Moderator</th>
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<tbody>
<tr>
<td>04/11/2014</td>
<td>11:00 am CT</td>
<td>Friday</td>
<td>US SWS Technical Committee</td>
<td>Dr. Hall</td>
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<td>04/18/2014</td>
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<td>COMBINED: System Dependencies / Phantom Subcommittees Call</td>
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<td>04/25/2014</td>
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<td>US SWS Clinical Applications Subcommittee</td>
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*Conferences for Ultrasound* on QIBA Wiki