To: [redacted] 5.1.2e [redacted] 5.1.2e @rivm.nl]
From: [redacted] 5.1.2e
Sent: Sun 8/30/2020 12:11:11 PM
Subject: RE: SARS-CoV-2 in wastewater
Received: Sun 8/30/2020 12:11:19 PM

Hi [redacted] 5.1.2e

I have been thinking of the webinars to identify challenges in SARS-CoV-2 testing in wastewater in a LMIC

1) Viral recovery must be cost effective
   - Some labs using centricons which is not sustainable long term
   - Labs at tertiary institutions (where most of the work is done currently) have sophisticated equipment – not always available in standard water utility labs – and not all labs have same equipment – so recommended method must be flexible with regard to equipment/analytical platforms
2) Sample transport/Survival of SARS-CoV-2
   - Long distances for samples to be transported – In summer the temperatures are high
3) Sample type & volume
   - Grab vs composite – grab would be easier in LMIC
   - Currently 200 ml sewage working well ?what when titres drop – what is minimum volume to be analysed
4) Comparative results
   - We use 1 ml for nucleic acid extraction others use 100 ul
   - Which gene optimal to analyse for?
5) Reagents
   - Most of our testing was being done at the peak of infection in lockdown – procuring reagents was a nightmare. Competing with diagnostic services for kits, now with limited international flights we have to wait for reagents

Regards
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[redacted] 5.1.2e [redacted] 5.1.2e
[redacted] 5.1.2e [redacted] 5.1.2e
[redacted] Dubbel
[redacted] 5.1.2e
[redacted] 5.1.2e
[redacted] 5.1.2e

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