

What Can We Do About the Cost of Health Care?

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About Initiative 18 | 11

How Did We Get Here?

- History
- Goals
- Phases
 - 1: Inaugural event and report
 - 2: Actionable research, strategic initiatives
 - 3: TBD
- www.soa.org/Initiative1811



Our Partners

The SOA Team

- Brian Pauley, Chair
- Joan Barrett
- Joe Wurzburger, Health Staff Fellow

Kaiser Family Foundation

- A health information organization that analyzes policy issues, tracks public opinion through polling, and informs the public through journalism
- Not part of Kaiser Foundation
- Key websites
 - www.kff.org (in-depth articles)
 - www.khn.org (Kaiser Health News: Current events)
 - www.healthsystemtracker.org (Peterson-Kaiser joint venture, data repository)

Healthcare Finance Management Association

- a membership organization that brings together executives and financial managers from provider organizations, physician practices, and health plan markets to collaborate and address the many financial challenges the US healthcare system faces today.
- www.hfma.org



What's the Problem?

What is the Problem and What Can Do About It?

What's the problem?

- International comparisons
- A closer look at the U.S.
 - Organizational structure
 - Transactional view
 - Consumer view
- What can we do about it?



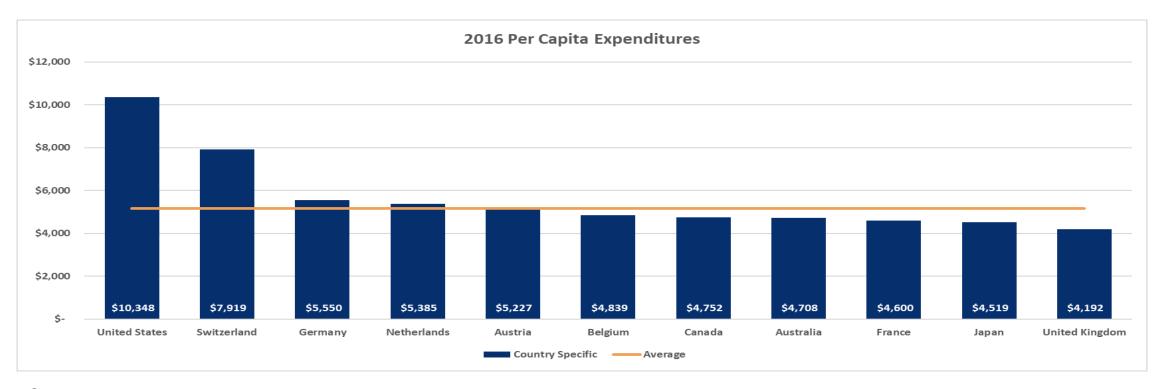
The Health Care Identity

One Person's Costs

Another Person's Income



Per Capita Expenditures



Comments:

- The 2016 per capita expenditures in the U.S. is \$10,348, roughly twice that of comparable countries.
- This translates to 18% of GDP for the United States compared to 11% for comparable countries.

Health Care System Performance Rankings

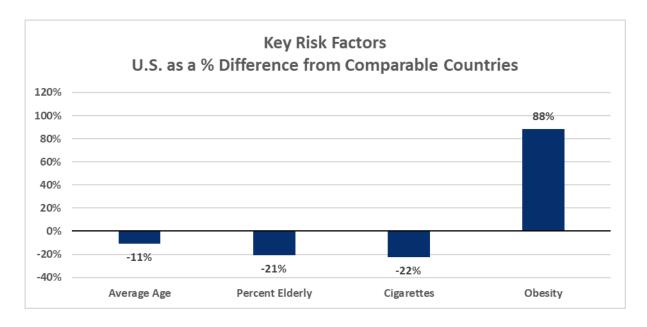
	AUS	CAN	FRA	GER	NETH	NZ	NOR	SWE	SWIZ	UK	US
Overall Ranking	2	9	10	8	3	4	4	6	6	1	11
Care Process	2	6	9	8	4	3	10	11	7	1	5
Access	4	10	9	2	1	7	5	6	8	3	11
Administrative Efficiency	1	6	11	6	9	2	4	5	8	3	10
Equity	7	9	10	6	2	8	5	3	4	1	11
Health Outcomes	1	9	5	8	6	7	3	2	4	10	11

Comments:

- Overall, the U.S. ranks last in overall quality vs. comparable countries.
- Life expectancy in the U.S. is 78.8 vs. 82.0 in comparable countries



Risk Factors



Comments

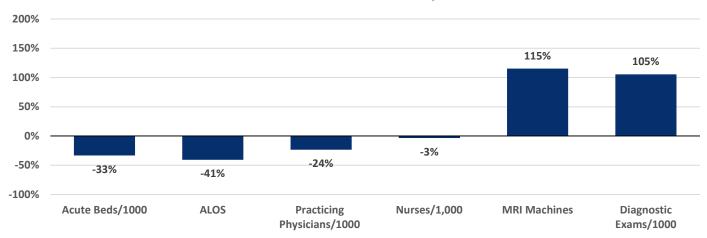
- The U.S. tends to be younger than comparable countries and has fewer smokers.
- The obesity rate, however, is 88% higher than in other countries.

Source: https://www.healthsystemtracker.org/chart-collection/know-social-determinants-health-u-s-comparable-countries/?_sft_category=health-well-being#item-though-u-s-population-aging-younger-average-age-smaller-elderly-population-comparable-countries



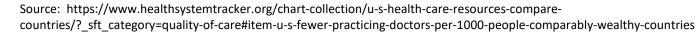
Relative Resources





Comments

- The U.S. has fewer hospitals and physicians than comparable countries.
- The U.S. has more MRI machines and does more diagnostic tests than comparable countries.





Healthcare Systems Models

Model	Description	Applications
Bismarck Model	 Private Initiatives/companies Non-Profit only No pre-existing conditions Government cost-control 	 Germany and Japan U.S. commercial, except for non-profit requirement and government cost control
Beveridge Model	 Government is single-payer Most doctors are government employees 	 United Kingdom U.S.: Native Americans, military personnel and veterans
National Health Insurance	Government is single-payerProviders are private entities	CanadaU.S. Medicare
Out-of-Pocket	Most services paid out of pocketSome core services may be available	India, most poor countriesU.S. uninsured

Comments:

• Micro-insurance and non-government organizations play a key role in out-of-pocket countries like India and many African countries.





Overview of Administrative Responsibilities

Business	Primary Funding	Major Risk Taker	Plan Suite Design	Primary Eligibility Owner	Claims Adjudication and Provider Contracting
Individual Insurance	 Policyholder 	Health Plan	Health Plan	Health Plan	Health Plan
Group Insurance	• Employer	• Health Plan	Health Plan	• Employer	Health Plan
Self-Insured	• Employer	• Employer	• Employer	• Employer	Health Plan
Traditional Medicare	• CMS	• CMS	• CMS	• CMS	 Medicare Administrative Contractors
Medicare Advantage	• CMS	Health Plan	Health Plan	• CMS	Health Plan
Fee-for-Service Medicaid	• CMS/State	 CMS/State 	• State	• State	State determined
Managed Medicaid	CMS/State	Health Plan	Health Plan	• State	Health Plan

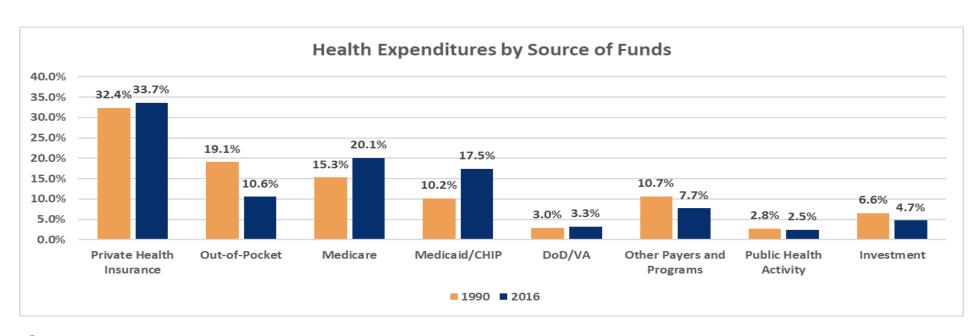


Examples of Quality Measure Developers

Organization	Туре	Products	Comments
National Quality Forum (NQF)	• Non-Profit	Recommendations to federal agencies	 400 member organizations
National Committee for Quality Assurance (NCQA)	• Non-Profit	 Evidence-based program for case- management accreditation Consumer Assessment of Healthcare Providers and Systems 	HEDIS measures health plan performance
Healthy People	Government	Prioritizes health efforts	 Current version Healthy People 2020
American Society of Health Risk Management	 Provider association 	CredentialingEducation	 Emphasis on patient care
Other	Health PlansSoftwareDevelopers	Provider profilingNetwork contractingMarketing/Employer reporting	



National Expenditures by Source of Funds

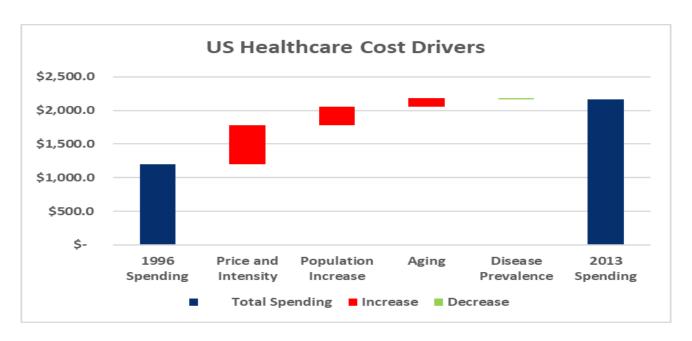


Comments

- Total spending in the U.S. in 2016 was approximately \$3.3 trillion or 18% of GDP.
 - In 2016 dollars, a 1.0% change in expenditures translates to \$33 billion and a 0.1% change translates to \$3 billion.
- There has been a significant decrease in out-of-pocket spending since 1990 offset by increases in private health insurance, Medicare and Medicaid spending.



"It's The Prices, Stupid"

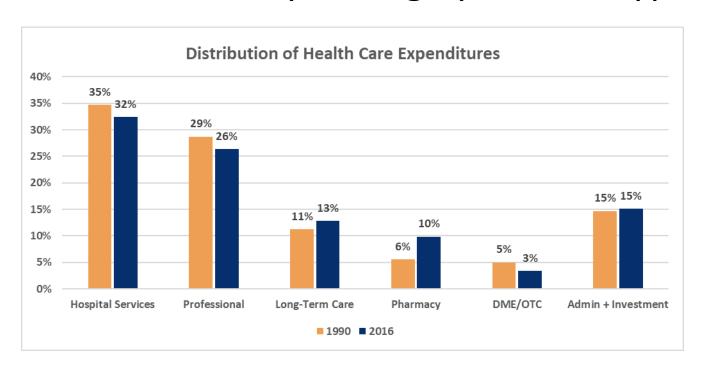


Comments:

- Several studies have shown that prices have been the major driver of trends
- In the much-acclaimed article "It's the Prices, Stupid", the authors demonstrated that prices in the U.S. appear to be higher than comparable countries on a service by services basis



Distribution of Spending by Service Type



Comments

- Since 1990 there has been a shift from hospital and professional services to long-term care and pharmacy spending.
- Admin, which refers to insurance-related services, has remained steady over the years.
- Admin, however, does not include provider-related services

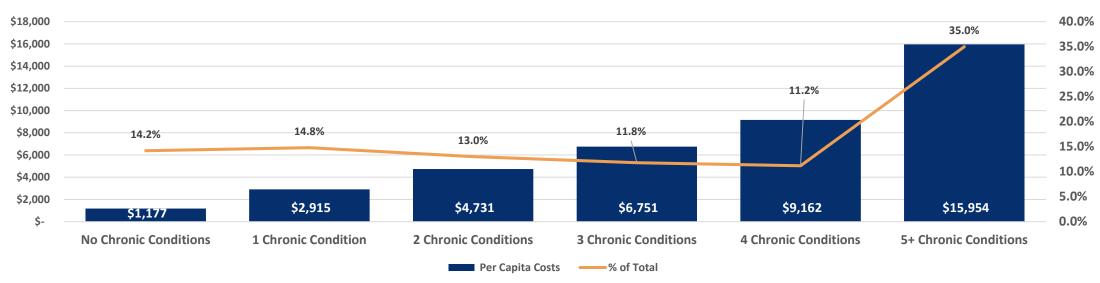
Sources:

- https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/NationalHealthExpendData/Downloads/highlights.pdf
- http://www.healthcostinstitute.org/report/2016-health-care-cost-utilization-report/



Chronic Disease Overview





Comments:

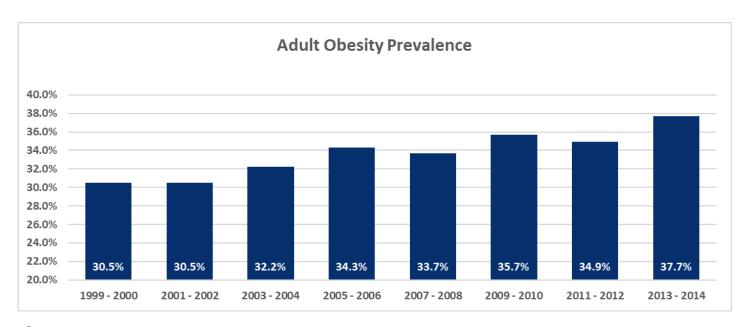
- Chronic diseases are those that are expected to last at least 3 months. For adults, the most prevalent
 conditions are uncontrolled hypertension (high blood pressure) and hyperlipidemia (high cholesterol and
 high triglycerides). For children the most common conditions are asthma and allergies.
- 86% of healthcare spending is for patients with one or more chronic conditions; 71% of spending is for patients with more than one chronic condition.
- Key risk factors include obesity, smoking, poor medication compliance

Source

- https://www.ahrq.gov/sites/default/files/wysiwyg/professionals/prevention-chronic-care/decision/mcc/mccchartbook.pdf
- https://www.cdc.gov/nchs/data/hus/hus16.pdf#053



Obesity and Smoking



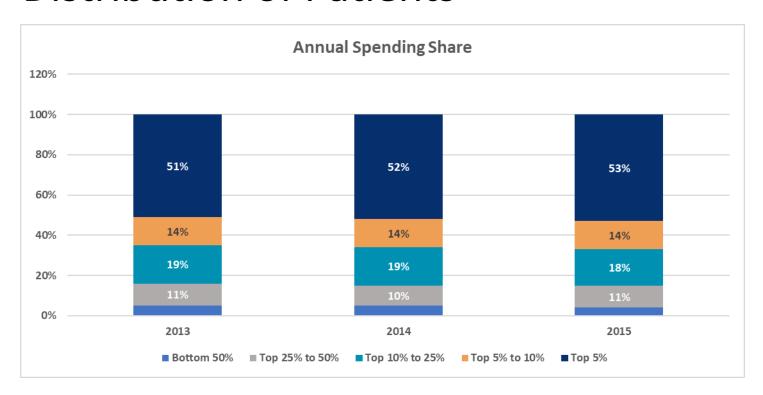
Comments:

- Two major risk factors for chronic diseases are obesity and smoking.
- The adult obesity rate in the U.S. is 37.7%, a 24% increase since the 1999 2000 time period.
- Similarly, the youth obesity rate is 17.2%, also a 24% increase.
- Adult smoking rates have decreased from 42.4% in 1965 to 15.1% in 2015, a 64% drop.
- Apps, FitBits, programs will help, but how do we measure long-term effectiveness?





Distribution of Patients



Comments:

- The top 5% of all patients account for 50% of the costs.
- From 2013 to 2015, less than 40% of the top 5% spenders were in the top 5% in the previous years.
- About 25% of all traditional Medicare spending is for patients in the last year of life and this proportion has held for many years.

Sources:



What Can We Do About It?

What Can We Do About It?

On-going Efforts

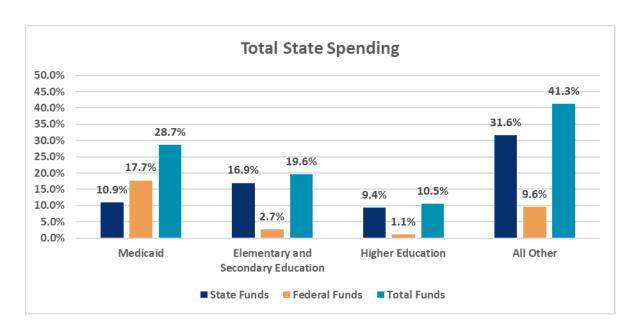
- State and local solutions
- Value-Based reimbursement methodologies (VBR)
- Consumerism
- Technology in patient care
- Data and data systems
- Clinical Research

Disruptors

- Public policy at the Federal level
- Block-chain
- What are we missing?



State Budget Implications



- Key tools for a state
 - Waivers for Medicaid and the Individual market
 - State Innovation Models
 - Legislative options

Source: https://www.macpac.gov/subtopic/medicaids-share-of-state-budgets



Other State and Local Solutions

Players

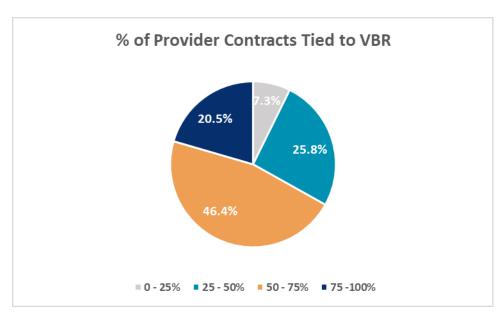
- Public health organizations
- Hospital-community collaborations
- Local governments (city, county)
- Disease-centric programs
- Community health centers and rural health centers
- Health plans
- Employers

Emphasis

- Services (vaccines, screenings, etc.)
- Identifying gaps in care
- Managing chronic disease
- Delivery of emergency services



Value-Based Reimbursement (VBR)

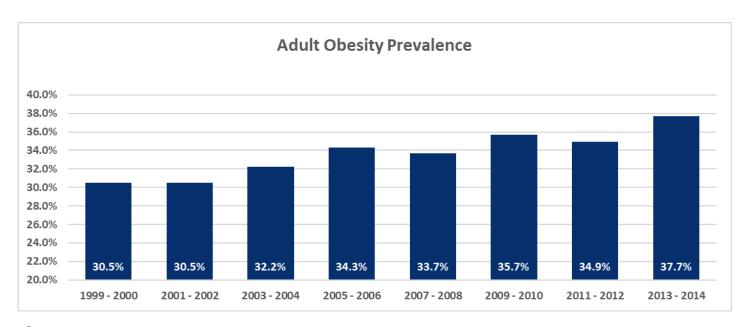


Comments:

- Cultural change too early to really measure success
- Quality measures often based on activity, not outcomes
- In general, providers are concerned about time spent on paperwork
- Hospital-physician consolidations may be a factor
- 23% of all active physicians are over age 65



Consumerism



Comments:

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- The adult obesity rate in the U.S. is 37.7%, a 24% increase since the 1999 2000 time period.
- Similarly, the youth obesity rate is 17.2%, also a 24% increase.
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Technology in Direct Patient Care

Examples

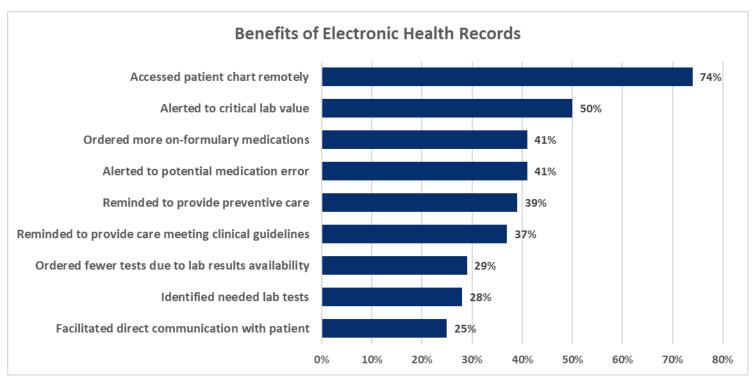
- Computer-assisted imaging
- Robotic surgery
- Targeted gene therapy
- Telemedicine /Telehealth

The role of the physician

- Treatment recommendations
- Validating results
- Coordination of care
- Communications with patients



Electronic Health Records



Comments:

- By 2017, electronic health record adoption rate was 67%.
- Providers are still dissatisfied with their systems.
- Results available on-line to consumers
- Interoperability Road Map, Block Chain Technology coming soon



Clinical Research

Unsupervised learning/Artificial intelligence

- Recognizes patterns
- Examples
 - Predicting large claims/hospitalizations
 - Candidate drugs to treat a condition

Limitations

- No audit trail to monitor experience, measure risk and opportunity
- Clinical trials/other tests still required to validate results



Lowering Rx Drug Costs is the Public's Top Health Policy Priority for Congress

Percent who say each of the following is extremely important for Congress to work on now:

<u>RANK</u>	TOTAL	<u>DEMOCRATS</u>	<u>INDEPENDENTS</u>	REPUBLICANS	
1	Lowering Rx drug costs (54%)	Lowering Rx drug costs (64%)	Lowering Rx drug costs (53%)	Lowering Rx drug costs (48%)	
2	Continuing ACA protections for pre-existing conditions (46%)	Continuing ACA protections for pre-existing conditions (63%)	Continuing ACA protections for pre-existing conditions (46%)	Repealing and replacing the ACA (40%)	
3	Protecting people from surprise out-of-network bills (43%)	Protecting people from surprise out-of-network bills (51%)	Protecting people from surprise out-of-network bills (45%)	Protecting people from surprise out-of-network bills (34%)	
4	Repealing and replacing the ACA (23%)	Implementing a national Medicare-for- all plan (32%)	Repealing and replacing the ACA (21%)	Continuing ACA protections for pre-existing conditions (27%)	

What Are We Missing?

- Cost-effectiveness measurement techniques
 - Long-term impact
 - Relative impact
- Risk and opportunity measurement
- Techniques to monitor experience
- Transferability of findings



What's Next for the Profession?

Key Challenges to the Profession

What skills do we need to build or enhance?

What can we do to build our knowledge base?

How can we make sure the voice of the actuary is heard?



Our Toolkit

The SOA

- Funded Research
- Health Section Council strategic initiatives
- Open Health Section Council sub-groups
- Continuing/basic education
- Golin

The Academy

- Issue briefs
- Hill visits
- Letters to policymakers

Initiative 18/11

• Joint sponsorships with other organizations: Research, webinars, etc.



Initiative 18 | 11: Phase 2

Managed Care 3.0 Strategic Initiative

- What does the future of managed care look like?
- What do we need to do to be ready for this?
- Sarah Osborne, Chair

Pharmacy Strategic Initiative

- Emphasis on transparency on the pharmacy process
- Greg Warren, Chair

• 5/50 Research Project

- Predicting and analyzing the 5% of the population that accounts for 50% of the total costs
- Joan Barrett, Chair



Initiative 18 | 11: Phase 3

• Your thoughts?

