



The Threat of Antibiotic Resistance



63%

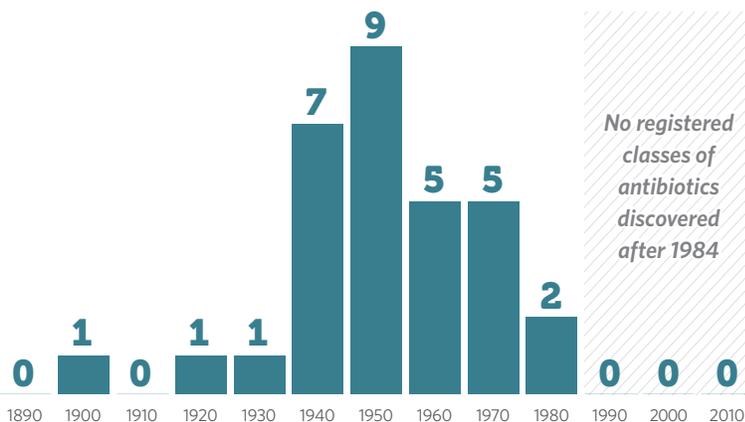
of infectious disease doctors have treated patients with infections that **did not respond to any antibiotics.**

Up to **\$20** billion

Direct health care costs incurred by patients suffering from antibiotic-resistant infections each year.

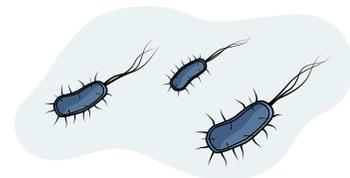
Every antibiotic in use today is based on a discovery made **more than 30 years ago.**

Number of antibiotic classes discovered or patented



2 million Americans

acquire serious infections caused by antibiotic-resistant bacteria **each year.**

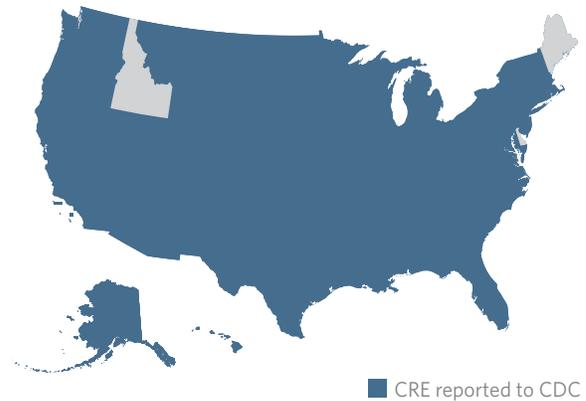


23,000 people die each year as a direct result of these infections.

CRE, or carbapenem-resistant Enterobacteriaceae, have been deemed **“nightmare bacteria”** by CDC, which classified the pathogen as **an urgent threat**.



As of **2001**, CRE was reported in **one state**.



As of early **2016**, CRE was found in **48 states**.

Sources

Adam L. Hersh et al., “Unmet Medical Need in Infectious Diseases,” *Clinical Infectious Diseases* (April 2, 2012), doi: 10.1093/cid/cis275.

Alliance for Prudent Use of Antibiotics, “The Cost of Antibiotic Resistance to U.S. Families and the Health Care System” (January 2010), http://www.tufts.edu/med/apua/consumers/personal_home_5_1451036133.pdf.

John Powers, “Scientific and Regulatory Issues in Studying Experimental Antibiotics: Doing Better With More Efficient Studies” (presented at the Pew-IDSA-PhRMA conference, “Reviving the Pipeline of Life-Saving Antibiotics: Exploring Solutions to Spur Innovation,” Washington, Sept. 22, 2011).

U.S. Centers for Disease Control and Prevention, *Antibiotic Resistance Threats in the United States, 2013*, accessed Jan. 9, 2014, <http://www.cdc.gov/drugresistance/threat-report-2013/index.html>.

U.S. Centers for Disease Control and Prevention, Tracking CRE, accessed Aug. 15, 2016, <https://www.cdc.gov/hai/organisms/cre/TrackingCRE.html>.

U.S. Centers for Disease Control and Prevention, “CDC’s Graphs of the Year: Nightmare Bacteria Spread and 100,000 Smokers Likely Quit With Tips,” accessed Jan. 9, 2014, <http://www.cdc.gov/media/releases/2013/a1231-graphs-year.html>.

For further information, please visit:

pewtrusts.org/antibiotics

Contact: Heather Cable, manager, communications **Email:** hcable@pewtrusts.org **Project website:** pewtrusts.org/antibiotics

The Pew Charitable Trusts is driven by the power of knowledge to solve today’s most challenging problems. Pew applies a rigorous, analytical approach to improve public policy, inform the public, and stimulate civic life.