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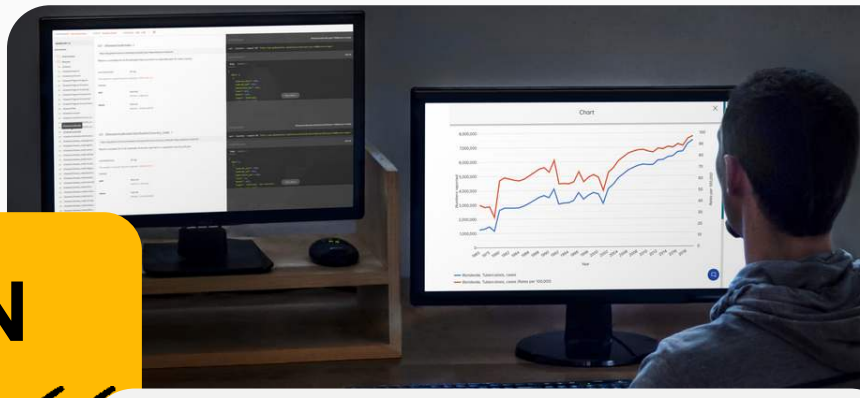

10 Ways GIDEON Supports Epidemiologists

> I don't think we could have modeled the data set we did without GIDEON.
>
> **Colin J. Carlson**
> Assistant Professor of Epidemiology,
> Yale University School of Public Health

1 Data going back to 1348 AD

GIDEON is the most comprehensive database of historical and current infectious disease outbreaks, encompassing 240+ countries and territories.

2 API service with R and Python wrappers

GIDEON offers a REST API for seamless programmatic data processing, ideal for tasks like modeling and predicting outbreak probabilities. R and Python wrappers simplify data parsing within familiar environments.

3 Updated by experts

GIDEON content is curated by a multidisciplinary global team of highly regarded medical scientists who follow a rigorous, evidence-based editorial process. The GIDEON team tracks 20,000+ sources daily.

4 Geographical context

GIDEON's expansive dataset pinpoints endemic diseases in each country and features 26,000 country-specific notes for those. It also provides a comprehensive overview of the global distribution of each disease.

5 Extensive data sets

GIDEON chronicles over 32,000 historical outbreaks and cross-border events, as well as 120,000+ prevalence and seroprevalence surveys. All outbreaks are geospatially mapped, with lat/long coordinates available via the API.

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GIDEON data on **historical outbreaks** go back to 1348 AD, offering researchers **unparalleled insight**

6 Sophisticated graphs

GIDEON offers over 58,000 graphs of incidence and death rates per year, with parallel graphs of rates per 100,000 population. All data is available in a table format and is retrievable via the API.

7 Interactive maps

GIDEON provides interactive maps of disease distribution, outbreaks, and vaccine coverage.

8 Used by authorities

GIDEON collaborates with esteemed individual scientists and authoritative bodies like WHO, CDC, Department of Homeland Security, and ECDC, reinforcing its commitment to serving the rigorous demands of leading epidemiologists worldwide.

9 Includes drugs and vaccines

GIDEON supports pharmacoepidemiologists by listing 350+ anti-infective drugs and 100 vaccines and globulins, more than 30,000 trade names in total! Compare toxic effects, interactions, contraindications, and therapeutic spectra.

10 Bioterror scenarios

Bioterrorism notes help epidemiologists simulate and anticipate the possibility of bioterror events associated with all relevant diseases. These notes encompass historical instances of pathogen use, exposure scenarios, countermeasures, and recent control strategies, offering a comprehensive perspective on potential threats and preventive measures.

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