Serology Standards:

A US Working Standard for SARS-CoV-2 Serology

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Coronavirus Standards Working Group
What should a Coronavirus Standards Working Group do?

Assure development and availability of standards, controls, interlab testing, knowledge to support successful rollout & scaling of 2019-nCoV testing.

Identify and develop critical infrastructure to support...
- confidence in test results
- interoperability
- scale-up
- long-term capacity

Identify best practices that should be institutionalized

Learn what we need to so next time we have a global network in place ready to make standards.
Agenda

Updates

- Viral RNA Harmonization
- Serology Harmonization Study
- Standards for Genomic Surveillance

US Standard for SARS-CoV-2 Serology

- Troy Kemp & Ligia Pinto
Viral RNA Harmonization Study Data

- Data in from 11/14 labs
- Sample panel made it safely to Slovenia (thanks Mojca and Jo!)
- Data Munging done; preliminary calibration and value assignment coded; needs review and controlled vocabulary massage
  - target names, dilutions, pre-calculation...

### CSWG Viral RNA Harmonization Study Status

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REALLY preliminary results

- Naïve calibrations in log space, unweighted
- Likely inconsistencies in data arranging
- Potential dilution corrections required in some cases
Serology Harmonization Study

• Need follow-up meeting
• Please acknowledge availability in chat for:
  • 0800 PDT 3, 4, 5 May

• Options going forward
  • CSWG designs and operates a harmonization study as a standards-setting effort
  • CSWG acts as a "network hub" for University of Colorado team's leadership of the study
Developing a US Working Standard for SARS-CoV-2 Serology calibrated to the WHO International Unit

Troy Kemp and Ligia Pinto, Frederick National Lab for Cancer Research
Discussion