

# The Impact of Health Research

facts about:

## Research: An Economic Driver that Saves Lives and Money >> 2012 update

### Today:

- ∴ National Institutes of Health (NIH) support created more than 480,000 jobs in 2010.\*
- ∴ In 2010, the medical research sector exported \$90 billion of goods and services.\*
- ∴ Every \$1 that the federal government invested for the Human Genome Project has generated \$141 in economic returns.\*\*
- ∴ A quarter of all drugs approved from 1988-2005 cite at least one publicly-funded patent.\*\*\*

\*2011 UMR Report "An Economic Engine"

\*\*Economic Impact of the Human Genome Project. Batelle Report

\*\*\*Sampat and Lichtenberg. Health Affairs 2011

## Saving Lives, Saving Money

### How Research Saves Lives

- ∴ Death rates from the nation's No. 1 killer, heart disease, have been cut by more than 65% in the past 60 years.
- ∴ Death rates from cancer dropped by nearly 12% in just one decade (1999-2009).
- ∴ From 1999 to 2008, the overall death rate in the U.S. from stroke fell 34%.

Centers for Disease Control and Prevention ([www.cdc.gov](http://www.cdc.gov))

### How Research Saves Money

- ∴ Thanks to research, we know that treating patients at low-to-moderate risk for cardiovascular disease with statins can prevent as many as 27,000 deaths from heart disease each year and reduce annual medical spending by up to \$430 million.\*
- ∴ Research has shown that flu vaccinations reduce the costs of medical treatment and lost productivity. Between \$60 and \$4,000 per illness is averted by getting a flu vaccine.\*\*
- ∴ Medical costs for someone with Type 2 Diabetes are over twice those of someone with out. NIH-funded research has shown that low-cost lifestyle changes can reduce the risk of Type 2 Diabetes and associated medical costs.\*\*\*

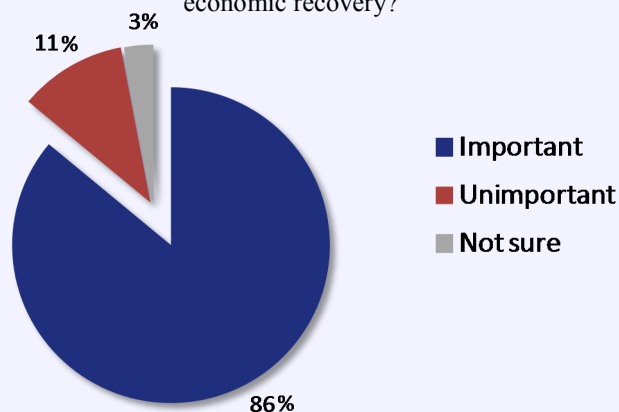
\*Lazar, L.D. et al. Circulation. 2011; 124(2):146

\*\*CDC Morbidity and Mortality Weekly Report Aug 10, 2006

\*\*\*American Diabetes Association

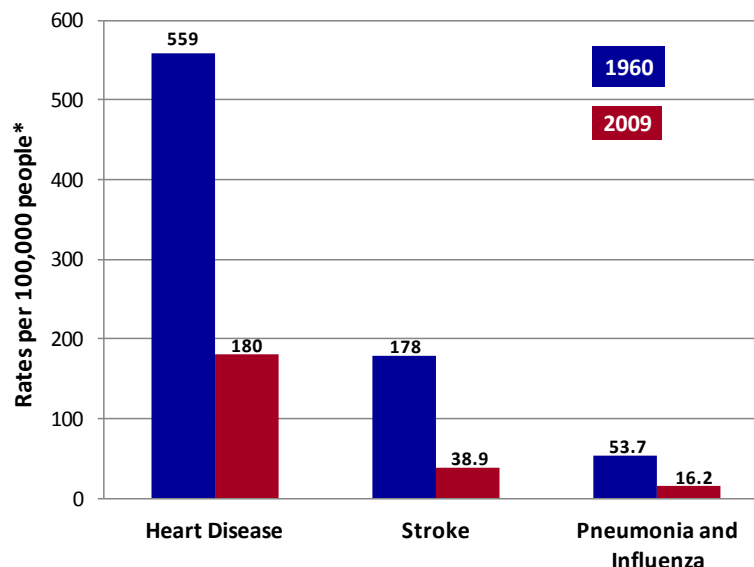
## Americans Think Health Research is Key to Job Creation, Economic Recovery

How important is investing in health research to job creation and economic recovery?



Source: National Public Opinion Poll, October 2011, JZ Analytics for Research!America

## Mortality Rates are Decreasing



Adapted from "Fifty Years of Progress in Chronic Disease Epidemiology and Control" Supplement CDC MMWR report Oct 7, 2011

\*Age-adjusted to 2000 U.S. standard population

*The U.S. investment in research through the NIH has provided an estimated 50-fold return to the economy by improving Americans' health.*

# Facts About Research

*If you think research is expensive, try disease.*”

— Mary Lasker 1901-1994

## Why invest more now?

- ∴ Research generated \$69 billion in new economic activity in the U.S. in 2010.\*
- ∴ Currently, 22 of the worlds 50 top-ranked universities for life sciences are in the U.S. We must continue to invest to foster the next generation of scientists.\*
- ∴ China recently surpassed Japan in R&D investment and now is second only to the U.S. If our investment stagnates, we will lose our competitive edge.\*\*
- ∴ Chronic diseases such as heart disease, cancer, diabetes and asthma cost the U.S. \$1.7 trillion each year.\*\*\*
- ∴ The cost of Alzheimer’s was \$172 billion in 2010 and, in the absence of effective treatments, its cumulative cost will exceed \$20 trillion between 2010 -2050.\*\*\*\*
- ∴ It takes approximately 13 years of research and development to bring a drug to market. Lack of investment now will lead to fewer therapies in the future.\*\*\*\*\*

\*2011 UMR Report “An Economic Engine”

\*\*2011 Global R&D Funding Forecast. Battelle Report

\*\*\*Partnership to Fight Chronic Disease. 2009 Almanac of Chronic Disease.

\*\*\*\* Alzheimer’s Association “Changing the Trajectory of Alzheimer’s Disease: A National Imperative”

\*\*\*\*\*Collins FS. Science Translational Medicine July 6 2011.

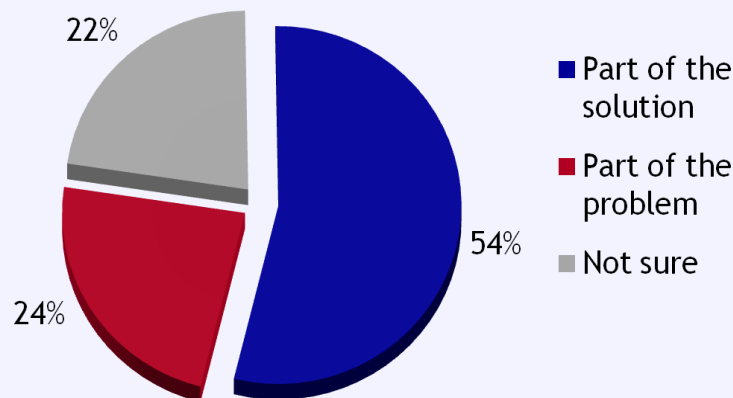


***If we devote resources to medical research, we will save countless lives and trillions of dollars***

—G. Thompson Hutton, Esq. CEO of Geoffrey Beane Foundation

## Research is Part of the Solution to Rising Health Care Costs

When it comes to rising health care costs, would you say research to improve health is part of the problem or part of the solution?



Source: National Public Opinion Poll, October 2011, JZ Analytics for Research!America

## Sustaining Global Leadership

***“Innovation is the source of U.S. economic leadership and the foundation for our competitiveness in the global economy.”***

**BILL GATES**, chair, Bill & Melinda Gates Foundation