

## The Duties of an Epidemiologist

Epidemiologists play an important role in safeguarding communities from infectious diseases, chronic illnesses, and emerging health threats. An Epidemiologist blends scientific investigation, data analysis, and public health practice to prevent illness and promote well-being on a population level. They do this by gathering, organizing, and sharing data to stakeholders and leadership that can influence changes and decision making for improving public welfare and wellbeing

One of the ways that epidemiologists work with data is by conducting disease surveillance. By collecting and analyzing data from hospitals, laboratories, and community sources, they identify patterns, track outbreaks, and detect unusual trends that may signal new public health concerns. This surveillance helps identify cases of infectious diseases early on in communities, and prevent them from spreading further and impacting more people.

Another major role and duty of an epidemiologist is data analysis and interpretation of that data. Interpreting data, and understanding what data and numbers are truly saying is very important as that is what allows us to make good decisions regarding public health policy. Without accurate and timely data, it becomes much harder to make good decisions that have an impact on the health of the population.

Epidemiologist participation in policy and decision making is also very important. Public health epidemiologists often meet and touch base with health department leadership to offer their expertise and viewpoint on topics such as emerging disease trends, resource allocation, and the effectiveness of current interventions, ensuring that decisions are grounded in solid scientific evidence, and ensure leadership understands the implications of decisions being made on their impact on the public's health.

Lastly, epidemiologists also participate in educating not only the public, but also other public health professionals. Anytime there is a new disease or new problem that public health faces, epidemiologists are often tasked with information gathering and sharing. This ensures that all public health professionals can be on the same page when addressing issues that impact public health.

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