Challenges and Opportunities for Precision and Personalized Nutrition

A few examples of tools in other fields

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Topics for today

1. A few examples of epidemiology at scale
2. Some anonymized, aggregated datasets that researchers and public health teams are using (and that you can use, too)
Disclosures

Employed by Google (and own equity in Alphabet)

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- *UpToDate* (rapid response systems) (Wolters Kluwer)

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- RWJF, CIMIT, NPSF

Previously served on
- *National Academy of Medicine*. Artificial Intelligence and Machine Learning Working Group
- CDC. Healthcare Infection Control Practices Advisory Committee (HICPAC)
- CMS. Co-chair, Hospital Inpatient and Outpatient Process and Structural Measure Technical Expert Panel for CMS
Tools and methods to help researchers & public health
Aggregated, anonymized search queries
COVID-19 rapidly became the largest information need for our users
For researchers and public health: Google Trends, Search Symptoms Dataset, and Vaccine Search Insights

trends.google.com

scholar.google.com

blog.google/technology/health/using-symptoms-search-trends-inform-covid-19-research

blog.google/technology/health/new-tools-support-vaccine-access-and-distribution
Understanding distance and how it relates to travel time
Global maps of travel time to healthcare facilities


Announced last month: COVID-19 Vaccination Access Dataset

New tools to support vaccine access and distribution

Updated June 9, 2021

Terms of use

To download or use the data, you must agree to the Google Terms of Service.

Summary

This dataset characterizes access to COVID-19 vaccination sites based on travel times. We're releasing this data to help public health officials, researchers, and healthcare providers to identify areas with insufficient access, deploy interventions, and

https://vaccineplanner.org/

https://blog.google/technology/health/new-tools-support-vaccine-access-and-distribution/
Aggregated, anonymized community mobility
Hierarchical organization of urban mobility and its connection with city livability

Aleix Bassolas, Hugo Barbosa-Filho, Brian Dickinson, Xerxes Dotiwalla, Paul Eastham, Riccardo Gallotti, Gourab Ghoshal, Bryant Gipson, Surendra A. Hazarie, Henry Kautz, Onur Kucuktuncu, Allison Lieber, Adam Sadilek & José J. Ramasco

Supporting public health assessment & decision making

Overview: https://www.google.com/covid19/mobility/
What we talked about

1. A few examples of epidemiology at scale
2. Some anonymized, aggregated datasets that researchers and public health teams are using (and that you can use, too)

More information
100+ papers and other publications at: health.google/health-research/publications/