

CDC Steven M. Teutsch Prevention Effectiveness Fellowship

Training fellows in public health economics, modeling, and analytics for better evidence-based decision-making



Since 1995, the CDC Steven M. Teutsch Prevention Effectiveness (PE) Fellowship has built a network of scientists who synthesize vital public health information for evidence-based decision-making. Fellows specialize in either health economics and health services research, or disease modeling and advanced analytics. It is the largest post-doctoral training program of its kind in the United States.

What Fellows Do

Fellows represent a range of disciplines and apply quantitative methods to examine key public health issues to optimize resources, enhance responses, and improve health.

- **Conduct research on cost-effectiveness, efficiency, and economic evaluation** to identify interventions that reduce healthcare spending and save lives.
- **Develop models that identify what happened, estimate current conditions, and predict future trends** to support timely responses to public health threats.
- **Translate complex findings into practical recommendations** in collaboration with experts across public health disciplines.

By the Numbers



More than 300 scientists trained since 1995



More than 7,000 papers published by fellows and alumni in peer-reviewed journals



149 manuscripts published by fellows and alumni in 2025 alone



Why this Program Matters

Public health leaders need strong evidence to decide where to focus efforts and resources. PE fellows provide analyses that help local, state, and national leaders strengthen programs and improve public health. Their work can:

- **Shape public health strategy, funding, and resource** decisions by assessing health outcomes, costs, and value.
- **Guide prevention priorities** by examining disease burden and economic impact.
- **Solve complex public health challenges** by analyzing data to understand what works, comparing the costs and benefits of different approaches, finding ways to improve program operations, and using models to understand and predict public health trends.
- **Produce high-quality evidence** from study design and data analysis.

A Closer Look

PE fellows apply their skills to real-world public health challenges. Examples of their work include:



Improved hepatitis C planning and resource allocation. Fellows developed the Hep C State Policy Simulator to help states understand the potential health and economic impacts of different screening and treatment policies. They also outlined tactics for managing hepatitis C with limited resources.



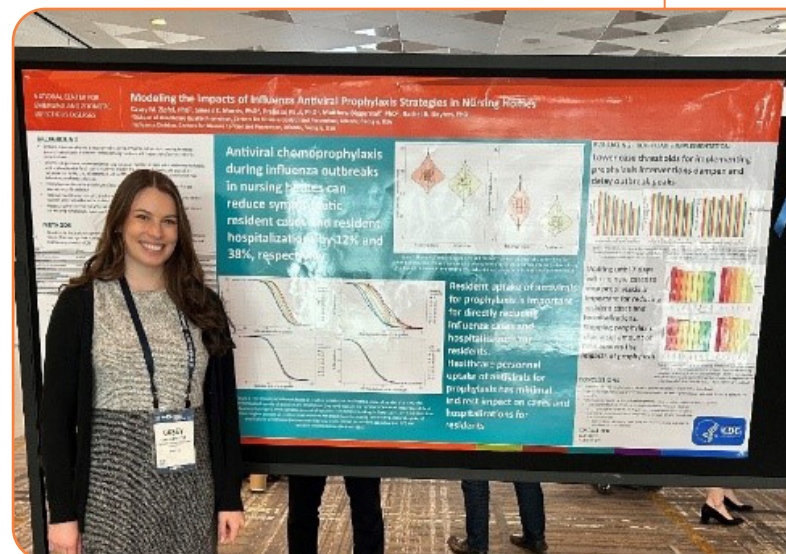
Helped communities prepare for measles outbreaks. Fellows co-developed the Measles Scenario Model, an interactive tool that shows how vaccination, isolation, and quarantine strategies can affect the size of an outbreak.



Supported efforts to end the HIV epidemic. Fellows used advanced modeling to help public health partners evaluate interventions that reduce disease transmission and improve health outcomes.



Strengthened disease surveillance, outbreak preparedness, and infection prevention. Fellows created tools to understand how patient movement between healthcare facilities can contribute to the spread of drug-resistant infections.



Dr. Casey Woika, 2021 PE Fellow, presents her research on influenza prevention strategies.