Viral RNA Standards Harmonization:

Data Review: Trends, Anomalies, Summaries

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 do next time we have a global network in place ready to make standards.
Agenda

Updates

• Standards for Genomic Surveillance

Viral RNA Harmonization Study

• Data Review
Viral RNA Harmonization Study Data

- Data in from 13/14 labs
- Analysis Dashboard pretty refined
- Feedback from a few folks has been really helpful

### CSWG Viral RNA Harmonization Study Status

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is there a concentration value for results, or is it simply IU (or IU/unit volume)?

how do we summarize multiple targets from a laboratory? does it matter?

can we identify trends in results extraction effects from different labs?

how do we estimate measurement uncertainty?
CSWG RNA Harmonization Study

Calibration Curves

Lab: biodesix  Target: N1

Material Results

Material: NIBSC

Calibration Curve Fit

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<th>Predictors</th>
<th>Estimates</th>
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<tr>
<td>(Intercept)</td>
<td>-18.71</td>
<td>-19.94 -- -17.49</td>
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Observations: 20
R² / R² adjusted: 0.994 / 0.994
Discussion