

# Massachusetts health care cost trends in a national context

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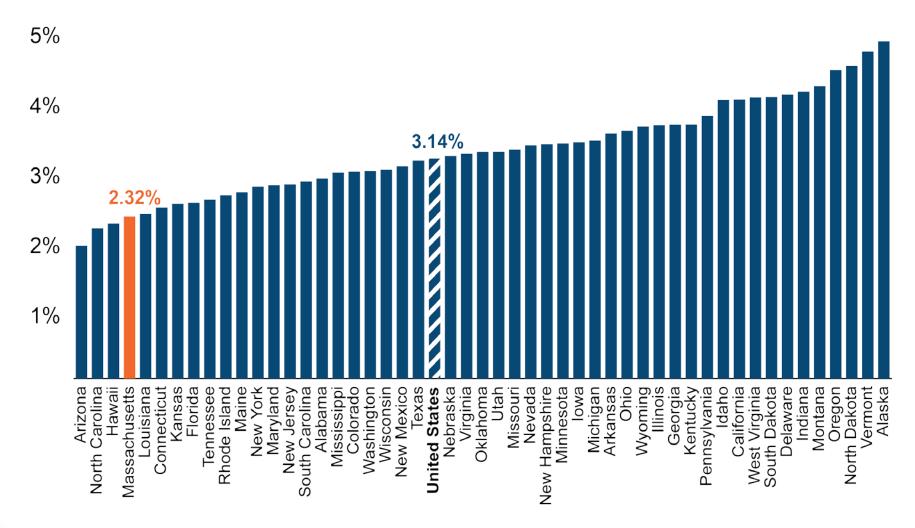
### Massachusetts no longer spends the most on health care

Personal health care spending, per capita, by state, 2009 and 2014 \$10,000 \$8,000 2009 \$6,000 \$4,000 \$2,000 Wyoming Illinois Vermont Idaho Arizona Texas Virginia Oregon Hawaii Kansas lowa Maine Alaska **Seorgia** Nevada Colorado California New Mexico Arkansas Alabama South Carolina **Tennessee** Oklahoma North Carolina Mississippi Kentucky Montana Indiana Michigan Washington United States Missouri Louisiana Florida Nebraska South Dakota Maryland Wisconsin Minnesota Pennsylvania New Jersey West Virginia North Dakota New Hampshire Rhode Island Delaware New York Connecticut Massachusetts \$11,064 \$12,000 \$10,000 \$8,000 2014 \$6,000 \$4,000 \$2,000 Georgia Massachusetts Alaska Kansas Florida lowa Illinois Maine Hawaii Wyoming Arizona Nevada Colorado New Mexico North Carolina Alabama South Carolina Fennessee Arkansas California Virginia Oklahoma Mississippi Louisiana Washington Kentucky Oregon **United States** Michigan Missouri Montana Indiana Nebraska Maryland Wisconsin New Jersey Minnesota South Dakota Pennsylvania West Virginia Rhode Island New Hampshire New York North Dakota Connecticut Vermont Delaware



### Massachusetts healthcare spending grew at the 4<sup>th</sup> lowest rate in the US from 2009-2014

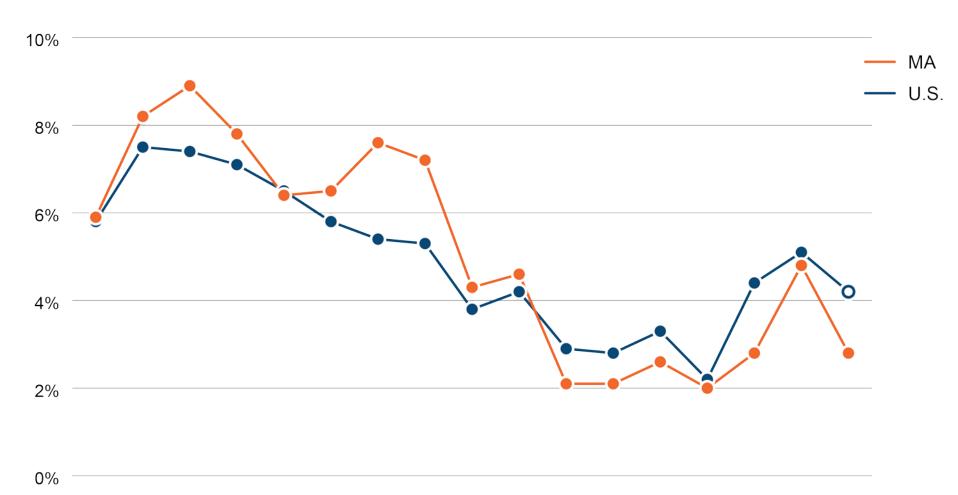
Average annual healthcare spending growth rate, per capita, 2009-2014





### Healthcare spending growth continued to be below the U.S. average in 2015 and 2016

Annual growth in per capita healthcare spending, MA and the U.S., 2000-2016



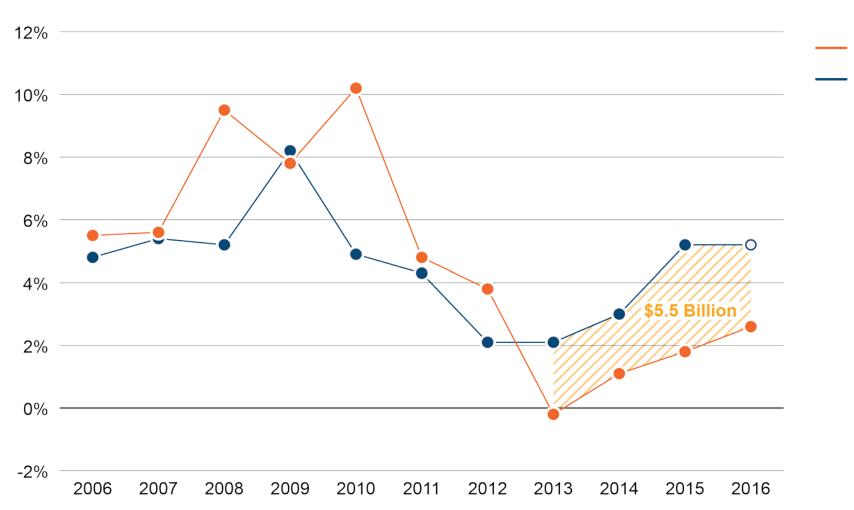
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016



Note: U.S. figure for 2016 is partially projected.

## In recent years, growth in spending on private health insurance in Massachusetts has been consistently lower than national rates

Annual growth in commercial health insurance premium spending from previous year, per enrollee, MA and the U.S.





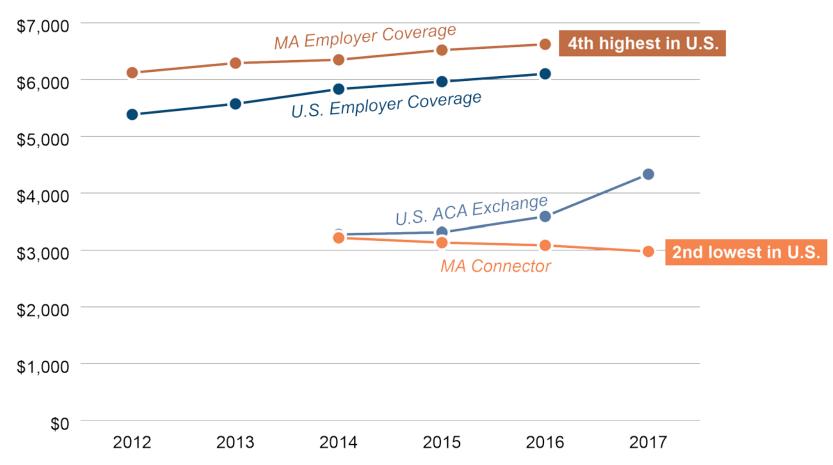
Notes: U.S. data includes Massachusetts. Center for Health Information and Analysis data are for the fully-insured market only. U.S. data for 2016 is partially projected.

MA

# Annual premium for single coverage

### Low growth in commercial spending has been driven in part by MA Connector's 2<sup>nd</sup> lowest premiums in the U.S.

Average annual premium for single coverage in the employer-sponsored market and average annual unsubsidized benchmark premium for a 40-year old in the ACA Exchanges, MA and the U.S.

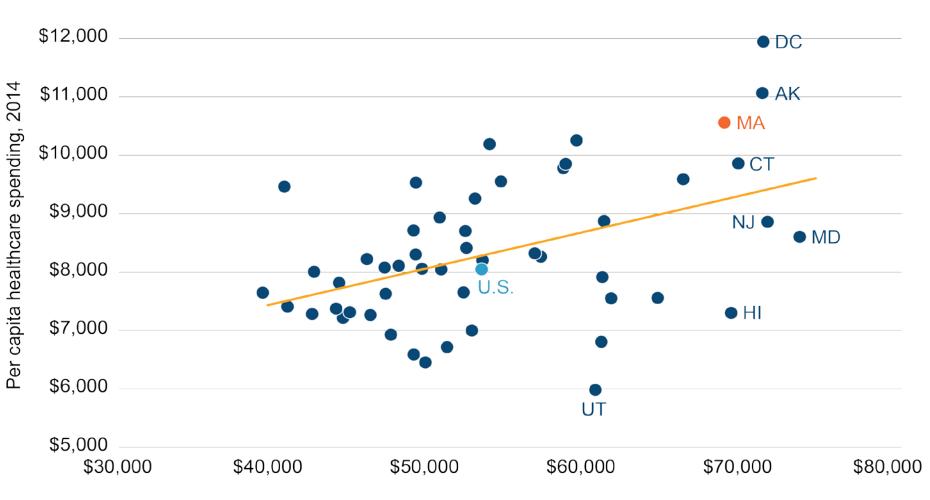




Notes: Exchange data represents the weighted average annual premium for second-lowest silver (Benchmark) plan based on country level data in each state. Premiums do not include any subsidies. Employer premiums are based on the average premiums according to a large sample of employers within each state. Sources: Kaiser Family Foundation analysis of premium data from healthcare.gov; US Agency for Healthcare Quality, Medical Expenditure Panel Survey (insurance component), 2012-2016

# Healthcare spending Massachusetts remains high, even accounting for higher levels of income

Healthcare spending per capita and median household income, by state, 2014

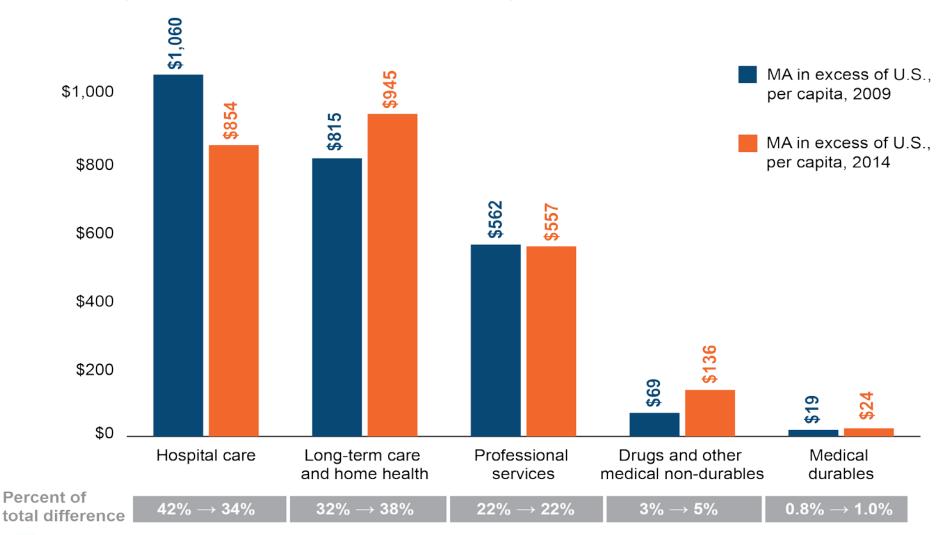




Median household income, 2014

## Hospital care and long-term care are the biggest contributors to excess spending in Massachusetts

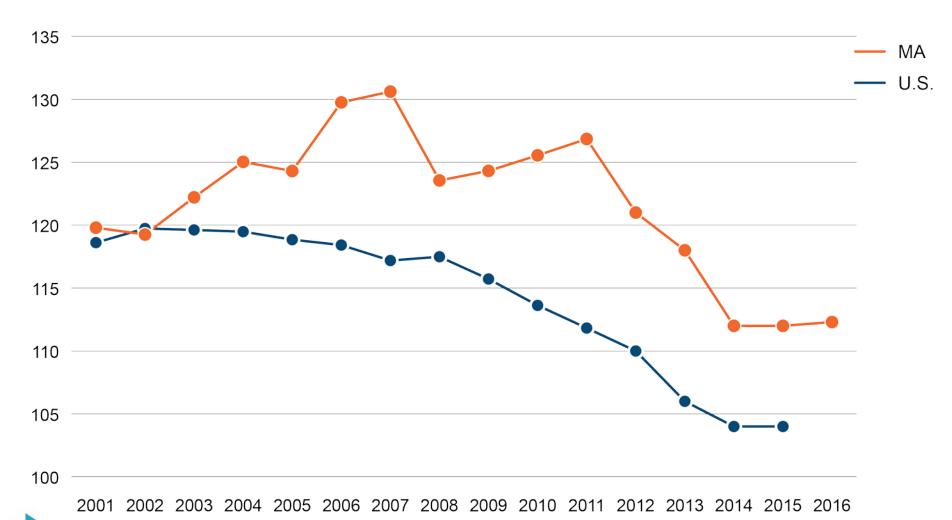
Spending per person in MA in excess of the U.S. average, 2009 and 2014





### After years of steady decline, the inpatient admissions rate in Massachusetts has started to increase and is now 8% above the U.S. rate

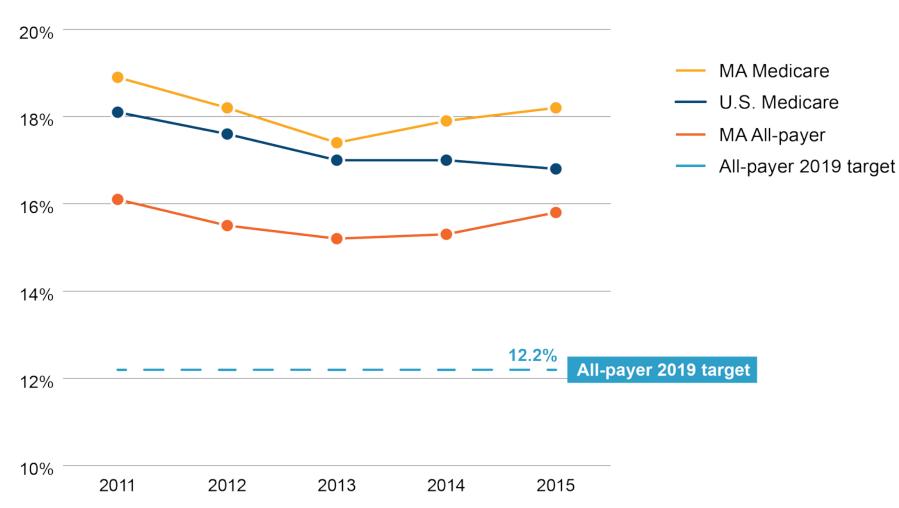
Inpatient hospital admissions per 1,000 residents, MA and the U.S., 2001-2016



Source: Kaiser Family Foundation analysis of American Hospital Association data (2001-2015); HPC analysis of Center for Health Information and Analysis Hospital Inpatient Database (MA 2016)

### Readmission rates are increasing in Massachusetts while falling elsewhere

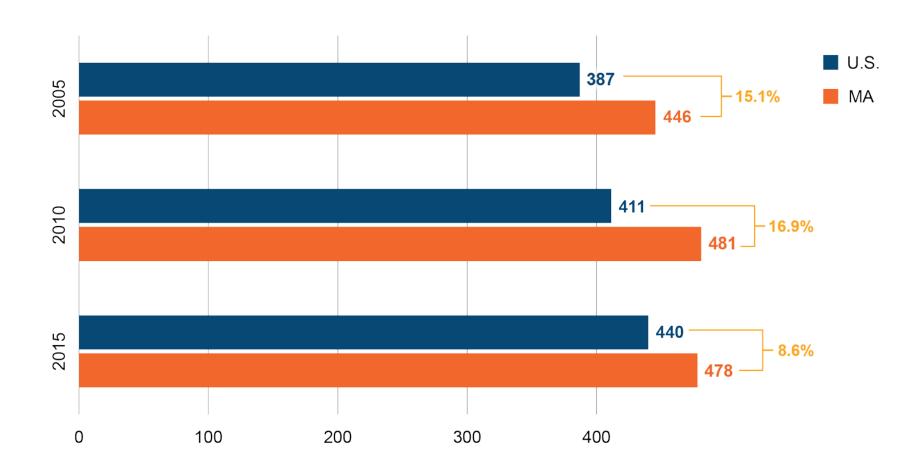
Thirty-day readmission rates, MA and the U.S., 2011-2015





# The rate of emergency department visits has improved, but remains 9% higher than the U.S.

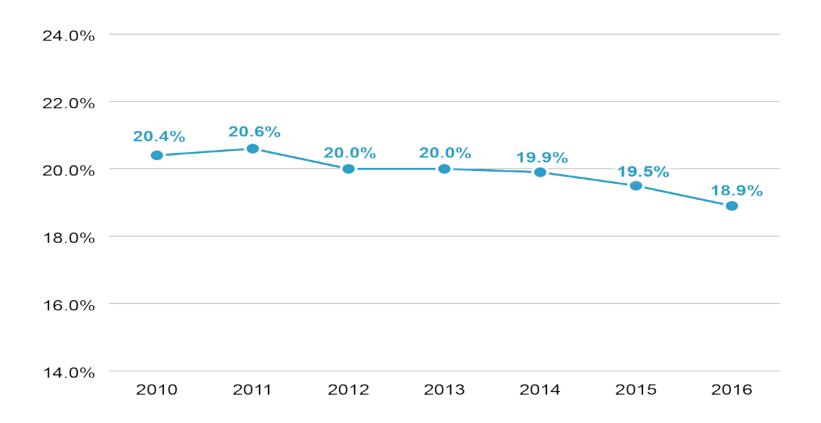
Emergency department visits, per 1,000 residents, MA and the U.S., 2005, 2010, and 2015





### The rate of discharge to institutional post-acute care continues to decline

Percent of patients discharged to institutional post-acute care following an inpatient admission, 2010-2016

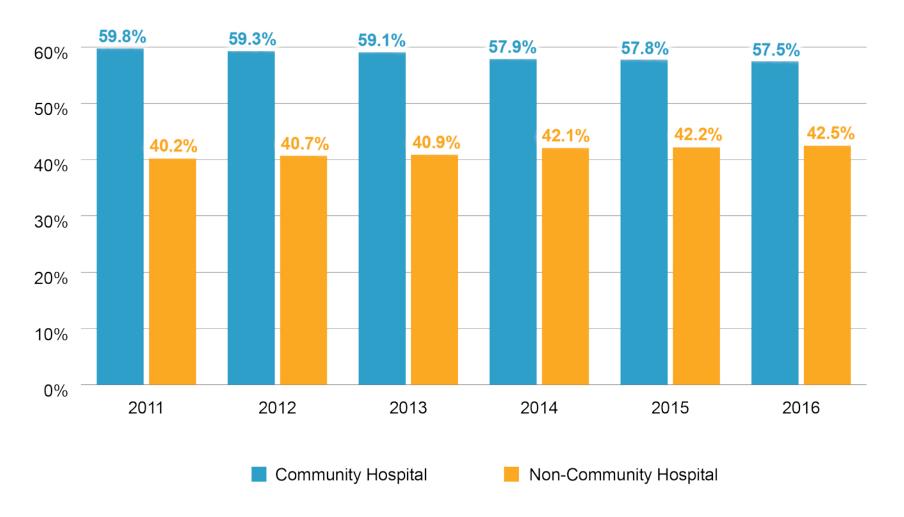




Notes: Institutional post-acute care settings include skilled nursing facilities, inpatient rehabilitation facilities, and long-term care hospitals. Rates adjusted using ordinary least squares (OLS) regression to control for age, sex, and changes in the mix of mix of diagnosis-related groups (DRGs) over time. Discharges from hospitals that closed and specialty hospitals, except New England Baptist, were excluded. Several hospitals (UMass Memorial Medical Center, Clinton Hospital, Falmouth Hospital, Marlborough Hospital) were excluded due to coding irregularities in the database.

## The share of community-appropriate discharges taking place at community hospitals continues to decline

Share of community appropriate discharges, by hospital type, 2011-2016



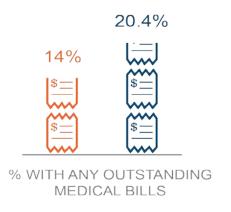


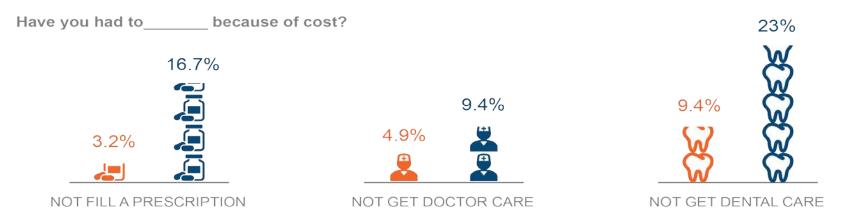
Notes: Discharges that could be appropriately treated in community hospitals were determined based on expert clinician assessment of the acuity of care provided, as reflected by the cases' diagnosis-related groups (DRGs). The Center for Health Information and Analysis defines community hospitals as general acute care hospitals that do not support large teaching and research programs.

# Access and affordability challenges remain in Massachusetts, especially for families with self-reported health problems

Averages for middle-income families, grouped by self-reported health status







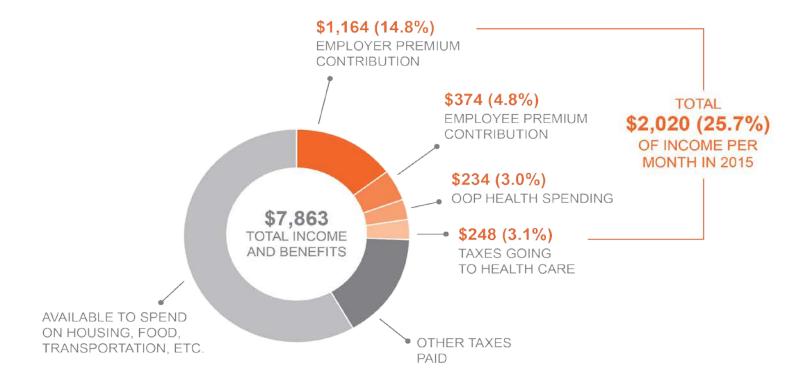


Worse health



### Health care costs represent a high burden on all Massachusetts families, leaving less for other priorities

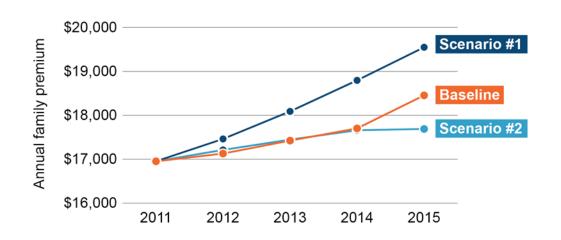
- Monthly budget for an average Massachusetts family of four with median income (\$75,000) that obtains health insurance from a family policy through an employer.
- Data are for 2015.
- The family's total monthly compensation received from the employer is \$7,863



Note: Compensation paid by employers not counted in income includes the employer health insurance premium contribution and employer share of payroll taxes. Share of taxes devoted to health care include spending on Medicare, Medicaid and other federal health programs.



### How does healthcare spending growth affect family and state budgets?



- Baseline scenario
- Premiums grew at US average rate from 2011-15
- Premiums grew at MA rate of inflation 2011-15

	Baseline	Scenario #1		Scenario #2	
	Baseline data	If premiums grew at US average rate from 2011-15	Change in 2015	If premiums grew at MA rate of inflation 2011-15	Change in 2015
State: Health Insurance spending (\$Billion)	\$23.6	\$25.0	\$1.4B	\$22.6	-\$1.0B
State: Income Tax revenue collected (\$Million)	\$14,374	\$14,025	-\$349M	\$14,618	\$244M
Family: Annual raise	2.0%	1.0%	-1.0%	2.7%	0.7%
Family: Annual take-home pay after taxes and health care costs	\$54,785	\$54,050	-\$734	\$55,298	\$513



Notes: Projections assume a full tradeoff between health insurance premium spending and salaries. See Emanuel, Ezekiel J., and Victor R. Fuchs. "Who Really Pays for Health Care?: The Myth of "Shared Responsibility"." *Jama* 299.9 (2008): 1057-1059