# THE JOURNEY TO ACCOUNTABLE CARE

# ELLIOTT S. FISHER, MD, MPH

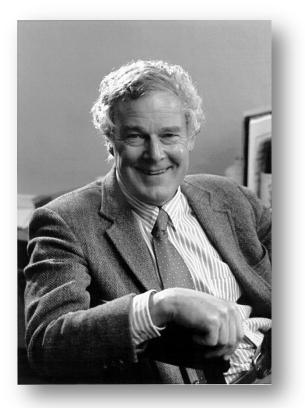
JAMES W. SQUIRES PROFESSOR OF MEDICINE GEISEL SCHOOL OF MEDICINE AT DARTMOUTH

**DIRECTOR, CENTER FOR POPULATION HEALTH** THE DARTMOUTH INSTITUTE FOR HEALTH POLICY AND CLINICAL PRACTICE









#### Small Area Variations in Health Care Delivery

A population-based health information system can guide planning and regulatory decision-making.

John Wennberg and Alan Gittelsohn

Recent legislation has extended planning and regulatory authority in the health field in a number of important areas. The 1972 amendments to the impact of regulatory decisions on the equality of distribution of resources and dollars and the effectiveness of medical care services.

Source: Science, December 14, 1973; Volume 182, pp 1102-08.



# A brief summary

# Health policy (generally) has assumed:

Science mediated through the professional authority granted to expert physicians produces the best care possible for both individuals and populations

#### Science now tells us:

- Evidence for many current treatments is insufficient. Even when evidence is good, failures of "execution" are common.
- (2) Whether a treatment is right for a patient depends on their preferences and values.
- (3) Waste is rampant, because supply and provider opinion determine utilization rates.

#### **Small Area Variations** in Health Care Delivery A population-based health information system can guide planning and regulatory decision-making. John Wennberg and Alan Gittelsohn ion has extended pla nd regulatory authority in the equality of distribution of a field in a number of important and dollars and the effe 1972 amendments to the edicare Spend per capita 2006 10.250 to 17.184 (55 9,500 to < 10,250 (69 8,750 to < 9,500 (64 $8\,000\,\mathrm{to} < 8\,750$ Annals of Internal Medicine ARTICLE The Implications of Regional Variations in Medicare Spending. Part 1: The Content, Quality, and Accessibility of Care

Elliott S. Fisher, MD, MPH; David E. Wennberg, MD, MPH; Thérèse A. Stukel, PhD; Daniel J. Gottlieb, MS; F.L. Lucas, PhD; and Étoile L. Pinder, MS

#### Suggesting an alternative path:

Doing the right thing – and doing it right Doing the right thing – for the right patient Doing the right thing – and no more A learning system: improvement science Make sure care is aligned with patient preferences Integrate; monitor performance, align incentives

# With disappointing results

# The Journey to Accountable Care

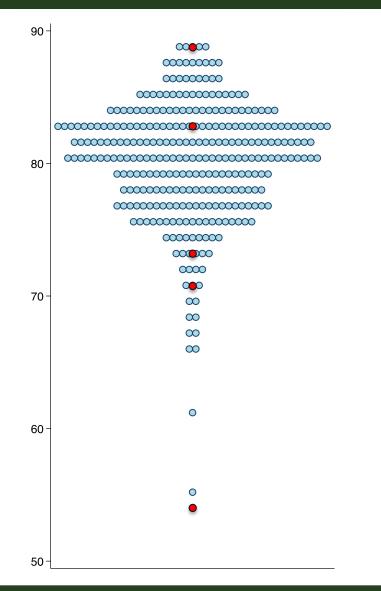




Category	Definition
Effective Care	<ul> <li>Services of proven effectiveness that involve no significant trade-offs — all patients with specific medical needs should receive them.</li> <li>Variation in process a major influence.</li> </ul>



# Effective Care: Regional Variation



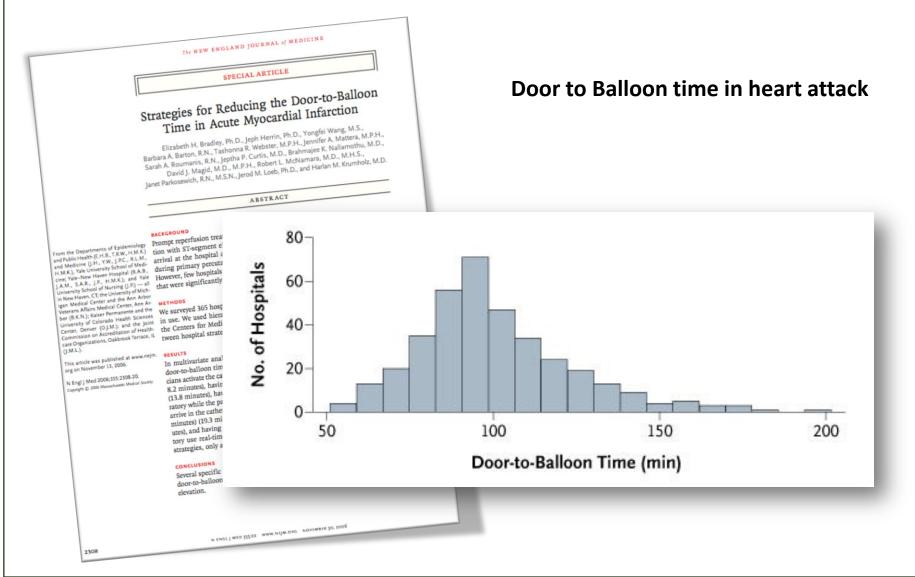
### Percent of Diabetic Medicare Enrollees Receiving Blood Lipids Test (2010)

89%
83%
76%
73%
54%

Source: The Dartmouth Atlas



# **Effective Care: Hospital-Level Variation**

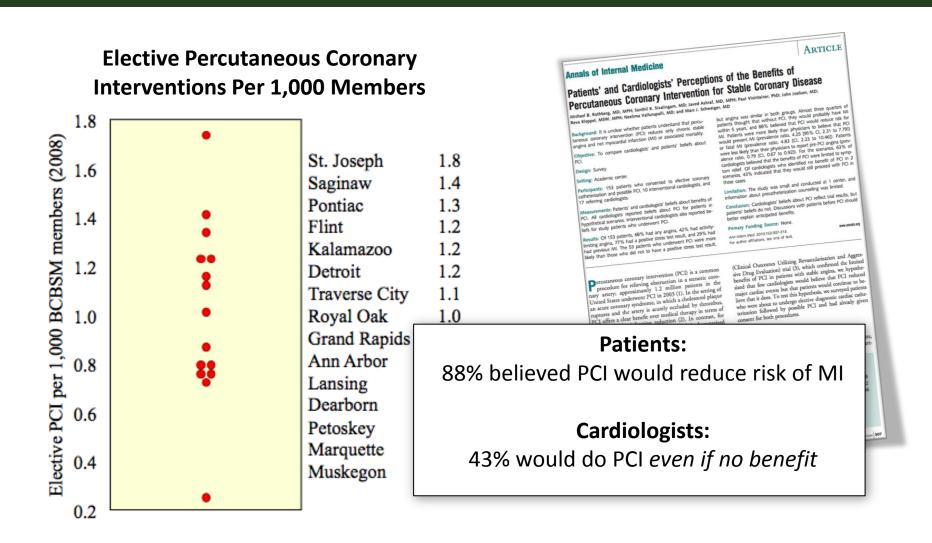




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# **Preference-Sensitive Care: Regional Variation**

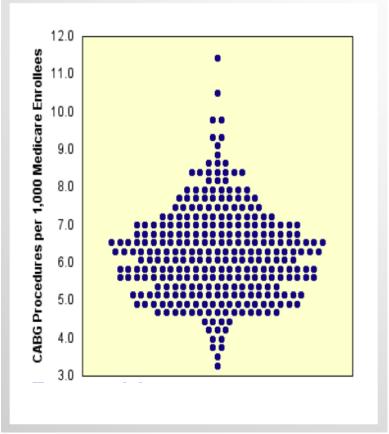


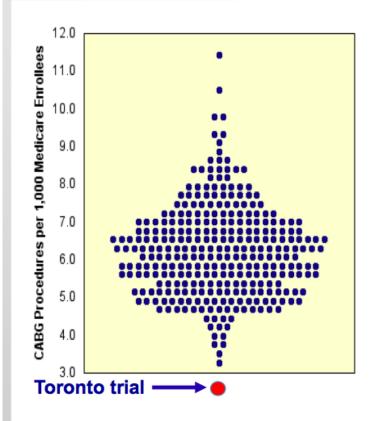
Source: Center for Health Care Research and Transformation Issue Brief: Variation in Interventional Cardiac Care in Michigan (April 2012)



# Preference-Sensitive Care: Role of shared decision-making







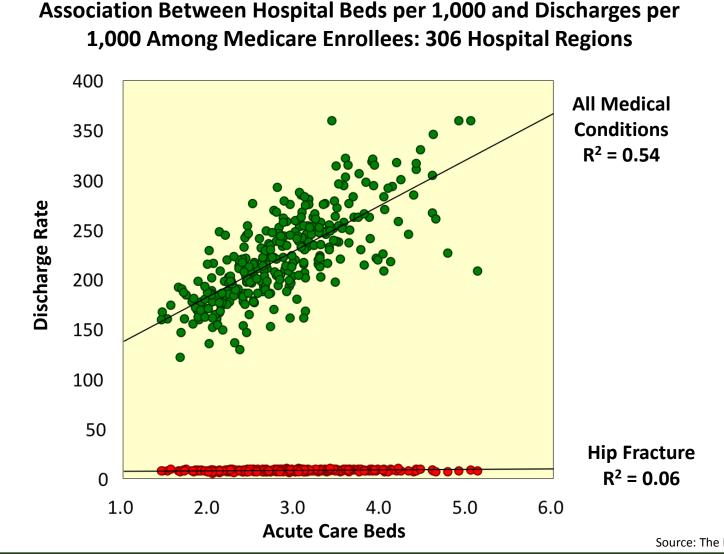
CABG rates decreased 26% to a rate lower than all 306 regions



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Supply-Sensitive Care	<ul> <li>Little or no clinical evidence on use, so judgment required (visits, hospital stay). Use rates strongly influenced by supply.</li> <li>Capacity (and provider opinion) a strong influence.</li> </ul>

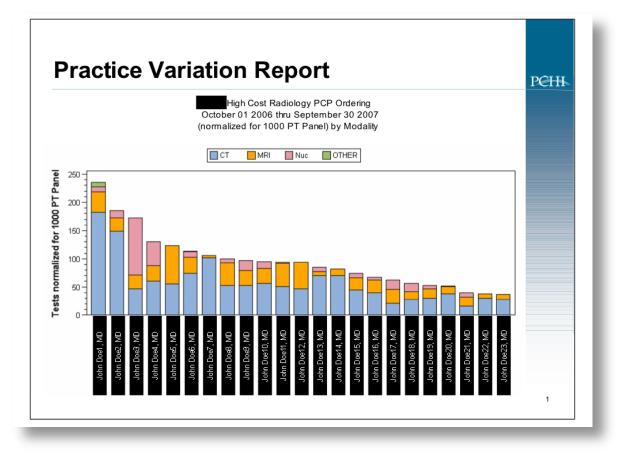


# Supply-Sensitive Care: Regional Variation



Source: The Dartmouth Atlas

# Frequency of High Cost Imaging among Physicians in a Medical Group



Source: May 29, 2008 Presentation at Federal Trade Commission, Tom Lee, MD (Partners Healthcare System) (used with permission)



# Categories of Variation

Categorv

Definition

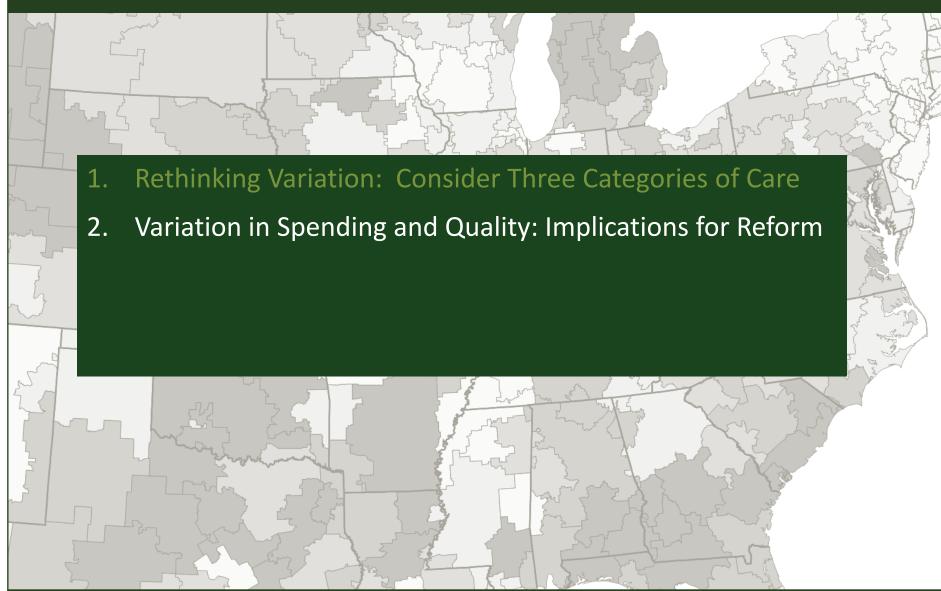
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Doing the right thing – and no more

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Supply- Sensitive Care		visits, hospital stay). Influenced by supply.	All Medical Conditions R <sup>2</sup> = 0.54 Hip Fracture R <sup>2</sup> = 0.06 Source: Wennberg et al Health Affairs

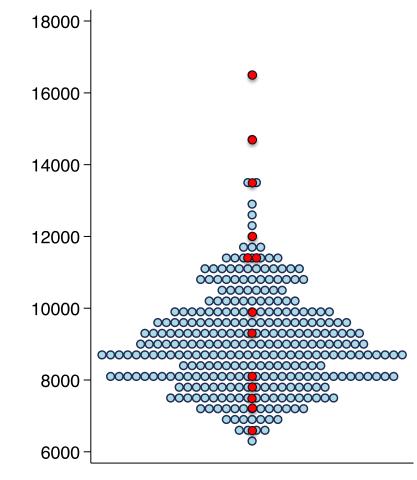


# The Journey to Accountable Care





# Per-Capita 2009 Medicare Spending by HRR (Age, Sex, Race Adjusted)



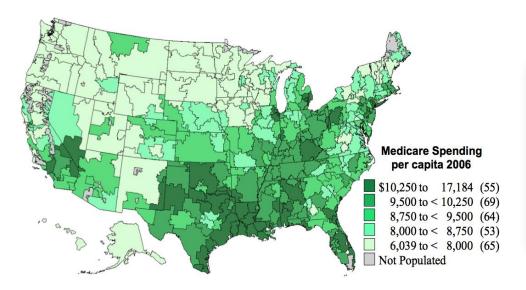
	4
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Chicago, IL	\$11,646
San Francisco, CA	\$9,913
Cincinnati, OH	\$9,388
Lebanon, NH	\$8,124
Minneapolis, MN	\$7,734
Des Moines, IA	\$7,382
Rochester, MN	\$7,120
La Crosse, WI	\$6 <i>,</i> 532

Source: The Dartmouth Atlas



# Health Implications of Regional Variations in Spending

- Initial study: 1 million Medicare beneficiaries with AMI, colon cancer, and hip fracture
- Compared content, quality, and outcomes across high and low spending regions



# Per-Capita Spending

Low (pale): \$3,992 High (green): \$6,304 Difference: **\$2,312 (61%)** 



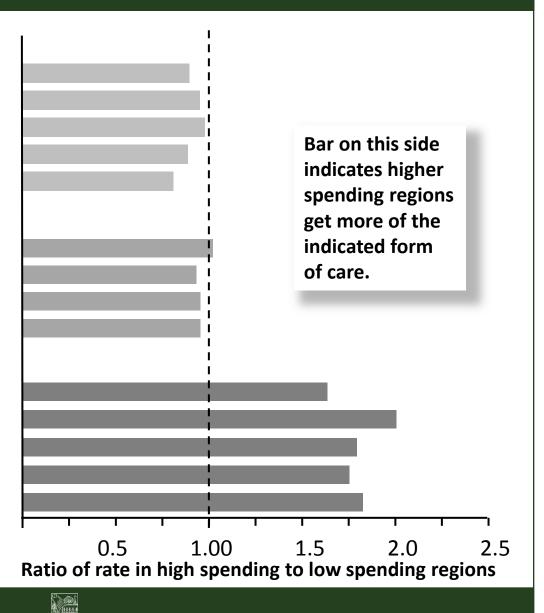
Effective Care: Benefit clear for all Reperfusion in 12 hours (Heart attack) Aspirin at admission (Heart attack) Mammogram, Women 65-69 Pap Smear, Women 65+ Pneumococcal Immunization (ever)

#### **Preference Sensitive**: Values matter

Total Hip Replacement Total Knee Replacement Back Surgery CABG following heart attack

#### Supply Sensitive: Often avoidable care

Total Inpatient Days Inpatient Days in ICU or CCU Visits (mostly to specialists) Imaging Diagnostic Tests



Source: The Dartmouth Atlas

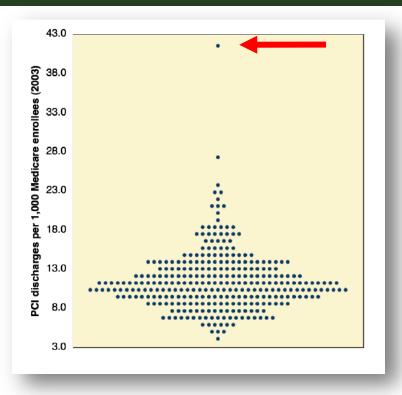
Health Outcomes	Physician's Perceptions	Patient-Perceived Quality
No gain in survival	Worse communication	Lower satisfaction with hospital care
No better function	Greater difficulty ensuring coordination	Worse access to primary care
	Greater perception of scarcity	No less sense that care is rationed



# Why the variations?

- Not patient preferences or malpractice
- Capacity important, but explains less than half of the difference
- Clinical decision-making for preference and supply-sensitive care clearly important





SIDE EFFECTS

Heart Procedure Is Off the Charts in an Ohio City

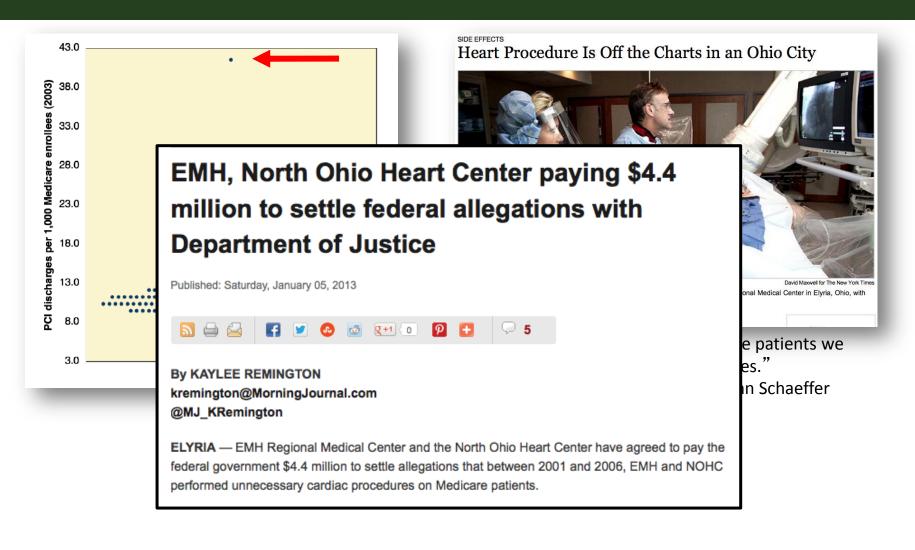


Dr. Charles D. O'Shaughnessy of North Ohio Heart Center does an angioplasty at EMH Regional Medical Center in Elyria, Ohio, with Susan Croston, a radiology technologist. By REED ABELSON

Published: August 18, 2006

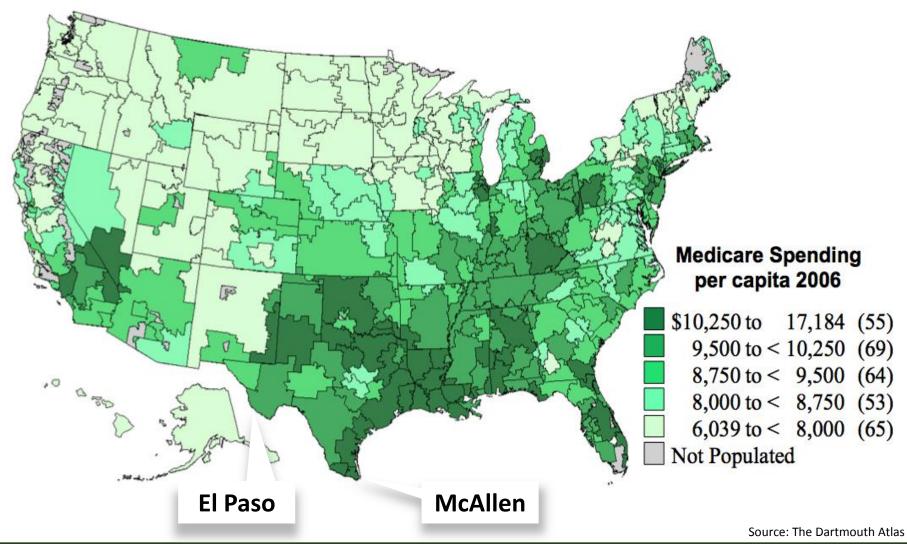
"We do manage very aggressively the patients we care for... We have excellent outcomes." Dr. John Schaeffer







# Variations in Practice and Spending: Why clustered regionally?





# THE NEW YORKER

#### ANNALS OF MEDICINE THE COST CONUNDRUM

What a Texas town can teach us about health care. BY ATUL GAWANDE

#### JUNE 1, 2009

I t is spring in McAllen, Texas. The morning sun is warm. The streets are lined with palm trees and pickup trucks. McAllen is in Hidalgo County, which has the lowest household income in the country, but it's a border town, and a thriving foreign-trade zone has kept the unemployment rate below ten per cent. McAllen calls itself the Square Dance Capital of the World. "Lonesome Dove" was set around here. McAllen has another distinction, too: it is one of

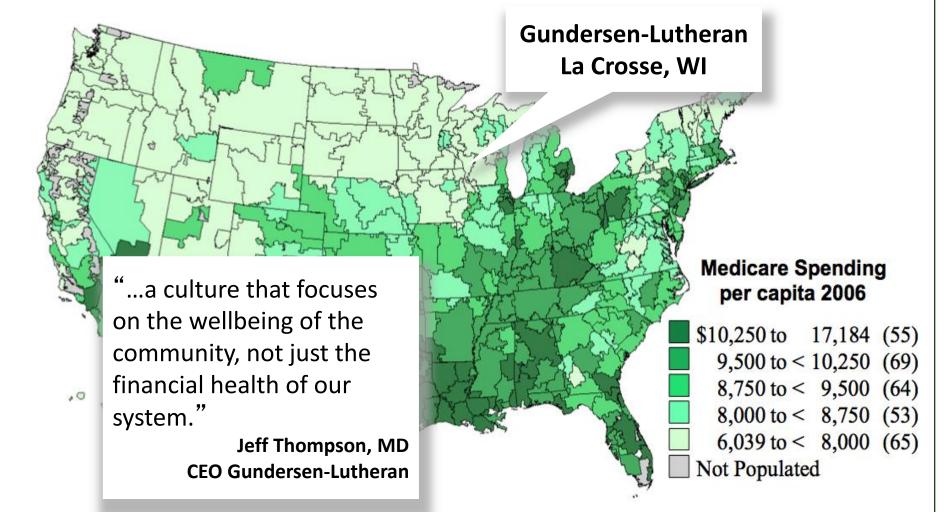
the most expensive health-care markets in the country. Only Miami—which has much higher labor and living costs—spends more per person on health care. In 2006, Medicare spent fifteen thousand dollars per enrollee here, almost twice the national average. The income per capita is twelve thousand dollars. In other words, Medicare spends three thousand dollars more per person here than the average person earns.



Costlier care is often worse care. Photograph by Phillip Toledano.

average person earns. The explosive trend in American medical costs seems to have occurred here in an especially intense form. Our country's health care is by far the most expensive in the world. In Washington, the aim of health-care reform is not just to extend medical coverage to everybody but also to bring costs under control. Spending on doctors, hospitals, drugs, and the like now consumes more than one of every six dollars we earn. The financial burden has damaged the global competitiveness of American businesses and bankrupted millions of families, even those with insurance. It's also devouring our government. "The greatest threat to America's fiscal health is not Social Security," President Barack Obama said in a March speech at the White House. "It's not the investments that we've made to rescue our economy during this crisis. By a "[McAllen] ... a medical community came to treat patients the way subprime mortgage lenders treated home buyers: as profit centers."





## **Underlying Problem**

**Confusion about aims**: Is it about money or something more?

# **Key Principles**

**Clarify aims**: Better health, better care, lower costs – for patients and communities.

Absent or poor data leaves practice unexamined and unable to improve; choices uninformed by evidence.

Better information: to support improvement & shared decisionmaking; and determine true demand

**Flawed conceptual model**: Health is produced by face-to-face visits with physicians. Care is fragmented.

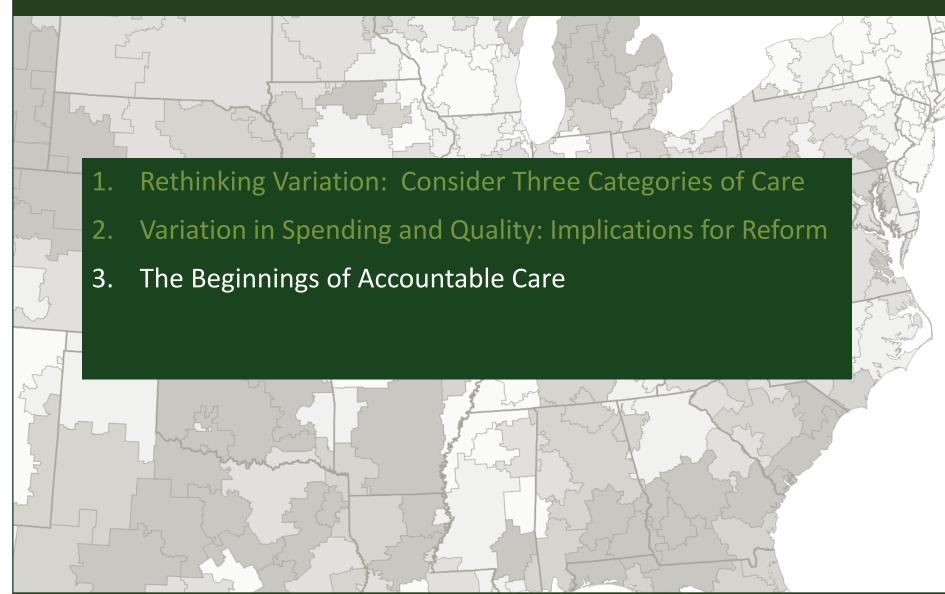
**New model**: *It's the system*. Establish organizations capable of redesigning practice , right-sizing capacity

Wrong incentives reinforce model, reward fragmentation, induce overuse of unnecessary care.

**Rethink our incentives**: Realign incentives – both financial and professional – with aims.



# The Journey to Accountable Care





# The Current Opportunity: Health Care Reform

H.R. 3590

#### One Hundred Eleventh Congress of the United States of America

AT THE SECOND SESSION

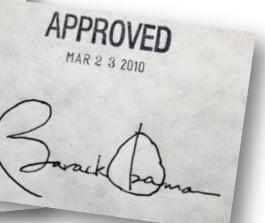
Begun and held at the City of Washington on Tuesday. the fifth day of January, two thousand and ien

#### IIE nE

Entitled The Patient Protection and Affordable Care Act. Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, SECTION 1. SHORT TITLE, TABLE OF CONTENTS. (a) SHORT THLE \_\_This Act may be cited as the "Patient Protec-tion and Affordable Care Act". (b) TABLE OF CONTENTS .- The table of contents of this Act TITLE 1-QUALITY, AFFORDABLE HEALTH CARE FOR ALL AMERICANS is as follows: Sec. 1. Short title, table of contents. Subitle A-Immediate Improvements in Health Care Coverage for All Americana Sec. 1001. Amendments to the Public Health Service Act. PART A-INDIVIDUAL AND GROUP MARKET REPORME -SUBART 3-MEROVING COVERANT Sec. 2711. No bifetime or annual limits. Sec. 2712. Probabilism on successions Sec. 2713. Deverage of executive health services. Sec. 2714. Extendements and sulfuration Sec. Sec. 2715. Accounts and a sandwork of distributions. Sec. 2715. Development and sulfuration definitions. Sec. 2716. Development and sandwork definitions. Sec. 2716. Development and sandwork definitions. Sec. 2716. Development and sandwork definitions. "SUBPART II-IMPROVING COVERAGE Unsering the quality of cars. Bringing flown the cost of health cars coverage Health neurance consumer information. Ensuring that consumers get value for their dollars. Effective datas. Sec. Sec. 1002. Subtills B-Immediate Actions to Preserve and Expand Coverage Sec 1101. Immediate access to insurance for uninsured individuals with a pre- Little endpires
 En istrative simplification. FREE uptu Subtitle C-Quality Health Insurance Coverage for All Americana PART 1-HEALTH INSURANCE MARKET REFORME Sec. 1201. Amendment to the Public Health Service Art. "SUBPART 1- GENERAL REPORM uns or other discrim Sec. 1704. Prohibition of pressiging condition reduces then haved on health status.
 Sec. 1701. Entr bashla inserance premiums.
 Sec. 1702. Guaranteed availability of correspondences.

#### Affordable Care Act

- Investments in public health
- Health information technology
- Expanded coverage
- New payment models





# The Current Opportunity: New Payment Models

# **Episode (Bundled) Payments**

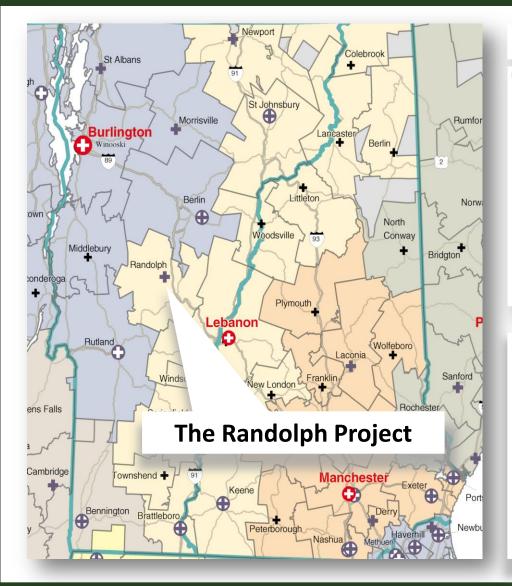
- **Theory:** Single payment encourages integration to improve care
- **Practice:** Many payers testing this approach
- Limitations: Boundaries contentious, incentive to do more remains
- Evidence: No evidence yet

## **Medical Home**

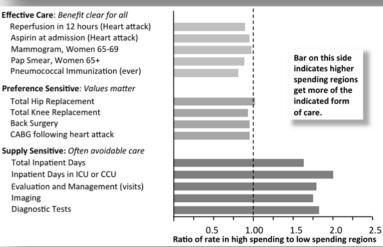
- **Theory:** Payment to support (currently unfunded) primary care functions
- **Practice:** Adoption underway with federal and private payers
- Limitations: Leaves responsibility with PCP; no incentive for specialists or hospitals to support improvement
- Evidence: No evidence yet in fee-for-service practice; emerging evidence within integrated systems under global payment



# Origin: Population-Based Accountability for All Categories of Care



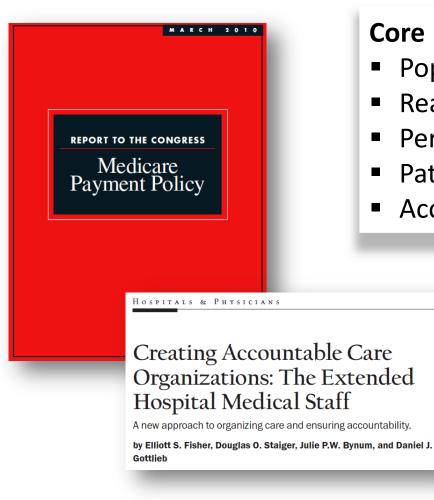
#### **Higher vs. Lower Spending Regions**



#### Purpose

- Ensure delivery of effective care
- Shared decision-making to get patients the care they want and right-size capacity
- Continually eliminate waste

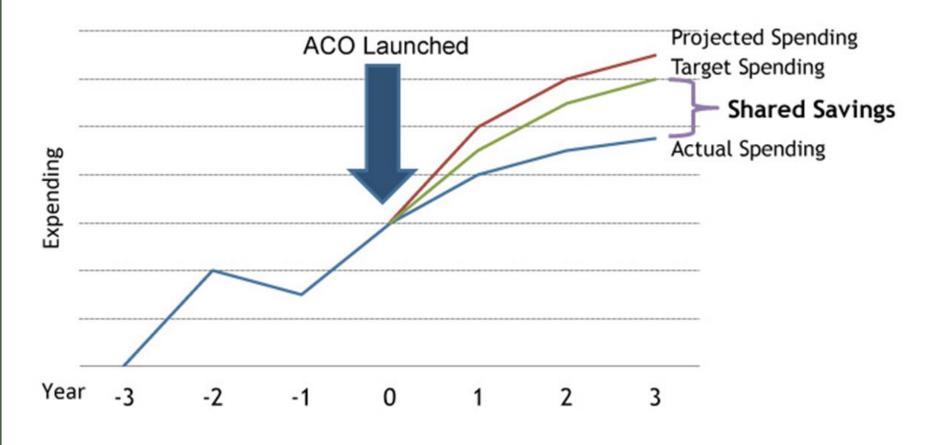




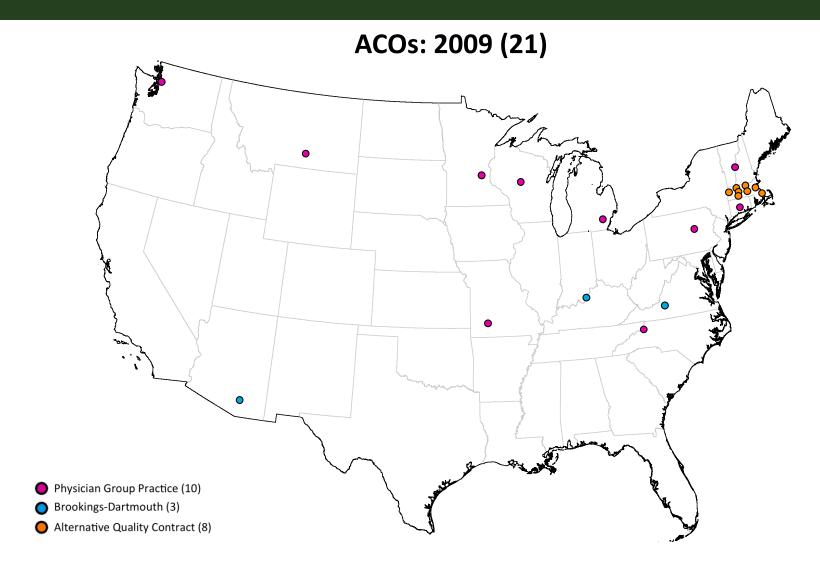
# **Core Ideas**

- **Population-based virtual budgets**
- Real or virtual organizations
- Performance measurement
- Patient choice
- Accommodate diversity

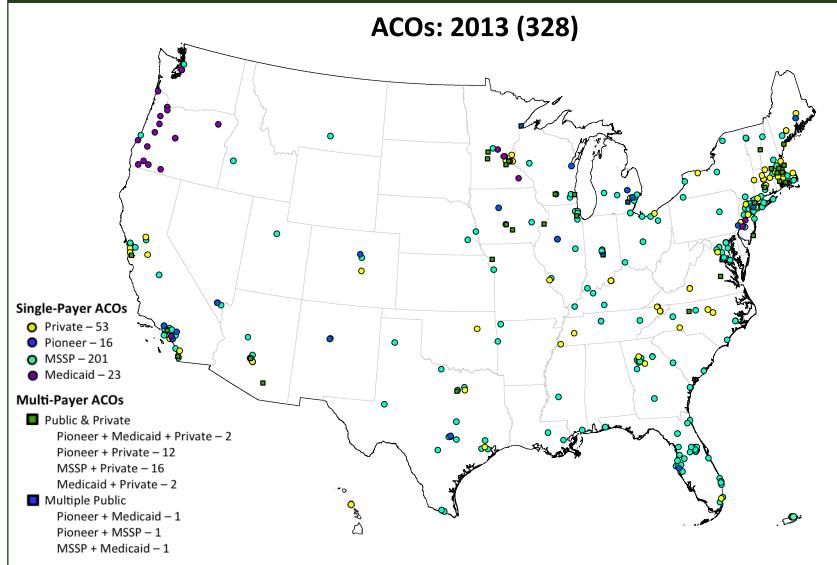
# The ACO Shared Savings Opportunity











Note: The sum of ACOs reflects the total number of unique, publicly identifiable, confirmed private-payer ACOs as of 08/2012 and public-payer ACOs as of 01/2013.



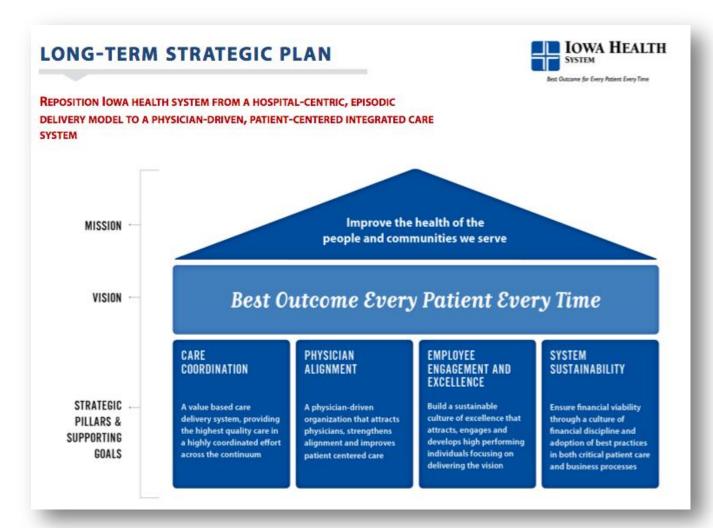
A payment model focused on performance – not structural requirements – and focused on the overall care of a population

**Diverse organizational forms are enabled** 

- Integrated delivery systems
- Physician groups and networks
- Hospitals (employing or contracting with their physicians)
- Community clinics
- Pharmacy-supported MD networks

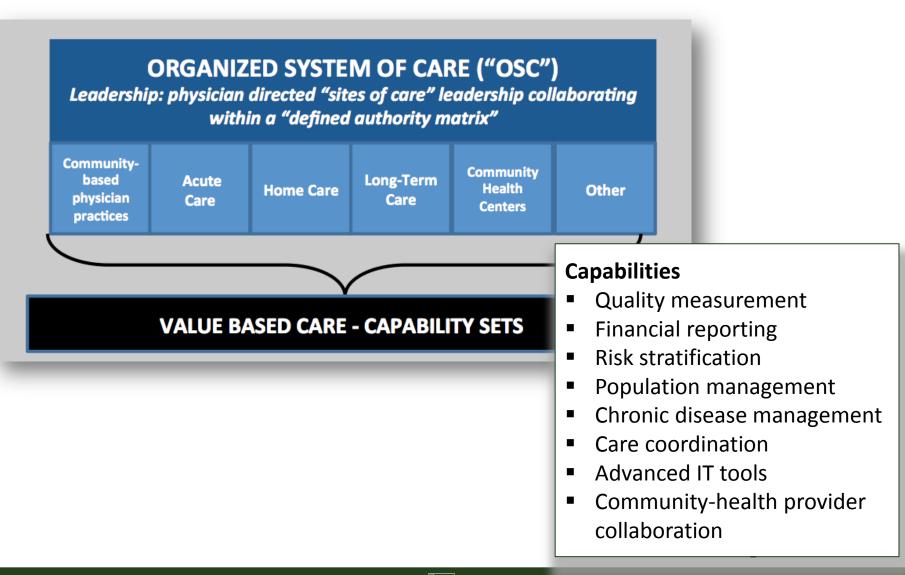


# The Current Opportunity: Accountable Care



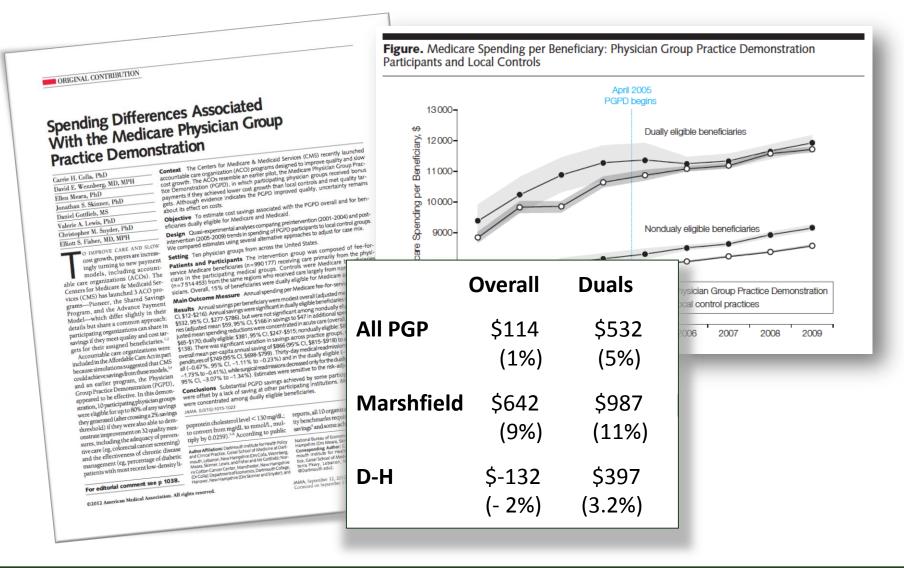


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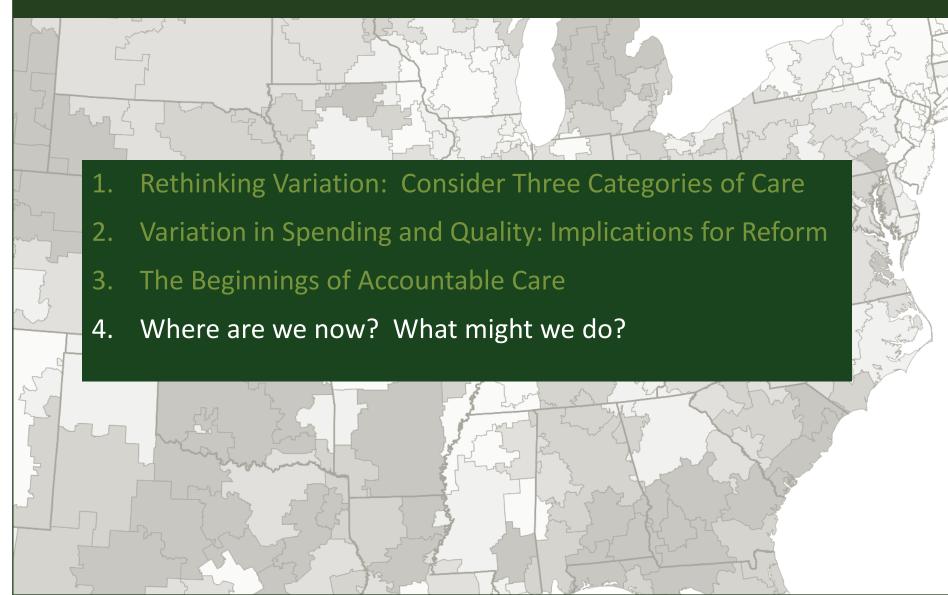


# ACOs: Might this work for patients?





# The Journey to Accountable Care





# Insights, Opportunities and Challenges

# **Underlying problem**

Limited knowledge about what works, how, for whom, in what contexts

#### **Opportunity**:

Improvement in knowledge and care

#### Challenge:

Balancing public and private good Addressing all 3 categories of variation

# Possible approach

A learning health care system embedding measurement and improvement

- Practice networks
- Meaningful measures (PROMs, costs)
- Comparative effectiveness research
- Advanced technology and analytics

## Feed Forward Systems for Patient Participation and Provider Support: Adoption Results From the Original US Context to Sweden and Beyond

Helena Hvitfeldt, MSc; Cheryl Carli, PhD, RN; Eugene C. Nelson, DSc, MPH; Dawne M. Mortenson, RN; Birgit A. Ruppert, PT; Staffan Lindblad, MD, PhD



# Insights, Opportunities and Challenges

# **Underlying problem**

Flawed model: professional autonomy Science mediated by expert physicians (in face-to-face visits) produces the best care possible

# Possible approach

#### New model: organized care

Consumers empowered by technology and teams engage in self-care and informed decisions to achieve their goals

#### **Opportunity**:

Patients receive care aligned with goals Capacity determined by true demand

#### Challenge:

Retraining the healthcare workforce Right-sizing, redesigning physical plant





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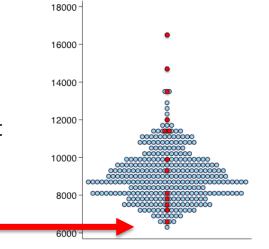
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# Per-Capita 2009 Medicare Spending by HRR (Age, Sex, Race Adjusted)



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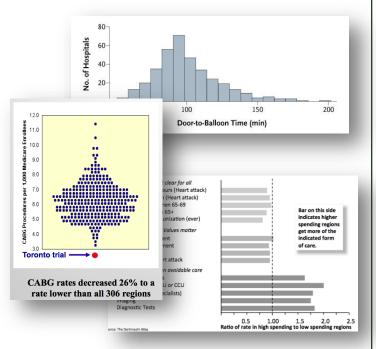
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