Pathogen Genomic Surveillance Workshop
Learnings, Harmonization Study
Next Steps

Arend Sidow and Marc Salit
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

Pathogen Genomic Surveillance
Consultation on findings

Harmonization Study
Experiment to demonstrate utility of comparable standards
Pathogen Genomic Surveillance

• Rockefeller Foundation-sponsored convening in June 2021 to propose “Standards Architecture”
• Working document in draft
• Summary findings to share
Harmonization Study
Update

• Results dissemination
  • some updates in dashboard

• Manuscript preparation
  • “Propagating the WHO International Unit for SARS-CoV-2 RNA”

• Experiment to demonstrate utility of comparable standards
  • share archived clinical samples to 3 labs, have them calibrate with harmonized standards
  • demonstrate comparability of viral load of clinical samples
    • in International Units per mL
Examine deviations to try to discover biases

- systematic biases like over extraction should be apparent in deviations
  - plot scaled to median ± 1
- nothing apparent