

# FY 2007 Budget: NIH and the Transformation of Medicine

Senate Appropriations Subcommittee  
on Labor/HHS/Education

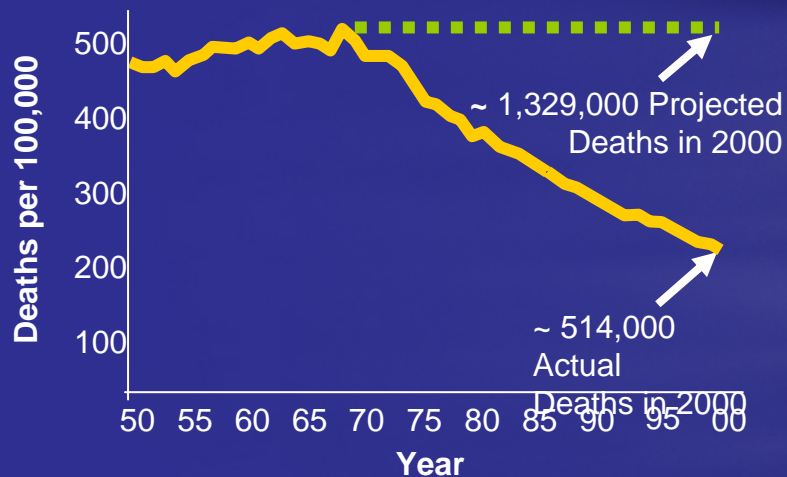
Elias A. Zerhouni, M.D.  
Director  
National Institutes of Health



- **What is the return on the American people's investment in the National Institutes of Health?**
- **What has the NIH budget doubling delivered?**
- **What is the NIH strategy for the future?**



# Biomedical Research **Has** Coronary Heart Disease **Delivered**

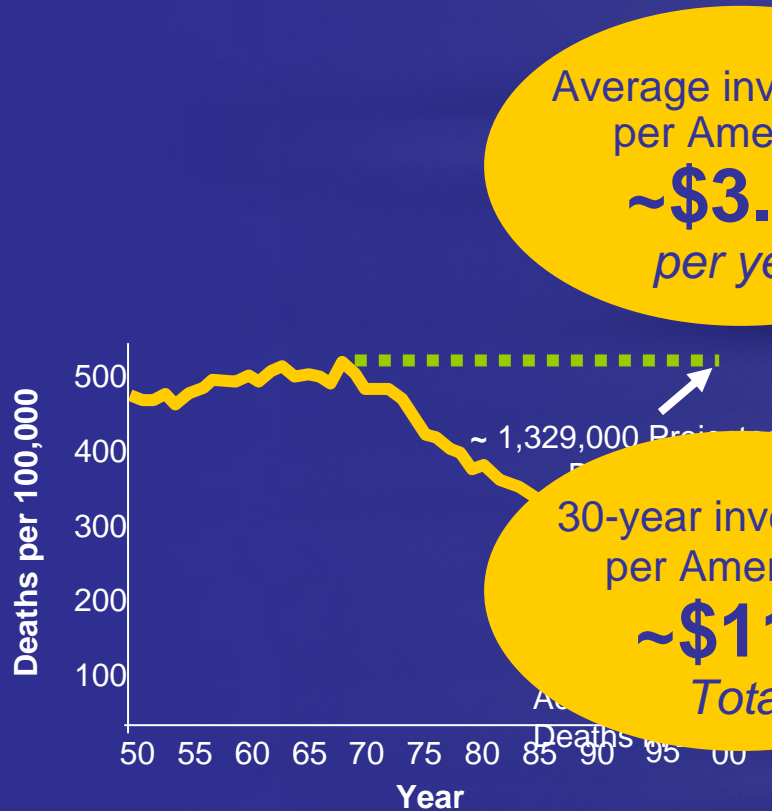


- 63% decrease in Mortality
- ~ 1 million early deaths averted per year
- \$2.6 trillion in economic return
- New, effective treatments and prevention strategies



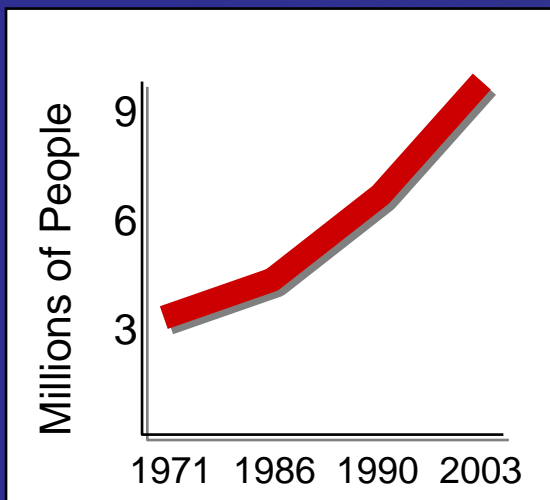
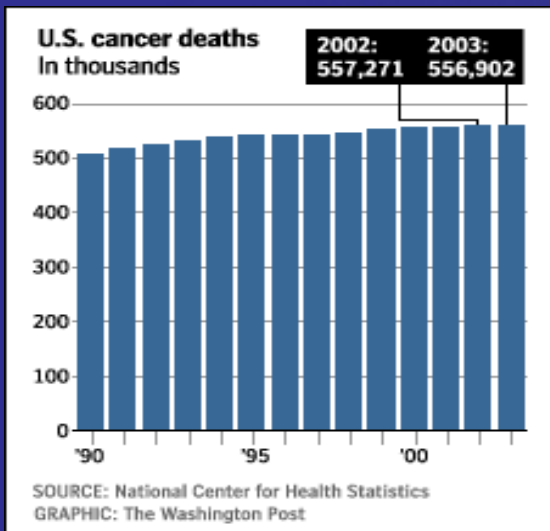


# Biomedical Research **Has** *Coronary Heart Disease* **Delivered**



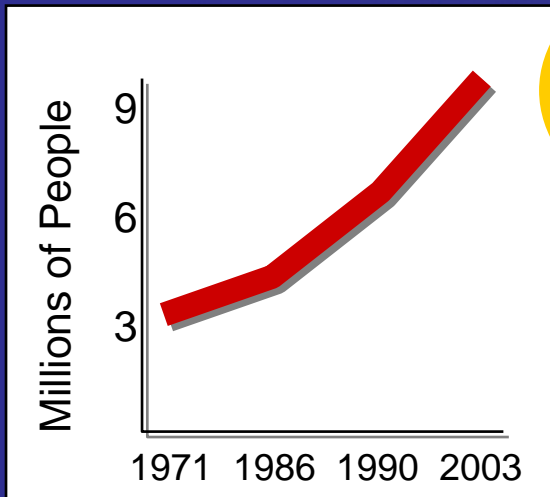
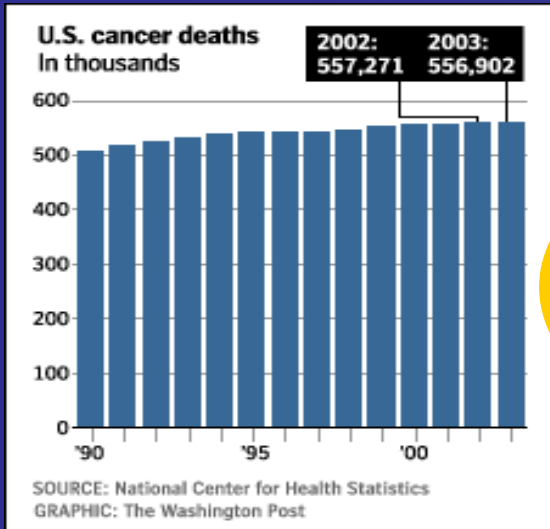
- 63% decrease in Mortality
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# Biomedical Research **Has** *Cancer* **Delivered**



- For the first time in recorded history, annual cancer deaths in the United States have fallen
- 10 million survivors
- Advent of early detection and screening

# Biomedical Research **Has** Cancer **Delivered**



- For the first time in recorded history, total cancer deaths in the United States have fallen

Average investment per American  
**~\$8.60**  
per year

- 2 million survivors
- Lack of early detection and screening

30-year investment per American:  
**~\$260**  
Total



# Biomedical Research **Has** *Americans Live Longer, Healthier Lives* **Delivered**



- **Improvements in:**
  - Recovery from heart disease, stroke
  - Deafness
  - Vision impairment
  - Osteoporosis
  - Arthritis



# Biomedical Research **Has**

*Americans Live Longer, Healthier Lives*  
**Delivered**



Since 1982,  
disability rate for  
elderly Americans  
declined by 30%

## ■ Improvements in:

Recovery from heart  
disease, stroke

Deafness

– Vision impairment

Osteoporosis

Arthritis

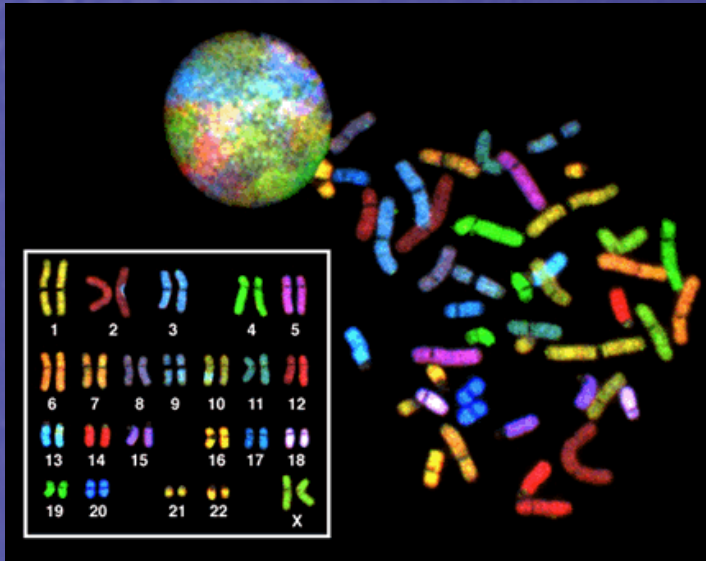


In past 30 years,  
American life  
expectancy  
increased by ~6  
years





# Biomedical Research **Is Delivering** *NIH Advances in the Past Year*



## ■ Genomics:

– Identified >20 genes influencing diseases, including:

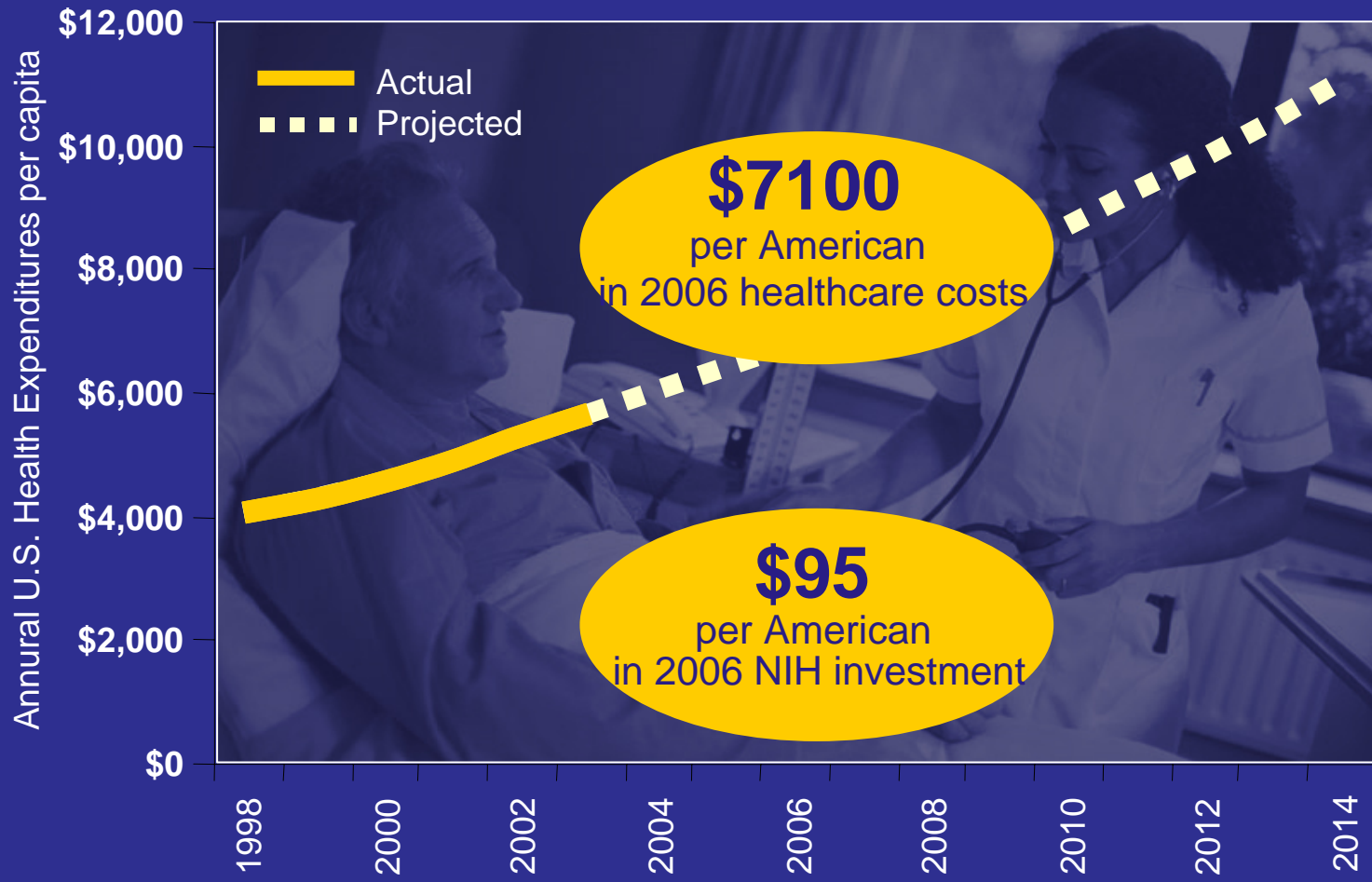
- Prostate Cancer
- Obsessive Compulsive Disorder
- Age-related Macular Degeneration

## ■ Vaccines:

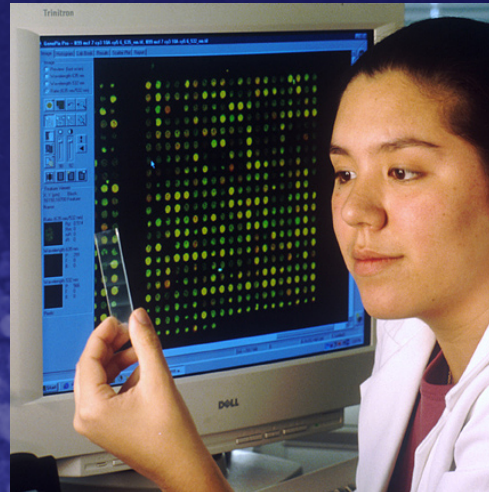
- First “global” HIV/AIDS vaccine
- First Cervical Cancer vaccine
- Expanded Avian Flu vaccine clinical trails



# Biomedical Research **Must Deliver** *Challenge of Rising U.S. Health Expenditures*



# Biomedical Research **Will Deliver** *Transforming Medicine through Discovery*

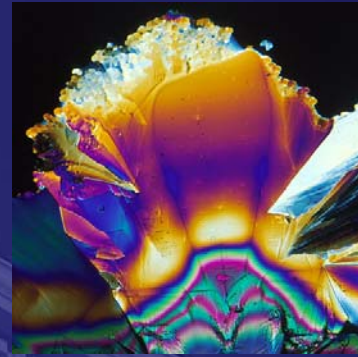


**Predictive** ↔ **Personalized** ↔ **Preemptive**



***Participatory***





# NIH *Transforming medicine through discovery*

