

ENACT

TRANSFORMING HEALTH SECURITY

DIVISION OF RESEARCH, INNOVATION, AND VENTURES (DRIVE) | DRIVE.HHS.GOV | ENACT@HHS.GOV

WHAT IS ENACT?

Presymptomatic detection and treatment of life-threatening disease is critical to both the patient and the broader community.

ENACT (Early Notification to Act, Control, and Treat) partners with innovators to develop disruptive technologies that detect, prognosticate, and enable early intervention following exposures to both natural and man-made threats.

HOW ENACT WILL DISRUPT PATIENT CARE

ENACT is focused on three objectives:

- 1) Technologies integrated into everyday life
- 2) In-home, platform-based devices that are built for repeated, on-demand use
- 3) Disposable, over-the-counter products

Utilizing technologies that non-invasively sense and monitor changes in health in a user's baseline to detect illness before symptoms.

Through these three objectives, ENACT modernizes the traditional, doctor-based health care delivery by empowering

people/patients to make informed decisions and better manage their health. Giving people earlier indication of when they are becoming sick helps to **1)** identify illness quicker; **2)** improve access to medical treatment and care; **3)** reduce spread of illness; **4)** shorten illness duration; and **5)** reduce total costs.

ENACT empowers Americans with actionable information to improve outcomes.

FORTIFYING HEALTH ENHANCING PREPAREDNESS

ENACT benefits both the user and the broader community. ENACT-sponsored technologies can alert local public health officials to potential outbreaks in a community while ensuring individual privacy. Real-time reporting can provide a more responsive warning system that does not rely on sick patients leaving their homes to receive care.

ENACT serves as an early warning signal through the detection of presymptomatic exposures of pathogens. In the event of an unprecedented emergency, ENACT will play a critical role in identifying and mobilizing a response to prevent those pathogens from spreading.

Chronic lower respiratory diseases are the **fourth leading cause of death** per year

79,000 deaths due to influenza and pneumonia in 2018

960,000 hospitalizations during the 2017-2018 flu season in the U.S. from influenza

<https://www.cdc.gov/nchs/fastats/deaths.htm>

<https://www.cdc.gov/flu/about/burden/index.html>

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