Yale SCHOOL OF PUBLIC HEALTH

Public Health Modeling Unit

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Real time public health communication of local SARS-CoV-2 genomic epidemiology

September 14, 2020
12 pm to 1 pm EDT

Genomic epidemiology can provide a unique, real-time understanding of SARS-CoV-2 transmission patterns. Yet the potential for genomic analyses to guide local policy and community-based behavioral decisions is limited because they are often oriented towards specially trained scientists and conducted on a national or global scale. Here, we propose a new paradigm: Phylogenetic analyses performed on a local level (municipal, county, or state), with results communicated in a clear, timely, and actionable manner to strengthen public health responses. We believe that presenting results rapidly, and tailored to a non-expert audience, can serve as a template for effective public health response to COVID-19 and other emerging viral diseases.

Papers:
https://www.cell.com/cell/fulltext/S0092-8674(20)30484-0
https://journals.plos.org/plosbiology/article?id=10.1371%2Fjournal.pbio.3000869
https://www.nature.com/articles/s41564-018-0296-2
Website:
https://covidtrackerct.com/

Join from PC, Mac, Linux, iOS or Android: https://yale.zoom.us/j/96943579554
Or Telephone：203-432-9666 (2-ZOOM if on-campus) or 646 568 7788
Meeting ID: 969 4357 9554