



Health Care Transformation Post Reform: Geisinger's Model

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New York, NY

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Geisinger Health System

Where We Are Now (Nationally)



The Quality of Health Care Delivered To Adults In the United States

McGlynn, Elizabeth A.: Asch, Steven M.: Adams, John: Jeesey, Joan: Hicks, Jennifer:
DeCristofaro, Alison: Kerr, Eve A.

BACKGROUND

We have little systematic information about the extent to which standard processes involved in healthcare—a key element of quality—are delivered in the United States.

METHODS

We telephoned a random sample of adults living in 12 metropolitan areas in the United States and...received written consent to copy their medical records...to evaluate performance on 439 indicators of quality of care for 30 acute and chronic conditions as well as preventative care...

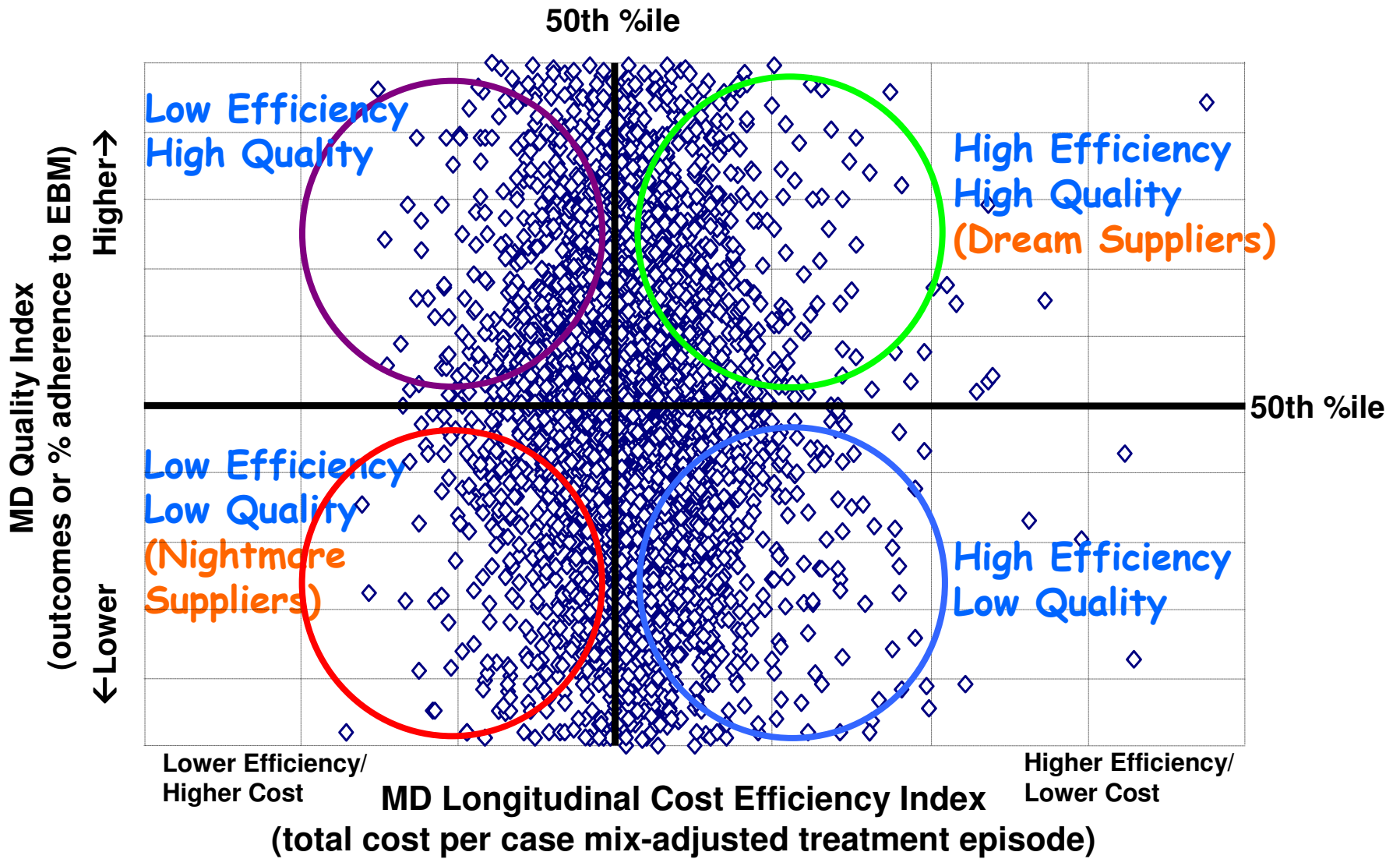
RESULTS

Participants received 54.9 percent of recommended care.

CONCLUSIONS

The deficits we have identified in adherence to recommended processes for basic care pose serious threats to the health of the American public. Strategies to reduce these deficits are warranted.

Cost/Quality “Correlation”

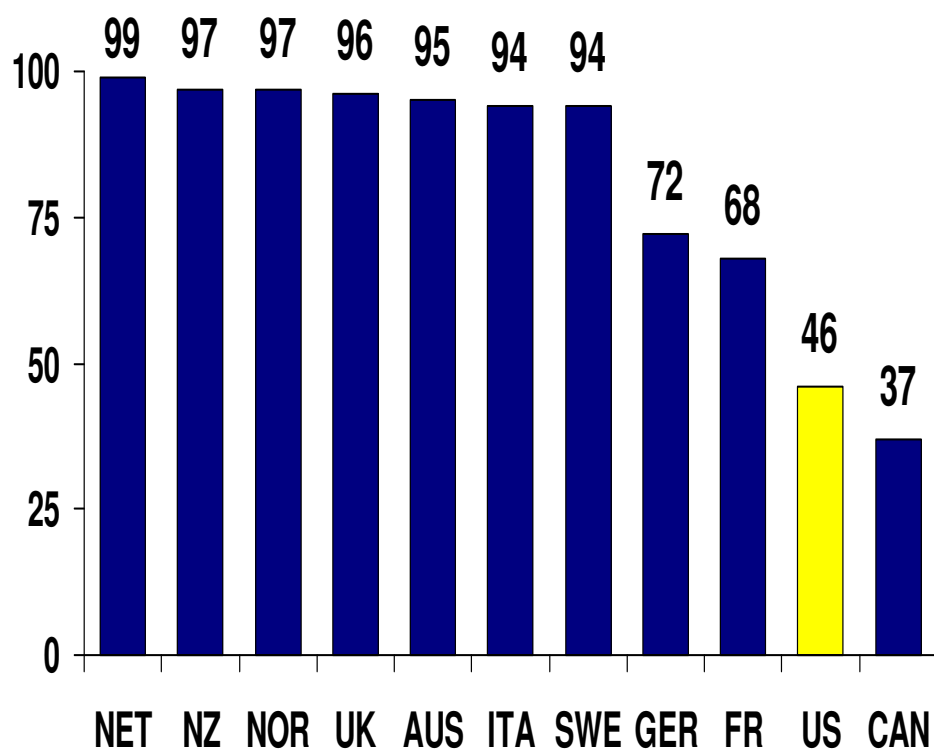


Adapted from Regence Blue Shield; Arnie Milstein, MD - Mercer

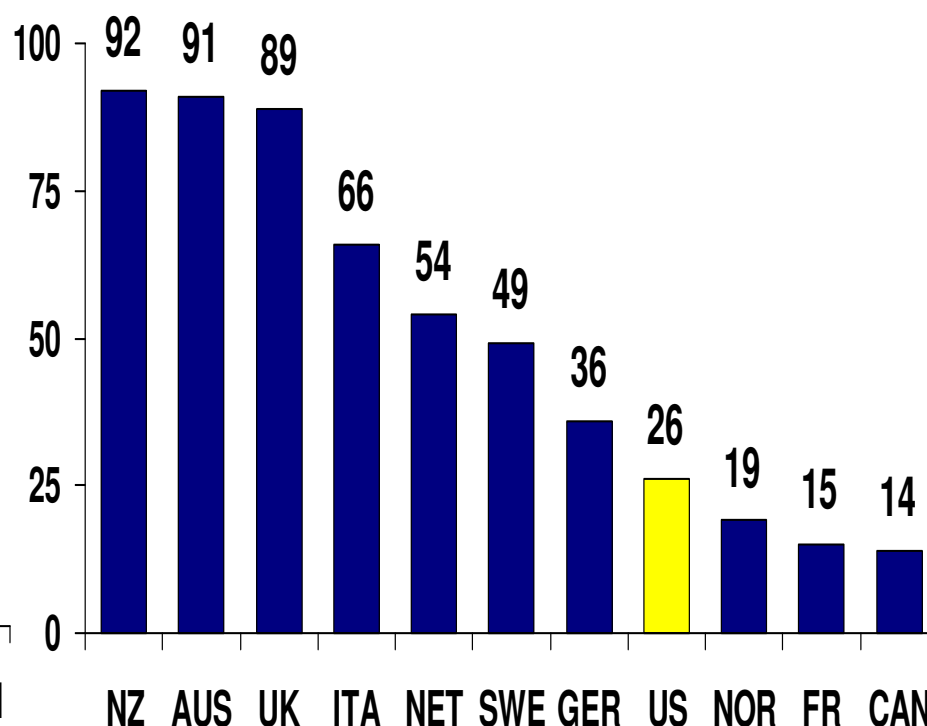
Where Is the U.S. on Health IT?

Only 46% of U.S. primary care physicians have electronic medical records (EMRs), and only 26% have advanced IT capacity

Percent reporting EMR

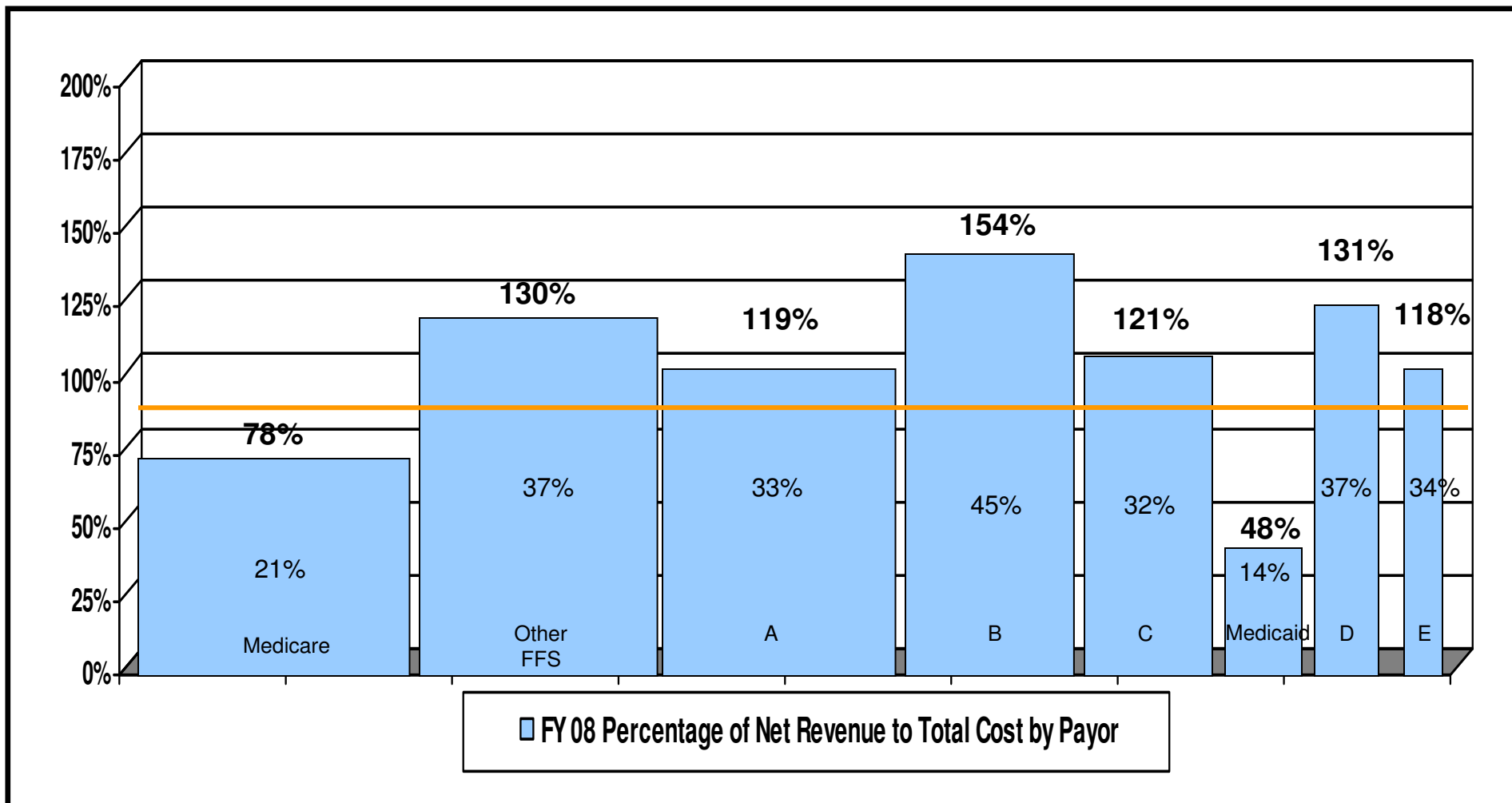


Percent reporting nine or more of 14 IT functions*



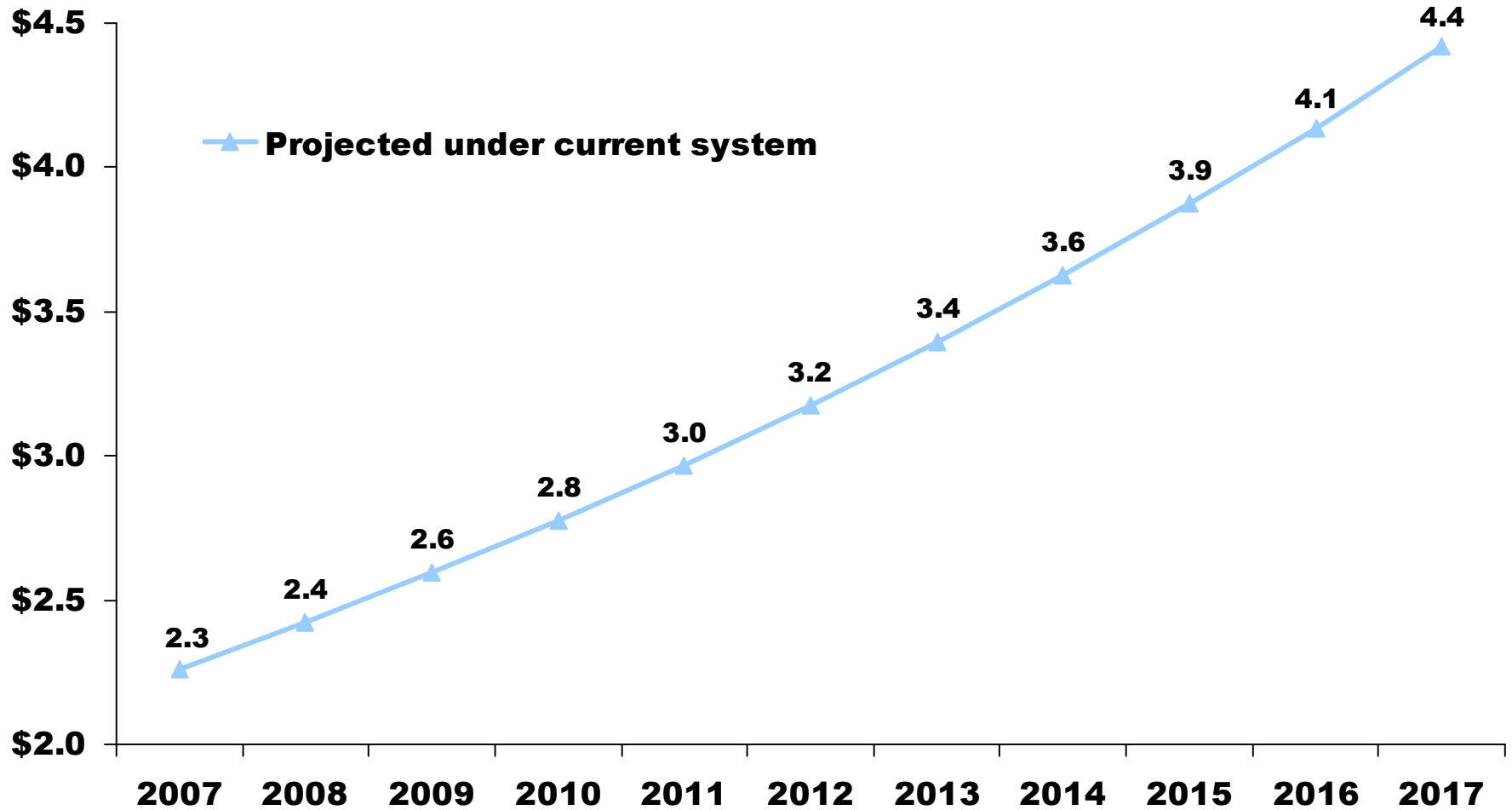
* Count of 14 functions includes: electronic medical record; electronic prescribing and ordering of tests; electronic access test results, Rx alerts, clinical notes; computerized system for tracking lab tests, guidelines, alerts to provide patients with test results, preventive/follow-up care reminders; and computerized list of patients by diagnosis, medications, due for tests or preventive care. Source: Commonwealth Fund 2009 International Health Policy Survey of Primary Care Physicians.

The “Cross Subsidy”



Total National Health Expenditures, 2008–2017

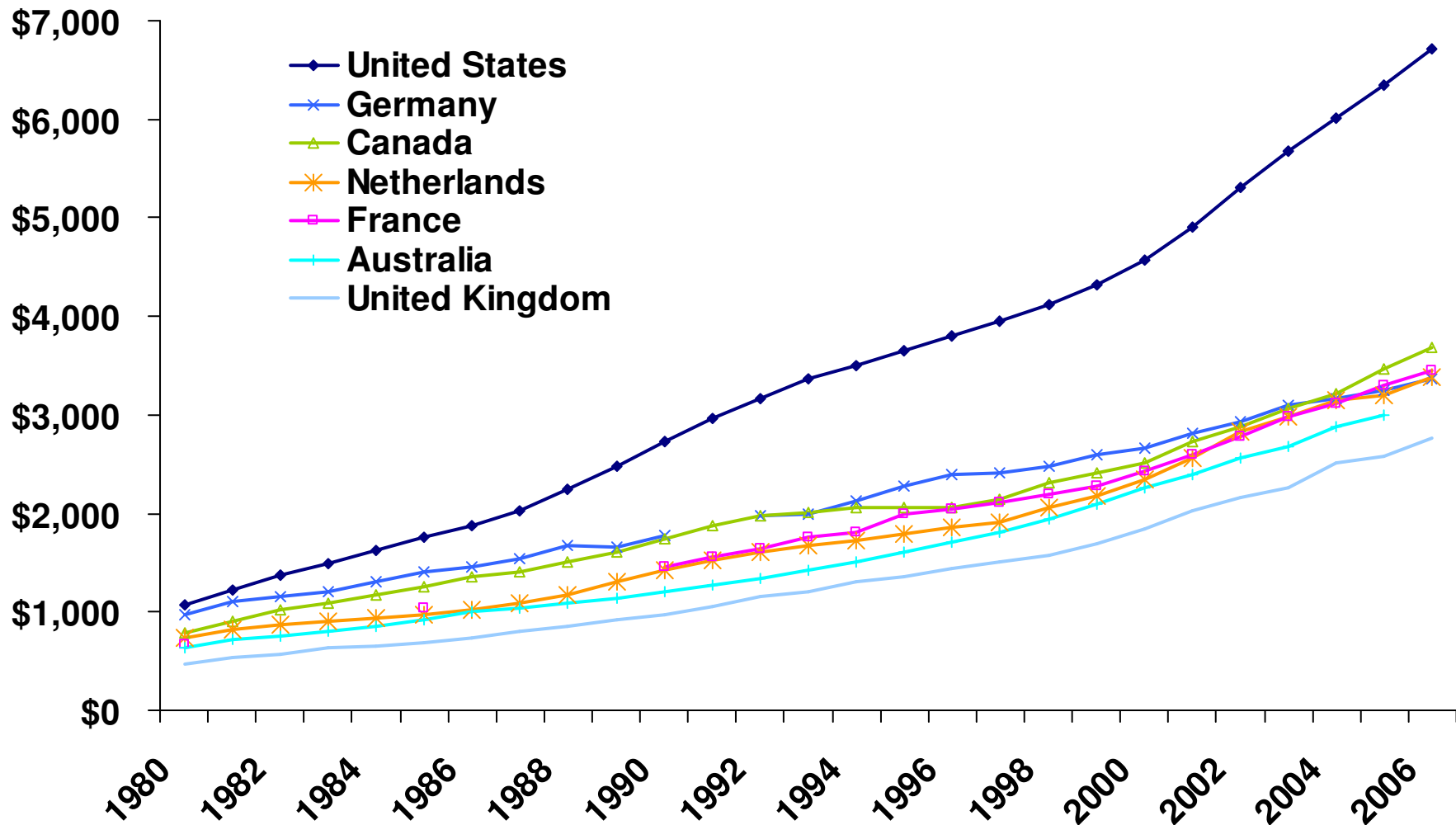
Dollars in trillions



Source: Based on projected expenditures absent policy change and Lewin estimates.

International Comparison of Spending on Health, 1980–2006

Average spending on health per capita (\$US PPP*)



* PPP = Purchasing Power Parity.
Data: OECD Health Data 2008, June 2008 version.

The Path to a High Performance US Health System “A 2020 Vision and the Policies to Pave the Way”, pg. 16-21, The Commonwealth Fund

Where We Want to Be

1. Affordable coverage for all
2. Payment for value
3. Coordinated care
4. Continuous improvement/innovation
5. National health goals, leadership, accountability

The Path to a High Performance US Health System “A 2020 Vision and the Policies to Pave the Way”, pg. 16-21, The Commonwealth Fund

The Legacy



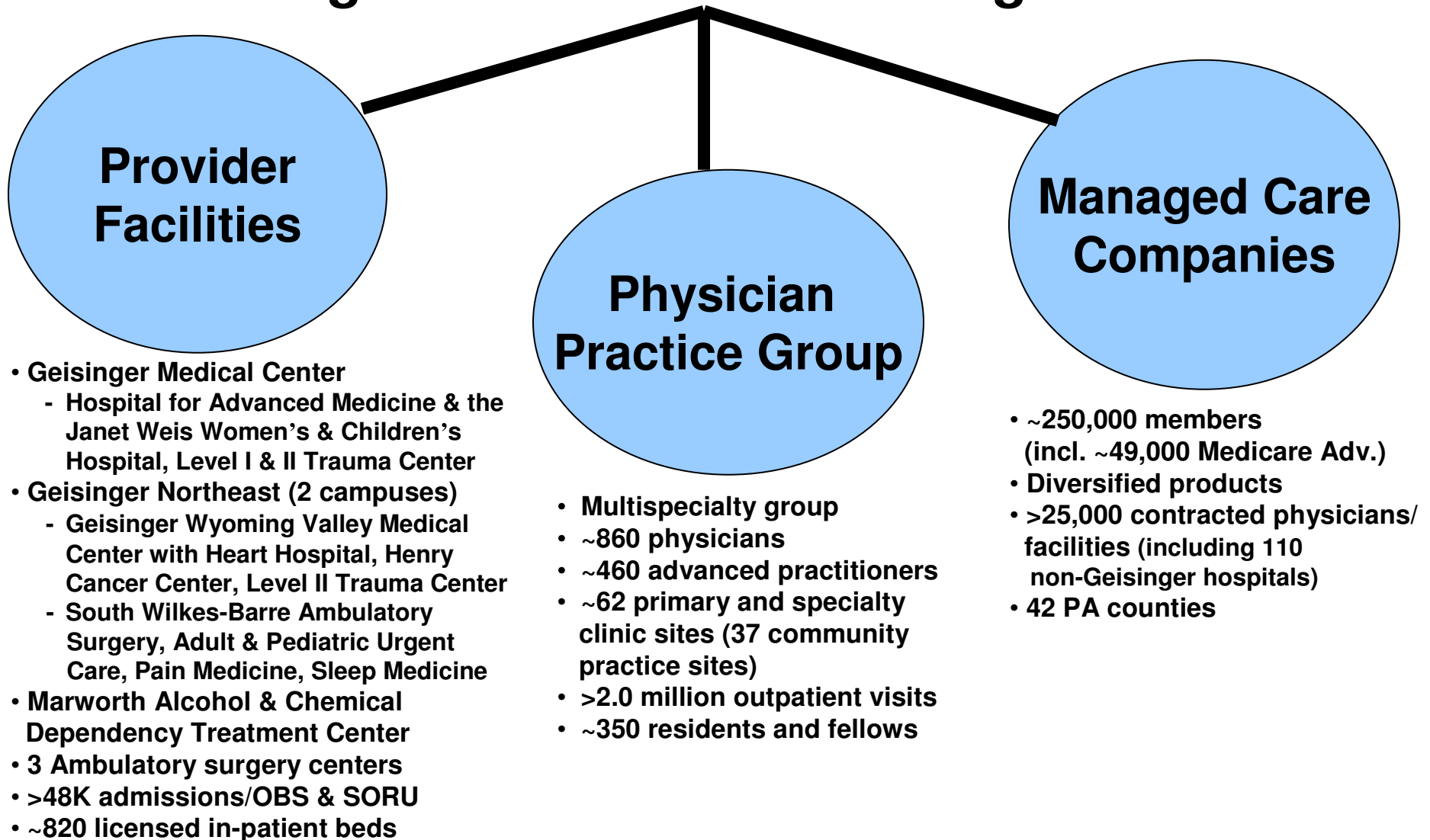
**“Make my hospital right,
make it the best.”**

Abigail Geisinger
1827-1921

“Geisinger Quality – Striving for Perfection”...2006 - 2011

Geisinger Health System

An Integrated Health Service Organization



Electronic Health Record (EHR)

- > \$130M invested (hardware, software, manpower, training)
- Running costs: ~4.4% of annual revenue of > \$2.3B
- Fully-integrated EHR: 37 community practice sites; 2 hospitals; 2 EDs; 6 Careworks Retail-based and worksite clinics
 - Acute and chronic care management
 - Optimized transitions of care
- Networked PHR - ~155,000 active users (33% of ongoing patients)
 - Patient self-service (self-scheduling, kiosks)
 - Home monitoring integrated with Medical Home
- “Outreach EHR” - 2,600 non-Geisinger physician users
 - Regional image distribution
- Active Regional Health-Information Exchange (KeyHIE)
 - 11 hospitals, 90+ practices, 400,000 patients consented
- Keystone Beacon Community
 - HIT-enabled, Community-wide care coordination in 5 rural counties

The Vision

- Geisinger Quality
- Innovation
- Market Expansion
- Securing the Legacy

Targets for Geisinger Innovation

- Unjustified variation
- Fragmentation of care-giving
- Perverse payment incentives
 - ↑ Units of work
 - Outcome irrelevant
- Patient as passive recipient of care

Key Partnerships

- Patients
- Physicians
- Hospitals
- Buyers
- Payers
- All members of the care team

Innovation Initiatives

- **ProvenCare[®] for Acute Episodic Care (the “Warranty”)**
- ProvenCare[®] Chronic Disease
- **ProvenHealth NavigatorSM (Advanced Medical Home)**
- Transitions of Care

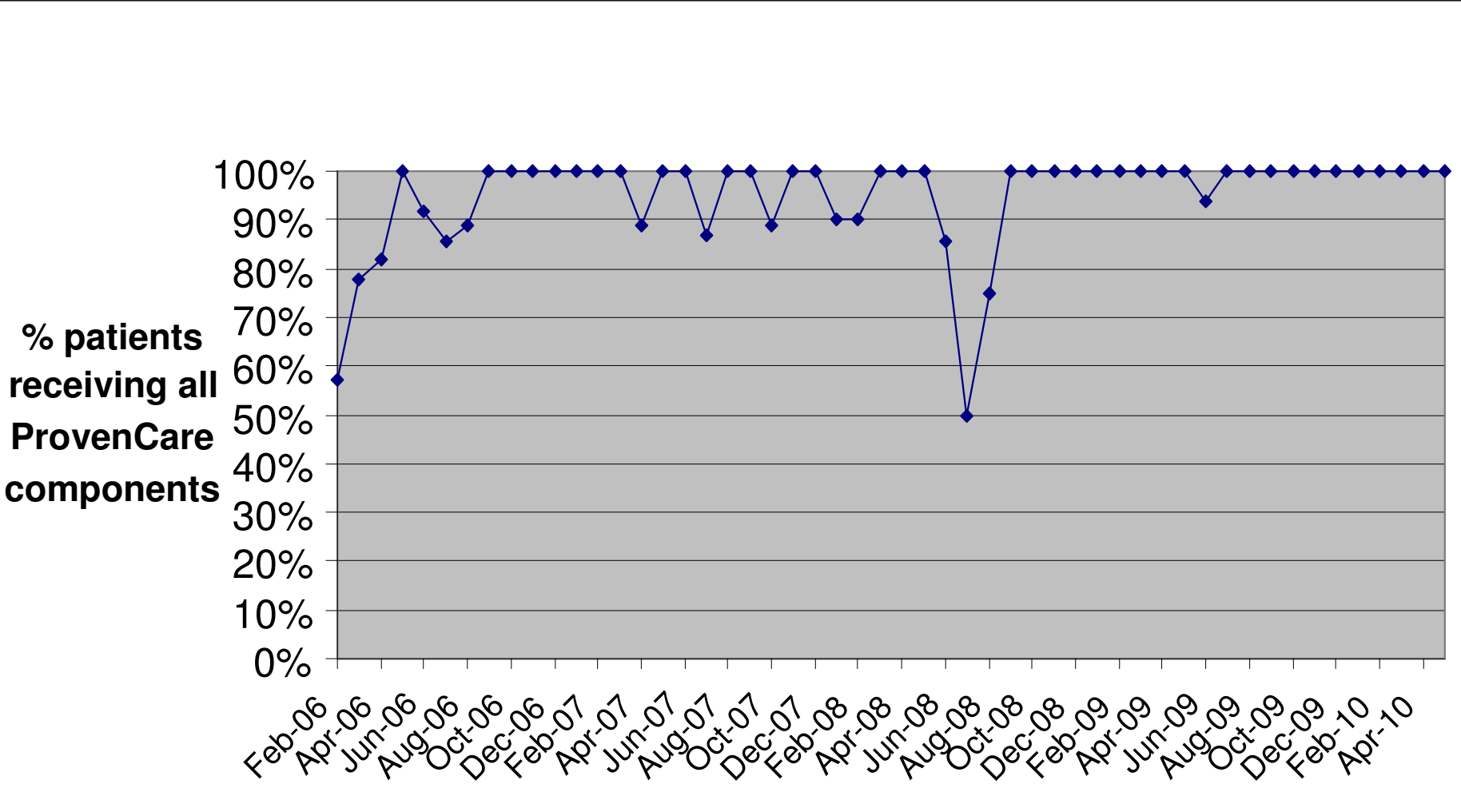
ProvenCare[®] for Acute Episodic Care (the “Warranty”)

ProvenCare[®] for Acute Episodic Care

ProvenCare[®]

- Identify high-volume DRGs
- Determine best practice techniques
- Deliver evidence-based care
- GHP pays global fee
- No additional payment for complications

ProvenCare[®] CABG



Quality/Value - Clinical Outcomes

	<i>Before</i> ProvenCare® (n=132)	ProvenCare® (n=321)	<i>% Improvement</i>
In-hospital mortality	1.5 %	0.3 %	80 %
Patients with <u>any</u> complication (STS)	38 %	33 %	13 %
Patients with >1 complication	8.4 %	5.9 %	30 %
Atrial fibrillation	24 %	21 %	13 %
Neurologic complication	1.5 %	0.9 %	40 %
Any pulmonary complication	7 %	5 %	29 %
Re-intubation	2.3 %	0.9 %	61 %
Blood products used	24 %	22 %	8 %
Re-operation for bleeding	3.8 %	2.8 %	26 %
Deep sternal wound infection	0.8 %	0.3 %	63 %
Readmission within 30 days	6.9 %	5.6 %	20 %

ProvenCare[®] CABG: Financial Outcomes

Hospital:

- Contribution margin increased 17.6%
- Total inpatient profit per case improved \$1946

Health Plan:

- Paid out 4.8% less per case for CABG with ProvenCare[®] than it would have without
- Paid out 28 to 36% less for CABG with GHS than with other providers

ProvenCare[®] Portfolio

ProvenCare[®]:

- CABG
- PCI (Percutaneous Coronary Interventions
Angioplasty/Angioplasty + AMI)
- Hip replacement
- Cataract
- EPO
- Perinatal
- Bariatric surgery
- Low back
- Lung cancer

ProvenCare[®] - Chronic Disease

Chronic Disease Portfolio

- Diabetes
- Congestive Heart Failure
- Coronary Artery Disease
- Hypertension
- Prevention Bundle



Physician Group Practice Demonstration Performance Year 4 Quality Measures Results

August 20, 2010

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ProvenHealth NavigatorSM **(Advanced Medical Home)**

ProvenHealth NavigatorSM (Advanced Medical Home)

- Partnership between primary care physicians and GHP that provides 360-degree, 24/7 continuum of care
- “Embedded” nurses
- Assured easy phone access
- Follow-up calls post-discharge and post-ED visit
- Telephonic monitoring/case management
- Group visits/educational services
- Personalized tools (e.g., chronic disease report cards)

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The New York Times

Business Day

TUESDAY, JUNE 22, 2010

Paying to Cut Health Costs

Extra Nurses Help Doctors Keep Patients Out of the Hospital

A Health Insurer Pays More to Save
By Reed Abelson



THE AMERICAN JOURNAL OF
MANAGED CARE.

Value and the Medical Home: Effects of Transformed Primary Care

Richard J. Gilfillan, MD; Janet Tomcavage, RN, MSN; Meredith B. Rosenthal, PhD;
Duane E. Davis, MD; Jove Graham, PhD; Jason A. Roy, PhD; Steven B. Pierdon, MD;
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August 2010

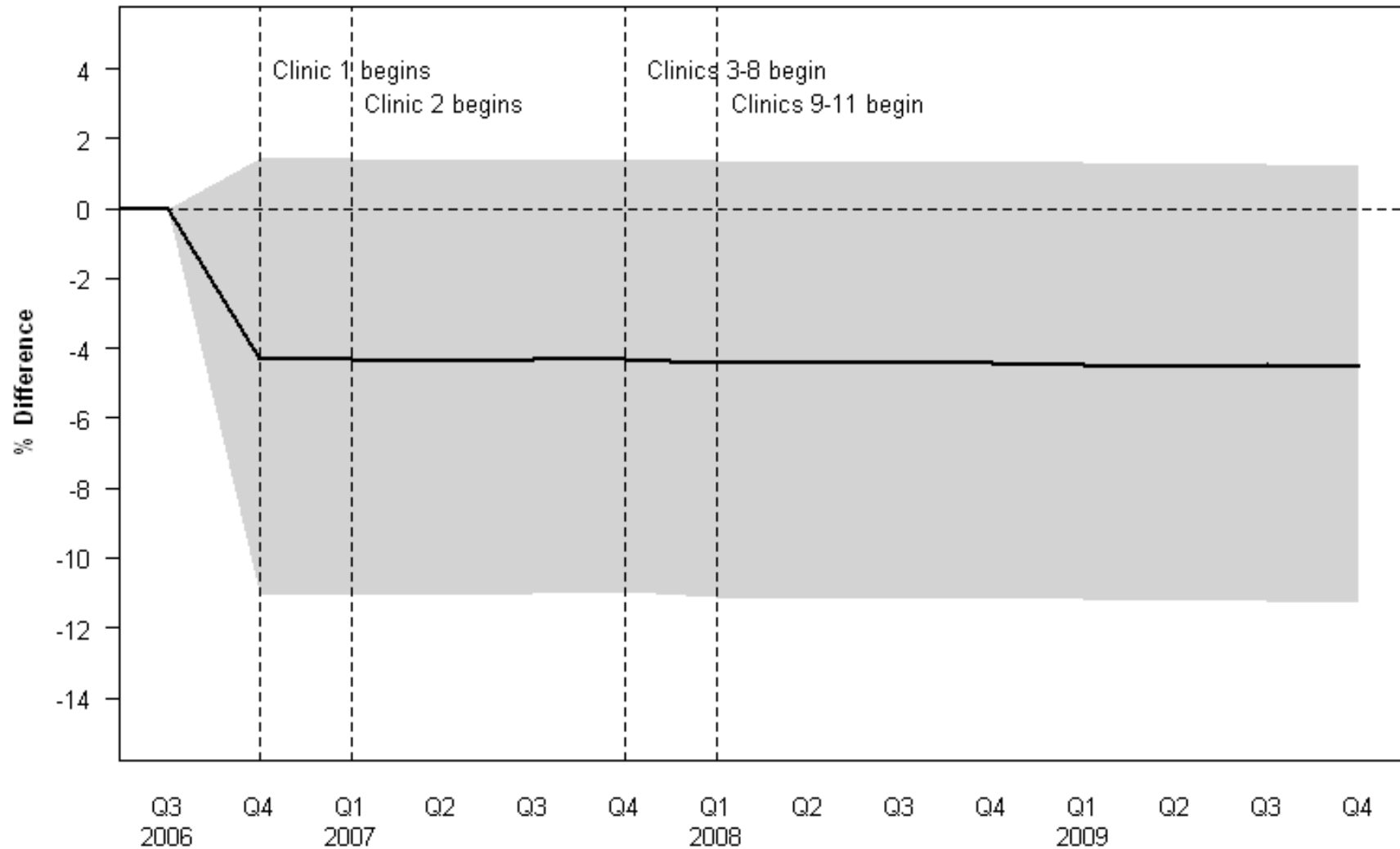
ProvenHealth NavigatorSM (Advanced Medical Home)

- Currently serves 40,000 Medicare recipients and 25,000 commercial patients
- Results from best primary care sites:
 - ↓ 25% patients' admissions
 - ↓ 23% days/1000
 - ↓ 53% readmissions following discharge
 - Significant benefit to patients and families, avoiding multiple hospital admissions

ProvenHealth NavigatorSM significantly expanded since 2007

	Date	Sites	Gold members	Commercial members	PGP members
Phase 1	October 2006	2 GHS	3,000		
	May 2007	1 non-GHS	100	800	
Phase 2	November 2007	10 GHS	7,300	6,000	10,200
	May 2008				
Phase 3	August 2008	9 GHS	4,200	4,500	6,200
	January 2009	3 non-GHS	400	1,400	
Phase 4	July 2009	11 GHS and	4,300	12,300	4,700
	November 2009	1 non-GHS			
Total		32 GHS and 5 non-GHS	19,300	25,000	21,100

Cumulative Total Difference in Spending Attributable to PHN (%) vs. Predicted PMPM



Ongoing Issues

- Scalability?
- Generalizability?
- Specialist \neq PCP

Fundamental Innovation at Geisinger

How and Why?

Anatomy

- Continuum of Care (provider “all-in”)
- Hub and spoke provider design
- Aligned incentives
- Insurance/provider joint goals

Market

- Demography
- Brand
- Market share (insurance and provider)
- Electronic enabler across 42 counties

Fundamental Innovation at Geisinger

How and Why?

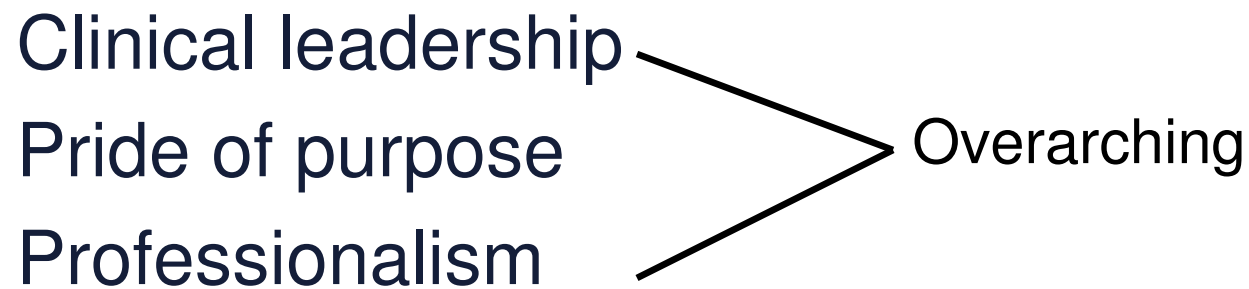
Financial Health

- Balance sheet
- Operating margin
- “Hedging” strategy
- Planned risk taking

Sociology

- IHS culture
- Clinical leadership (insurance and provider)
- Patient centric design
- The “common good” goal

∴ All of the above
“permissive” but not enough



“POST REFORM”

Question: And Now What?

Answer: Reengineering Care!



Prognosis (National)

↑ Access

↑ Demand

Perverse incentives

“Piece rate” Medicare/Medicaid payment

↑ units of work

∴ ↑ cost

↓ value

Prognosis (National)

Consolidation of insurance companies

Consolidation of hospitals

↑ IDS

↑ ACOs

∴ Winners will provide

More value for patients!

Or

"Price controls!!"