Sierra
Calibration Assessment Slides

W Craig Revie

FFEI Limited

Sierra calibration assessment slides

- As described in previous Medical Imaging Working Group presentations, FFEI has developed a prototype calibration assessment slide
  - now available for assessment by a group of experts
  - need a plan to make these slides available on a commercial basis
- In this presentation:
  - Sierra project overview
  - Sierra web site
  - review of round-robin proposal
- Related topics
  - exposure control / slide lifetime assessment
  - staining assessment

Sierra project overview

Sierra web site

Questions from email

- What will you do with the slide as part of the round-robin
  - when can you do it?
- Can you create DICOM WSI image files for analysis?
- What is the digital microscope system colour rendering aim?
  - reference light source
  - numerical aperture
  - rendering intent
- Assessment of colour performance
- Will your company join the work to take the slide into production?

Round robin: rules of engagement

- Confidentiality
  - the aim of the group is to publish the results of the round-robin assessment however during the period of the round-robin all of the data files and discussion shared with the group shall not be shared outside of the group
- Web site access and use
  - the Sierra web site https://sierra.ffei.co.uk will be managed by FFEI
  - access shall be granted to suitably qualified participants
  - FFEI will maintain a roster of members which will be made available to group members
- Objectives
  - make and compare measurements of slides
  - scan slides on a range of digital microscopes and provide feedback
  - provide feedback on framework for digital microscope evaluation
- Timescale
  - time allocated to group members for assessment is strictly limited and group members should complete their assessment in a timely manner

Round-robin assessment time slots

Slide ID	Jul 2014	Aug 2014	Sep 2014	Oct 2014	Nov 2014
2014.d.0001	FDA	TIT		Konica Minolta	Slides re-measured by FFEI
2014.d.0002	Leica	GE Omnyx			
2014.d.0003	Ventana				
2014.d.0004	Philips	MGH			

FFEI has demonstrated feasibility – we would now like broader collaboration in Sierra

- Our long term vision is to develop a pair of slides
  - a slide that can be used to calibrate a digital microscope and
  - a slide that can be used to assess the calibration state of a digital microscope
- FFEI has funded the development to date and we have drawn on expertise within our organisation but we would like to identify a small group of partners to take this forward to production and deployment
- For this project to be successful we need funding, expertise and technical resources and would like help from members of the ICC Medical Imaging Working Group
- If you would like to join our work please make a detailed proposal as to how you will contribute – FFEI will select a small group with the necessary skills and resources necessary to set up reliable production of the slide on a commercial basis
- Work within the group will be subject to mutual NDA with the eventual goal of making the slides available to all

Questions and discussion