AIUM/QIBA
Ultrasound Volume Blood Flow
Biomarker

MINUTES 2017-06-05

Attendance:

C. Baiu, P. Carson, J. Jago, O. Kripfgans, R. Leichner, M. Lockhart, R. Managuli, K. Minton, S. Pinter, R. Tadross, J. Rubin, M. Robbin, M. Trew, J. Zagzebski

I. General

- New co-chair: James Jago
- Jim Zagzebski Logiq E9 Rev 6, 3D, need to make sure 3D in color flow, has linear array 3D for breast. Platform has flat wide screen.   University of Wisconsin also has access to Siemens platform S2000/3000, owns also at least one 3D abdominal probe.
- Jim Zagzebski has time available after June 20th.
- Live c-plane displays would be a great feature for the user to setup the scanner, such as PRF and gain. This is even more important in the clinic where the flow geometry is more complex.
- Companies will probably come up with their own innovative ways for user interaction, should not be dictated by QIBA. However, consistency between machines will be easier for the user.
- Same is true for how to specifically obtain volume flow. QIBA will not require the use of surface integration.
- Michelle Robbin: Achieving over 750 mL/min would be great, however existing phantom is performing very well.
- Would be great to have information from the DICOM or other data file about the setup of the scanner.
- Some settings are quantitative (number of lateral beams), some others are qualitative (low, medium, high).
- Michelle Robbin warns: Echo people do use reversed left-right and other nomenclature. This is potentially confusing to Radiologists. C-plane and others can be reversed.
- Paul Carson is suggesting task group for nomenclature such that users recognize volume flow on a given system.

II. Platforms

- University of Alabama at Birmingham performed full QIBA phantom test.
- Michelle Robbin discovered: For depth study, she would use various other settings to achieve better image resolution. Currently imaging in resolution mode, where higher resolution is obtained, at depth maybe at the expense of quality.
- James Jago mentions that quantification of flow and visualization of flow might not require the same settings.
- Strong blooming has shown to be well tolerated by volume flow processing. High gain is advisable to the user.
- Michelle Robbin is asking about the processing so the user can better understand how to setup the machine. Ideally user settings would have minimal influence to the volume flow measurement.