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Exploring the Link Between Climate Change and Infectious Diseases

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>
> **Dr. Joseph L. Servadio**
> Postdoctoral Scholar at the Penn State University Center for Infectious Disease Dynamics

Climate change has been one of the primary concerns for governments and societies across the globe for the last decade, with the impact on economies being the chief driving factor for encouraging or enforcing control measures. However, understanding the implications on healthcare and the changing prevalence of infectious diseases is equally critical to saving lives.

That is precisely what Joseph Servadio and his team from Brown University explored in their research 'Climate patterns and mosquito-borne disease outbreaks in South and Southeast Asia'.

THE CHALLENGE

Data is critical to enabling research and new ways of thinking and building evidence to truly make a difference in regions and countries.

‘These studies are important for specifying where disease outbreaks can take place. Since the natural environment and level of human development can vary greatly within and across countries, it is vital to recognize that different locations likely have different risk levels for infectious diseases. For mosquito-borne diseases, climate change is likely to affect mosquito habitats and change the risk of outbreaks. Some areas may become more suitable habitats and see greater risk while others may become less suitable and see less risk,’ said Joseph.

THE GIDEON SOLUTION

Access to the GIDEON’s data was crucial to identifying where and when outbreaks were occurring. ‘Having global data in one place is really appealing. Our study covers several countries in South and Southeast Asia and having data for multiple countries compiled in one source is extremely helpful in saving on time otherwise needed to collect data from multiple sources and piece them together.’

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GIDEON data helped Joseph and the team better understand historical outbreak patterns and predict where mosquito control measures may need to be increased.

GIDEON Advantages

Dedicated data visualization toolkit

Make a point in seconds. Use 58,000+ epidemiological graphs to create bespoke charts that tell a story or configure time-specific outbreak maps. Enhance publications, presentations, or engage classroom with effortless visualizations, exported at a click of a button.

In-depth analysis of global disease spread

GIDEON's database contains 120,000+ prevalence and seroprevalence surveys, 26,000+ country-specific notes and provides information on over **32,000 historical outbreaks and cross-border events.**

Interactive maps

GIDEON renders interactive maps of disease distribution and outbreaks - **there is one for every disease.** GIDEON also provides vaccine coverage maps.

Over 3,000 pathogens

GIDEON database contains in-depth information on **over 3,000 medically important bacteria, mycobacteria, viruses, parasites, yeasts, and algae.**

Updated every day by a team of experts

GIDEON is curated by a global team of highly regarded medical scientists who are **updating the database daily.**

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