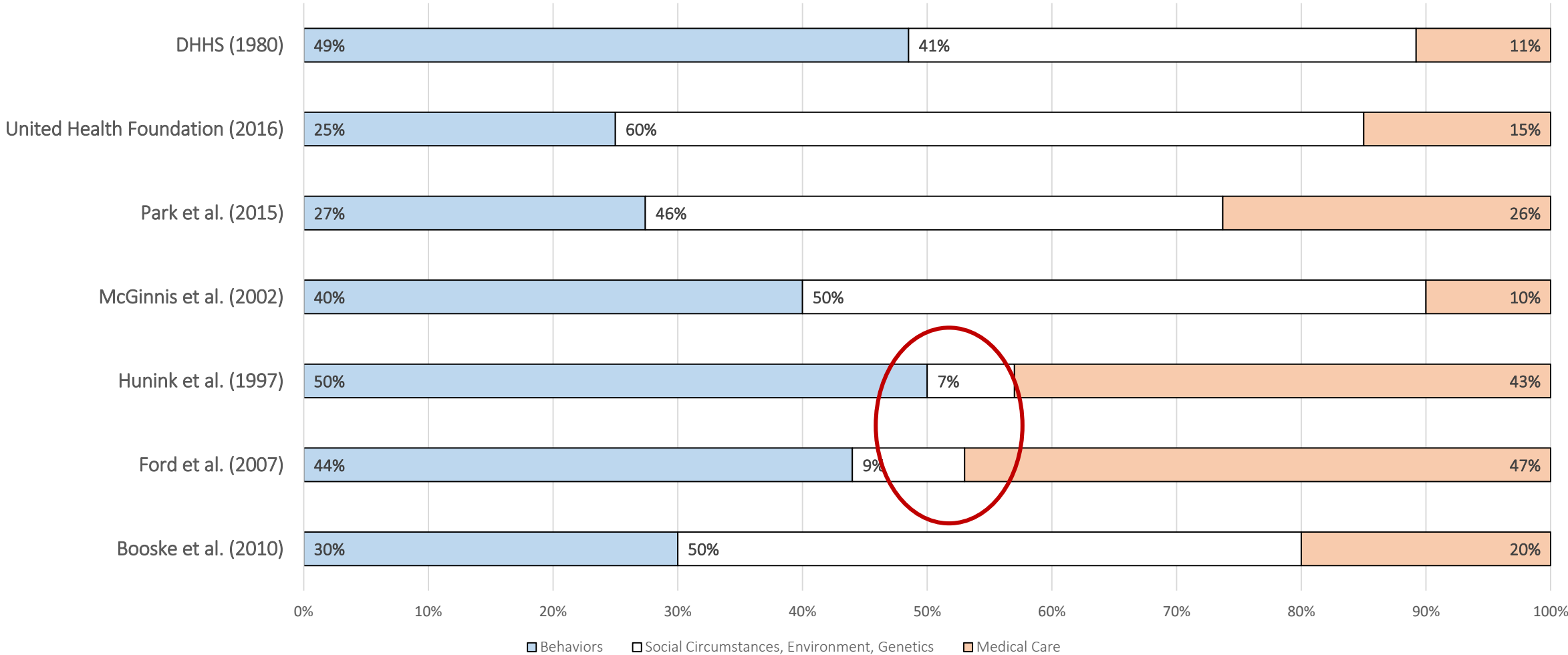


Medical Care as a Cause of Improved Health

David M. Cutler
Harvard University
dcutler@harvard.edu

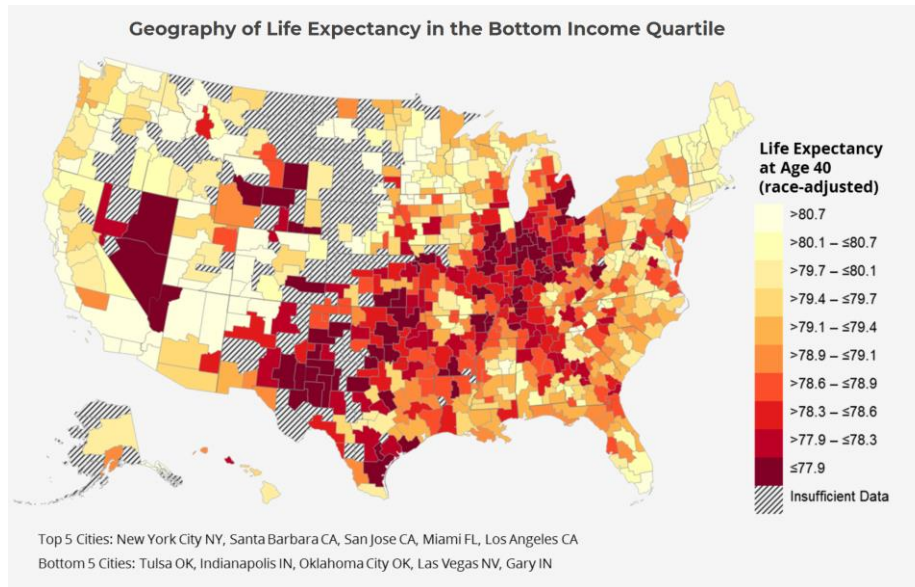
What matters for health?



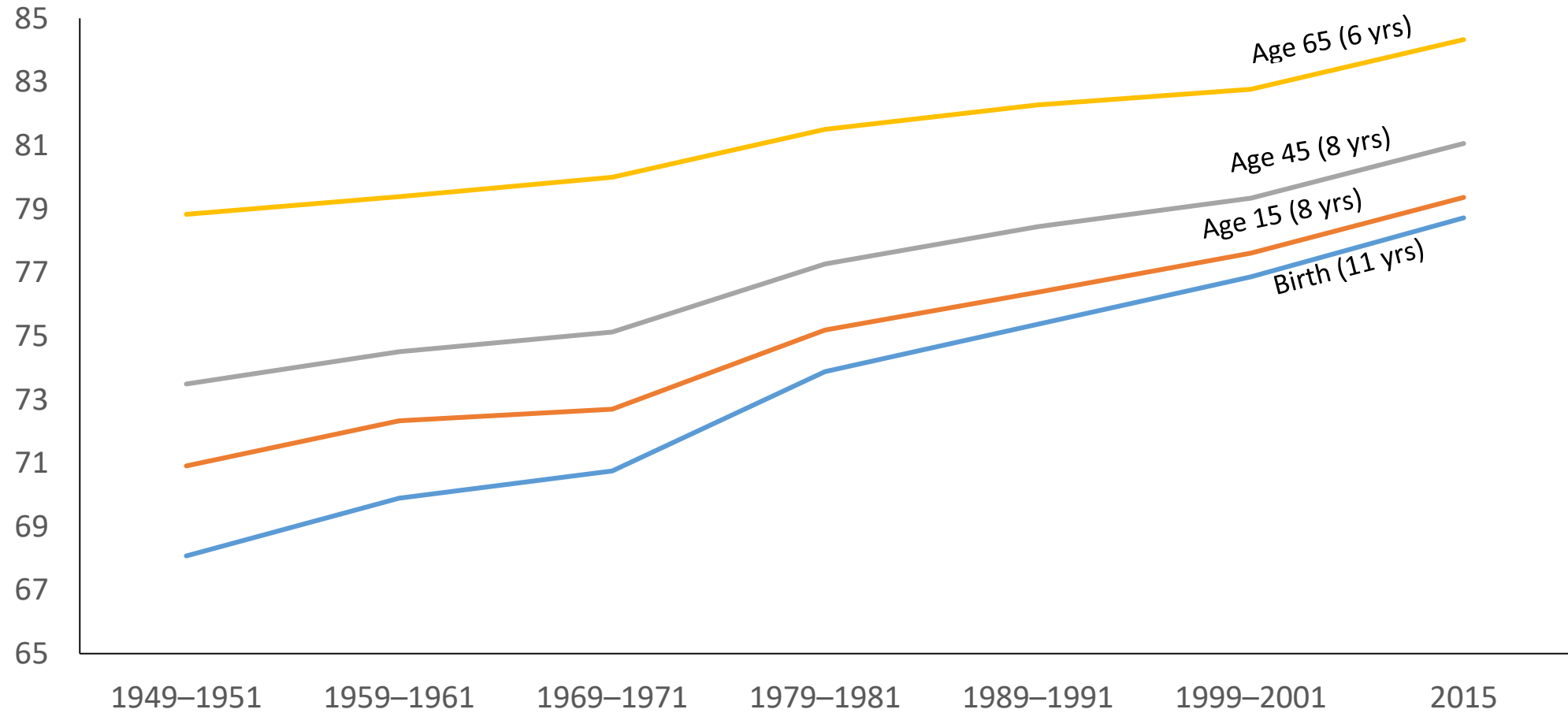
Biggest difference – cross-section v. time series

Health knowledge and technology is the same everywhere → most of difference due to behaviors and social factors

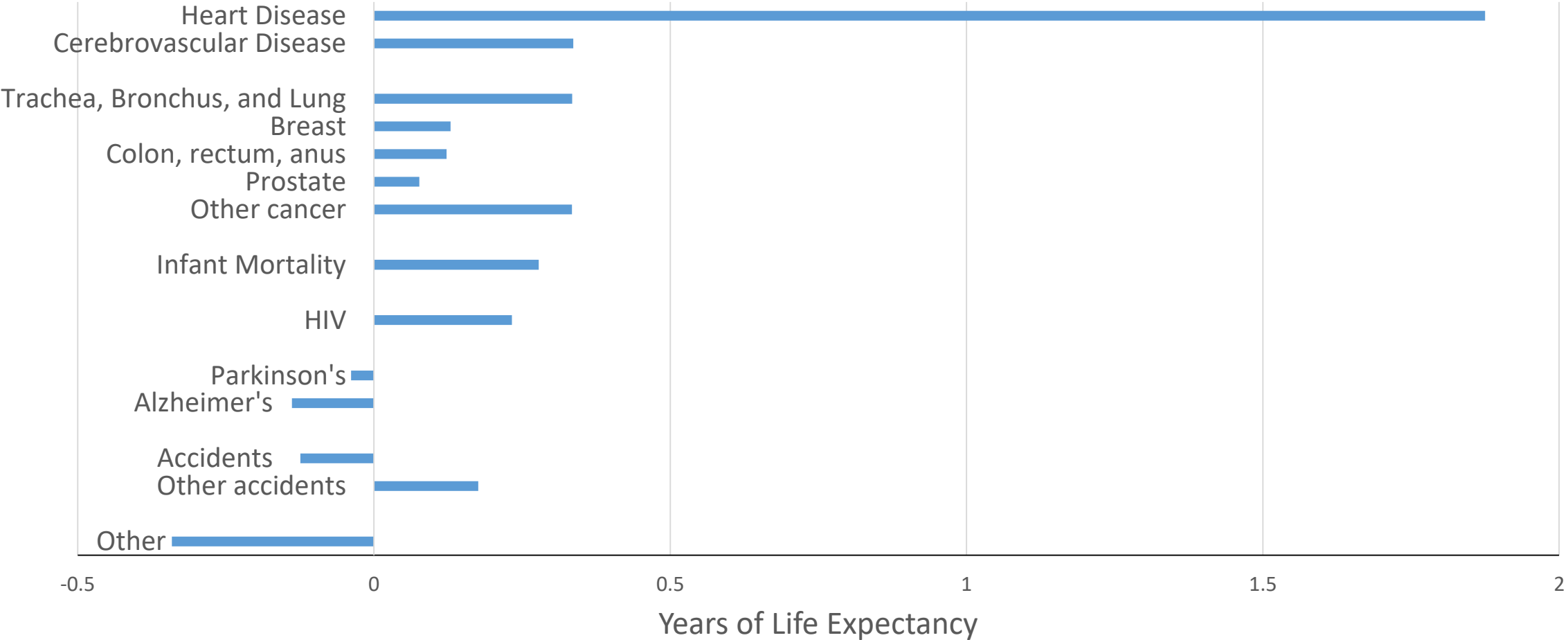
Technology is a lot better now than then → medical care matters more



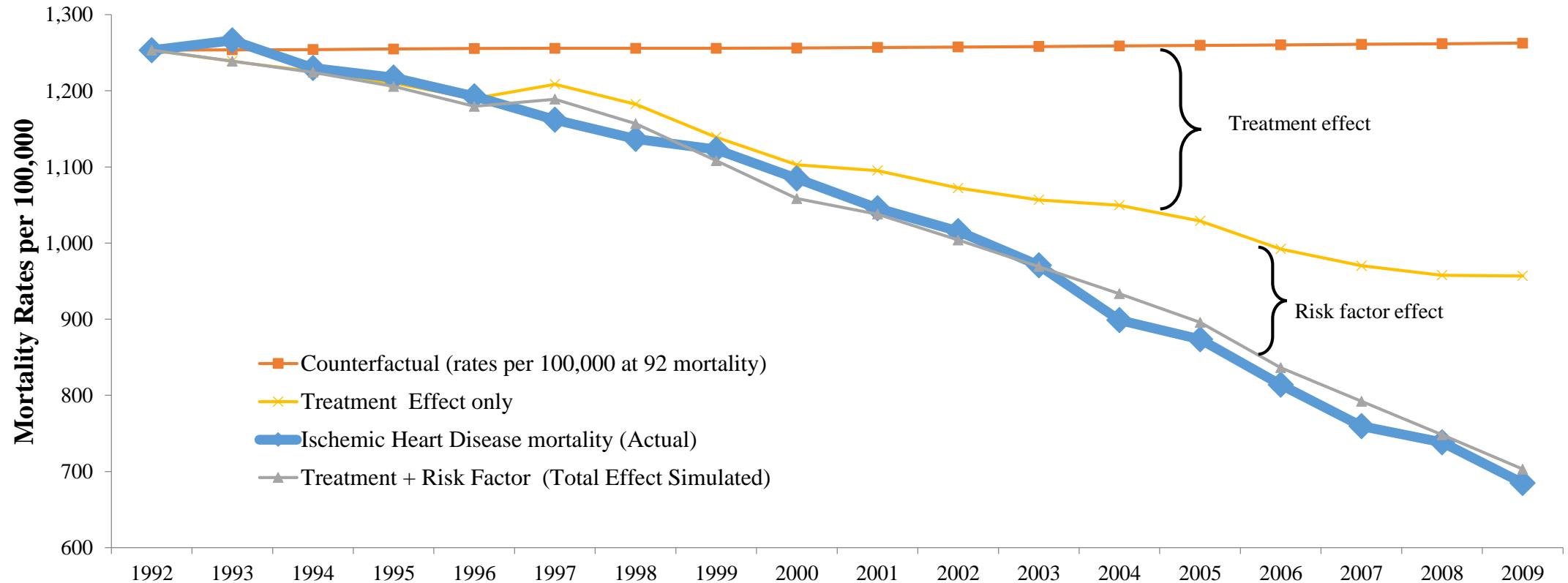
Expected age at death, by current age



Change in Life Expectancy by Condition, 1990-2014

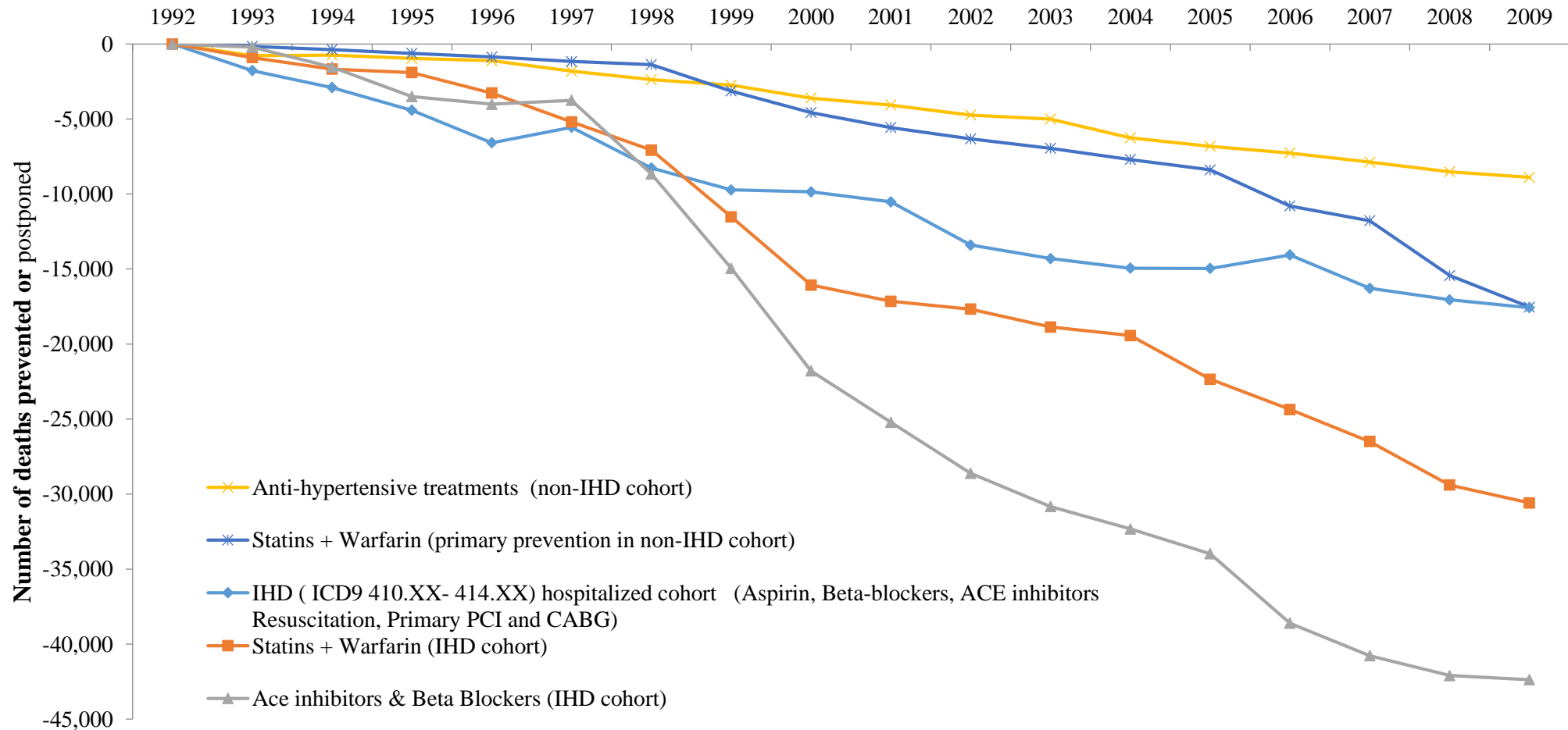


Ischemic heart disease mortality rates per 100,000: Actual vs. simulated in elderly Medicare beneficiaries



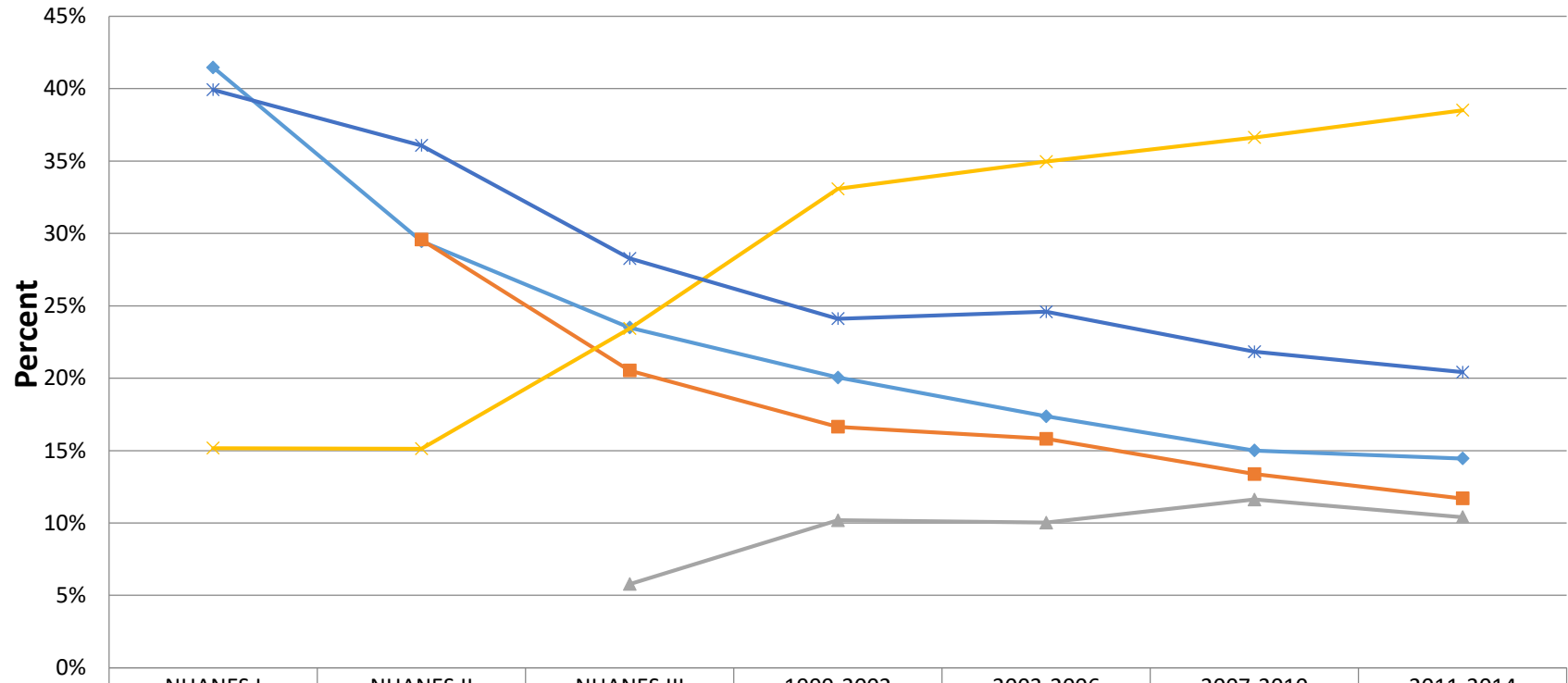
Chernew et al., 2015, based on IMPACT model of Ford et al.

Estimated deaths prevented or postponed in the elderly United States population: Treatment effect in elderly Medicare beneficiaries



Trends in Risk Factor Control

Cardiovascular risk factors (20 years and older): age-sex adjusted to 2009-2010 NHANES



	NHANES I	NHANES II	NHANES III	1999-2002	2003-2006	2007-2010	2011-2014
◆ Hypertension (uncontrolled)	41%	29%	23%	20%	17%	15%	14%
■ Hyperlipidemia (uncontrolled)		30%	21%	17%	16%	13%	12%
✕ Obese	15%	15%	23%	33%	35%	37%	39%
* Current Smoker	40%	36%	28%	24%	25%	22%	20%
▲ Diabetes (uncontrolled)			6%	10%	10%	12%	10%

My questions

1. How to get people to do what they want?
 - Take meds, stop smoking, lose weight, avoid addictive substances
 - How to talk to their doc about \$\$\$
 - Not all of this is medical, but some is
2. How to harness innovation of the medical system for good?
 - Most important areas: Pain; dementia

The importance of pain

