

Opening Session

Population Health as a Foundation for Health Reform

David B. Nash, MD, MBA

Dean

Jefferson School of Population Health

**12th Population Health Colloquium
Pre-conference**

February 27, 2012



Tobacco Smoke Enema (1750s-1810s)

The tobacco enema was used to infuse tobacco smoke into a patient's rectum for various medical purposes, primarily the resuscitation of drowning victims. A rectal tube inserted into the anus was connected to a fumigator and bellows that forced the smoke towards the rectum. The warmth of the smoke was thought to promote respiration, but doubts about the credibility of tobacco enemas led to the popular phrase "blow smoke up one's ass."

**This Old Tool has been reintroduced in Washington D.C. by
the New Administration.
Are you starting to feel it**

INSIDE THIS WEEK: A 14-PAGE SPECIAL REPORT ON AGEING

The Economist

JUNE 27TH-JULY 3RD 2009

Economist.com

Iran's agony

The mystery of Mrs Merkel

Asia's consumers to the rescue?

The Greeks and those marbles

Evolution and depression

Reforming health care

This is going to hurt



US\$6.99 • C\$7.99



Argentina.....	\$7.00	Canada.....	C\$7.99	Japan.....	¥1310	Turkey & Kosovo.....	TL\$43
Bahamas.....	\$9.95	Chile.....	C\$5.000	Mexico.....	Mex\$70	Turks & Caicos.....	\$9.50
Barbados.....	BBD\$18.00	Colombia.....	C\$522.000	Peru.....	S/ 36.00	UK.....	£4.00
Bermuda.....	B\$5.500	Costa Rica.....	₡4.900	Spain.....	€5.50	USA.....	US\$6.99
Brazil.....	R\$29.90	Guyana.....	G\$1.650	St. Maarten.....	ƒ9.25	Venezuela.....	Bol27

What % of adult Americans do the following?

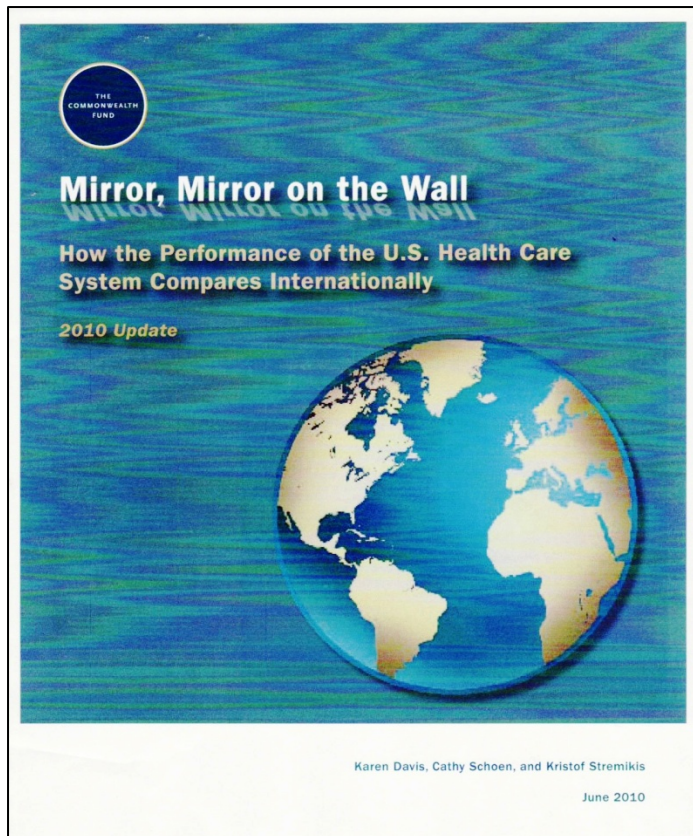
1. Exercise 20 mins. 3x/week
2. Don't smoke
3. Eat fruits and vegetables regularly
4. Wear seatbelts regularly
5. Are at appropriate BMI

Annals Int Med
April 2006

Determinants of Health

1. Smoking
2. Unhealthy diet
3. Physical inactivity
4. Alcohol use

**Together, these account for
40% of all deaths**



A World of Hurt

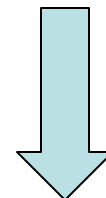


Exhibit ES-1. Overall Ranking

Country Rankings	
	1.00–2.33
	2.34–4.66
	4.67–7.00

OVERALL RANKING (2010)

Quality Care	
Effective Care	
Safe Care	
Coordinated Care	
Patient-Centered Care	
Access	
Cost-Related Problem	
Timeliness of Care	
Efficiency	
Equity	
Long, Healthy, Productive Lives	
Health Expenditures/Capita, 2007	

AUS	CAN	GER	NETH	NZ	UK	US
3	6	4	1	5	2	7
4	7	5	2	1	3	6
2	7	6	3	5	1	4
6	5	3	1	4	2	7
4	5	7	2	1	3	6
2	5	3	6	1	7	4
6.5	5	3	1	4	2	6.5
6	3.5	3.5	2	5	1	7
6	7	2	1	3	4	5
2	6	5	3	4	1	7
4	5	3	1	6	2	7
1	2	3	4	5	6	7
\$3,357	\$3,895	\$3,588	\$3,837*	\$2,454	\$2,992	\$7,290

Note: * Estimate. Expenditures shown in \$US PPP (purchasing power parity).

Source: Calculated by The Commonwealth Fund based on 2007 International Health Policy Survey; 2008 International Health Policy Survey of Sicker Adults; 2009 International Health Policy Survey of Primary Care Physicians; Commonwealth Fund Commission on a High Performance Health System National Scorecard; and Organization for Economic Cooperation and Development, *OECD Health Data, 2009* (Paris: OECD, Nov. 2009).





Kevin Harvick: Third win of season.

Harvick is first to get Chase slot

■ Driver's study of Earnhardt tapes pays off as he wins the Carfax 400. NASCAR, 1, 7C

USA TODAY

NO. 1 IN THE USA

Monday, August 16, 2010

Glimpse the future of primary health care

Innovative programs counter doctor shortage

By Rita Rubin
USA TODAY

About 65 million Americans live in communities with a shortage of primary care doctors, physicians trained to meet the majority of patients' health care needs over the course of their lives.

How much more difficult will finding a primary care doctor become as a result of the recently passed health care overhaul legislation, which will extend coverage to an estimated 34 million currently uninsured Americans by 2019?

Massachusetts, which in 2006 passed a law that led to nearly universal coverage of its 6.6 million residents, might provide some clues.

In that state, fewer and fewer internists and family practice doctors are taking new patients, and wait times to see family practice doctors are lengthening, according to the Massachusetts Medical Society and the non-profit Massachusetts Health Quality Partners.

Even before Congress in March passed the landmark law designed to make health care more affordable and expand coverage, an aging population and doctors' increasing preference for higher-paying specialties set the stage for a primary care shortage. And what many believe to be an outdated reimbursement system — one that drives



By William Thomas Cain for USA TODAY

Nurse practitioner: Donna Torrisi helped create the Family Practice and Counseling Network.

doctors to schedule office visits when a quick phone call or e-mail might do — doesn't help.

The shortage of primary care doctors could lead to longer waits not only for primary care, but also for specialty care as well as greater use of expensive emergency rooms for non-emergencies, researcher Walt Zywiak of Computer Sciences Corp., an international consulting company headquartered in Falls Church, Va., noted in a July report.

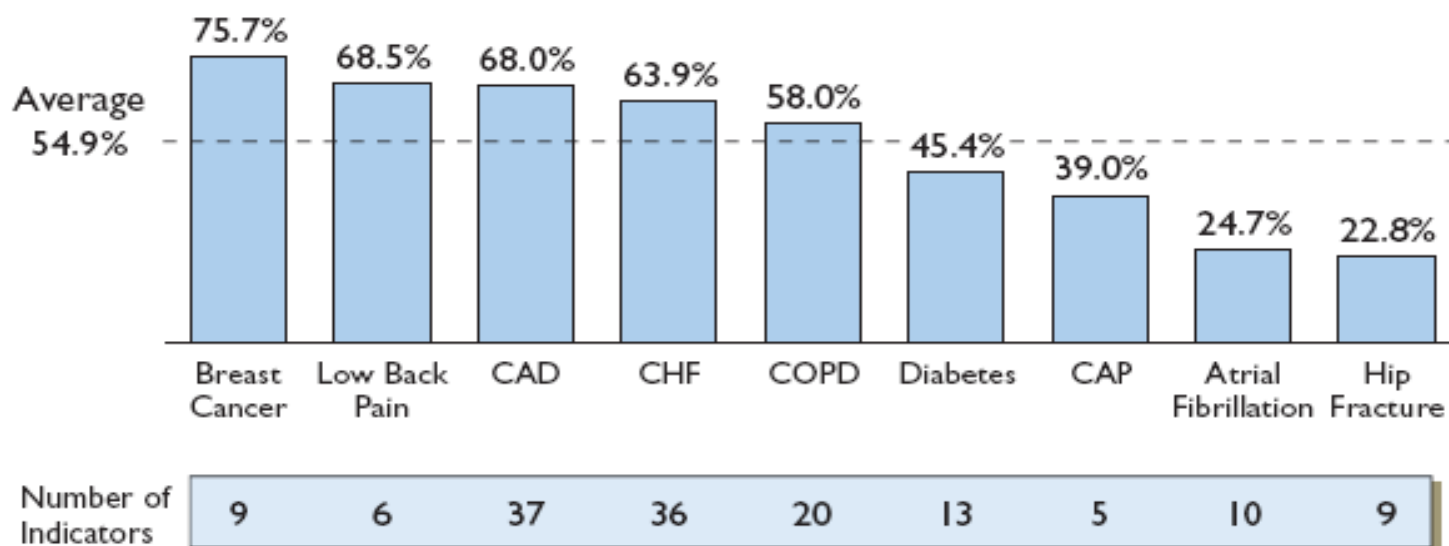
But some innovative programs provide a glimpse of what the future of primary care — a

Cover story

Please see COVER STORY next page ►

Uneven Adherence to the Evidence

Percentage of Recommended Care Received, by Condition¹



Source: McGlynn EA, et al., "The Quality of Health Care Delivered to Adults in the United States," *New England Journal of Medicine*. June 26, 2003: 2635–2645.

VALUE-DRIVEN HEALTH CARE

A PURCHASER GUIDE

VERSION 1.0 - FEBRUARY 2007



PREPARED BY BAILIT HEALTH PURCHASING, LLC

Available at http://www.leapfroggroup.org/news/leapfrog_news/Purchaser_Guide

The McGraw-Hill Companies

BusinessWeek

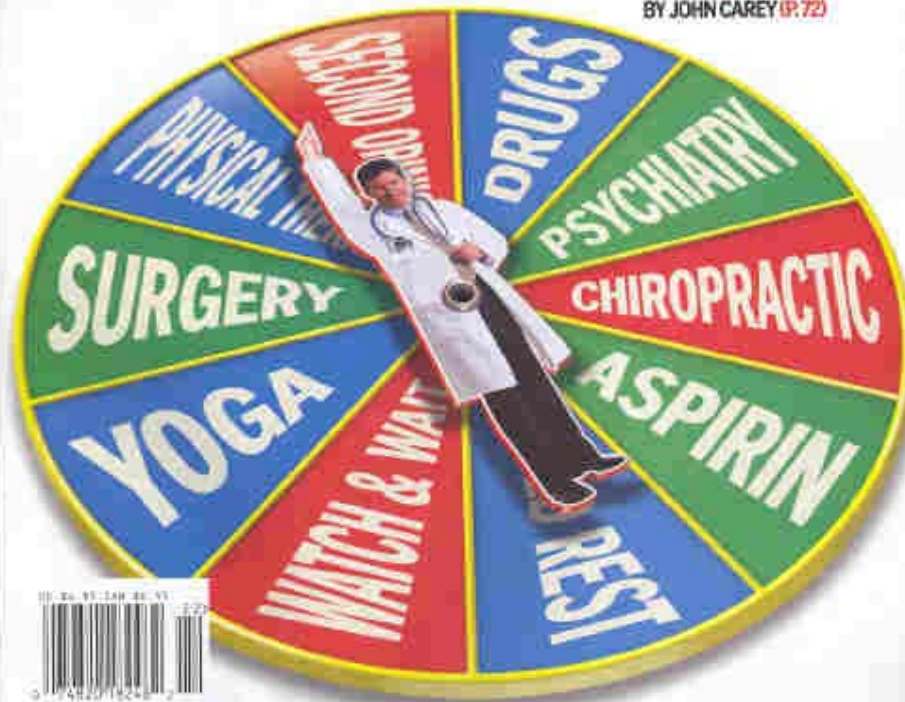
MAY 29, 2006

www.businessweek.com

Medical Guesswork

From heart surgery to prostate care, the medical industry knows little about which treatments really work

BY JOHN CAREY (P.72)



ARE DOCTORS JUST PLAYING HUNCHES?

We expect them to use hard data. But that's not always the best kind of medicine

By CHRISTINE GORMAN

NOBODY PRETENDS MEDICINE IS EASY, BUT IF THERE'S ONE thing we ought to be able to rely on, it's that the doctors looking out for us are doing more than playing hunches. We take certain medicines because they work, right? We go into the operating room for certain procedures because they'll make us well, don't we?

Well, maybe. More and more, however, doctors are making the unerring case that no matter how reliable a drug or other treatment appears to be, too often there's simply little hard evidence that it would make a long-term difference in a person's quality of life or prolonged survival. Obviously, drugs are tested rigorously to show that they are safe and effective before they are approved by the U.S. and other developed countries. But a clinical study is not the real world, and just because a drug leads to a statistically significant improvement in, say, cholesterol levels doesn't guarantee that the desired effect—a healthier heart and a longer life—will follow. Often your doctor is left to make prescription decisions based at least in part on faith, bias or even an educated guess. That ought to be enough to spook even the least jumpy patient, but the fact is, recognizing just what a roll of the dice medicine can be may be a good thing.

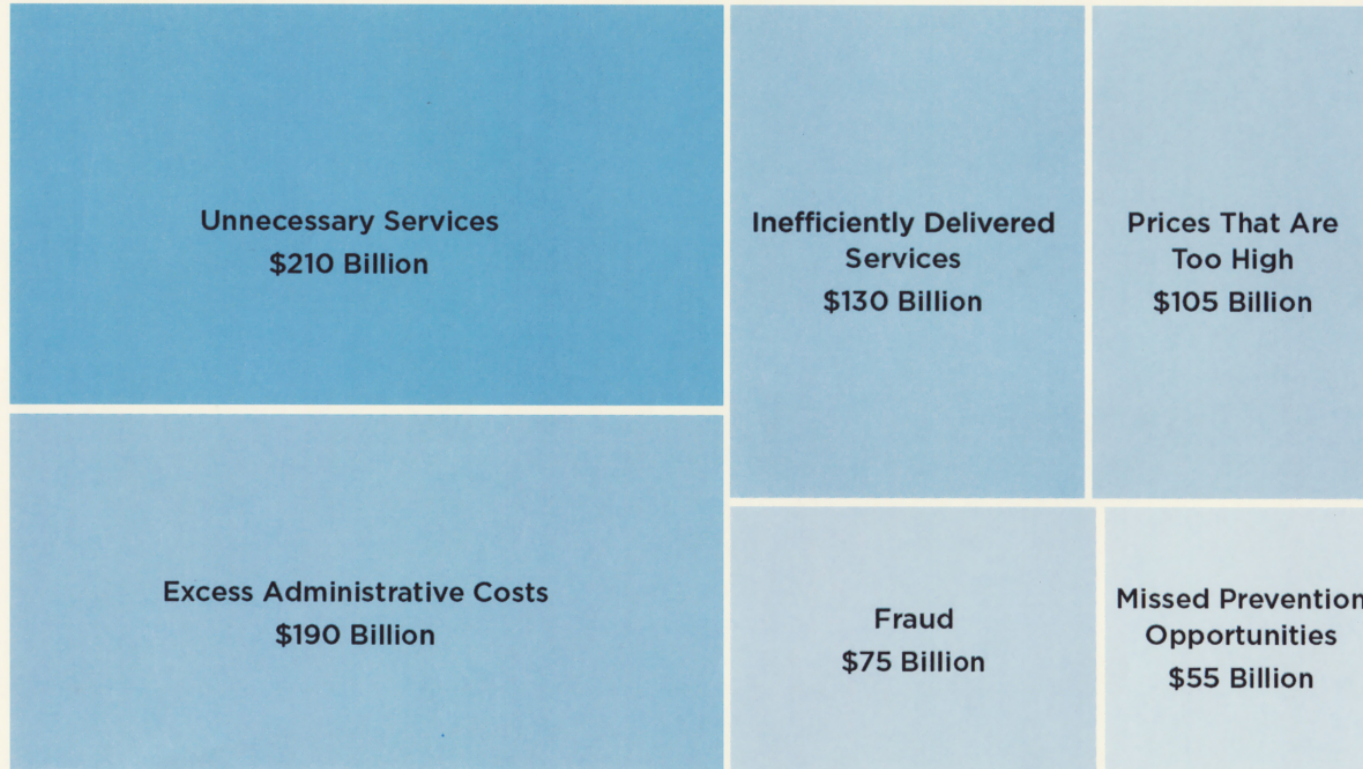
Increasingly, doctors seeking to provide their patients with the best possible care are exploring what is known as evidence-based



**It is possible to improve care
and dramatically lower costs.**

Berwick Annals 2/98

Domains of Excess Costs



INSTITUTE OF MEDICINE

OF THE NATIONAL ACADEMIES

Advising the nation / Improving health

Getting to 10%

CARE-RELATED COSTS

- Prevent medical errors
- Prevent avoidable hospital admissions
- Prevent avoidable hospital readmissions
- Improve hospital efficiency
- Decrease costs of episodes of care
- Improve targeting of costly services
- Increase shared decision-making

ADMINISTRATIVE COSTS

- Use common billing and claims forms

RELATED REFORMS

- Medical Liability Reform
- Prevent Fraud and Abuse

INSTITUTE OF MEDICINE

OF THE NATIONAL ACADEMIES

Advising the nation/Improving health

Definition of Quality

Institute of Medicine

“The degree to which health services for individuals and population increase the likelihood of desired health outcomes and are consistent with current professional knowledge.”

Advance Copy Uncorrected Proofs

FIRST, DO NO HARM

TO ERR IS HUMAN

BUILDING A SAFER HEALTH SYSTEM

INSTITUTE OF MEDICINE

"USA TODAY hopes to serve as a forum for better understanding and unity to help make the USA truly one nation."

—Allen H. Neuharth, Founder, Sept. 15, 1982

President and Publisher: Craig A. Moon

Editor: Kenneth A. Paulson
Executive Editor: John Hilkirk
Editorial Page: Brian Gallagher
Managing Editors:
News, Carol Stevens; Money, Jim Henderson;
Sports, Monte Lorell; Life, Susan Weiss;
Graphics & Photography, Richard Curtis



Senior Vice Presidents: Advertising, Jacki Kelley;
Circulation, Larry Lindquist; Electronic, Jeff Webber
Vice Presidents:
Finance, Myron Maslowsky;
Human Resources, Janet Richardson;
Information Technology, John Palmisano;
Marketing, Melissa Snyder; Production, Ken Kirkhart

Today's debate: Medical errors

Why do so many still die needlessly in hospitals?

Our view:

Part-voluntary, part-mandatory reporting system can reduce deaths.

When a report came out last week from a private group claiming that nearly 200,000 hospital patients die each year from preventable medical errors, it promptly sparked a fierce controversy.

The estimate was double the number found in a landmark study in 1999 by the Institute of Medicine (IOM), a federal advisory group, and the lead author of that earlier study went on the offensive. He charged that the new report used flawed research methods that inflated the fatalities.

But why argue? The difference alone makes a more telling point: Five years after the IOM report drew front-page headlines and widespread outrage, there still is not even a sure way to measure the problem. And that appalling fact should concern any prospective hospital patient — which is to say, everyone.

This year, Congress is finally doing something, though hardly enough.

Before the end of the year, it is expected to install new incentives for medical personnel to report errors. The new system, already approved by both houses, would allow doctors, nurses and other hospital workers to report mistakes anonymously. Independent analysts would then look for patterns and recommend changes. Lawyers and employers would be kept in the dark.

That's an important step.

Suppose, for instance, that a nurse gives a patient the wrong pill because its name and packaging resemble a drug next to it on the hospital's pharmacy shelf. Neither she nor the pharmacist will want to reveal the error, for fear of being punished or sued. The error likely will recur.

But if they can confidentially report the problem, experts can devise ways to improve the packaging and placement of med-

Mistakes cost lives

Highlights from a new study of medical errors involving Medicare patients hospitalized from 2000 through 2002:

- ▶ Out of 37 million hospitalizations, 1.14 million "safety incidents" occurred.
- ▶ 263,864 deaths were directly attributed to the incidents.
- ▶ The safety incidents accounted for \$8.54 billion in additional Medicare costs.
- ▶ Nearly 60% of safety incidents involved the failure to diagnose and treat conditions that developed in the hospital, bedsores and post-operative infections.

Source: HealthGrades' "Patient Safety in American Hospitals" study released July 27

icines to reduce the risk of simple human error. Lives will be saved.

Six states that have set up similar procedures have seen a significant increase in reported mistakes.

That's clearly the right way to handle relatively minor mistakes, even when they result in some harm.

Even so, the picture will still be woefully incomplete — and patients will remain at risk — unless the reporting of errors that kill or cause the most serious injuries is made mandatory.

Only 22 states currently have mandatory error-reporting systems. The others rely on hospital-industry watchdogs or malpractice lawyers to be on the lookout for mistakes.

The argument over numbers is proof that leaving the solution to the courts is not a prescription for eliminating deadly errors.

Five years ago, the IOM recommended a two-tiered approach, part voluntary, part mandatory. It is still the most sensible compromise.

The question is why five years have elapsed with so little being done. With tens of thousands dying needlessly every year, the next life at risk may be your own.

The Forum

Medical mistakes plague Medicare patients

Today's inspector general's report: About 1 in 7 patients experienced serious harm during hospital stay

By Daniel R. Levinson

Today's hospitals are modern-day marvels of healing, and we expect them to be models of patient safety as well. But a just-released report from my office shows that medical care is falling short for too many hospitalized Medicare patients. A decade after an Institute of Medicine study placed preventable medical errors among the leading causes of death in the United States, our latest study found that a disturbing number of hospitalized patients still endure harmful consequences from medical care, 44% of them preventable. These instances, which the report calls "adverse events," include infections, surgical complications and medication errors.

Such occurrences are not always preventable, particularly since many Medicare patients are elderly and have complicated health problems. But enough patient harm is avoidable to make a strong case for action. Hospitals must improve, but they need the help of lawmakers, medical professionals and patients to do so.

Errors prolonged hospital stays

This study began in response to a congressional mandate to determine the number of harmful medical events Medicare patients experienced, and the cost to taxpayers. My office arranged for physician reviewers to examine a ran-



2008 USA TODAY photo

Hefty price: Additional care caused by errors costs more than \$4 billion each year.

dom sample of 780 Medicare patients discharged from hospitals around the country during the month of October 2008.

Physicians determined that about one in seven patients (13.5%) experienced at least one serious instance of harm from medical care that prolonged their hospital stay, caused permanent harm, required life-sustaining intervention, or contributed to their deaths. Projected to the entire Medicare population, this rate means an estimated 134,000 hospitalized Medicare beneficiaries experienced harm from medical care in one month, with the event contributing to death for 1.5%, or approximately 15,000 patients.

Strikingly, medication errors factored

in more than half the patient fatalities in our sample, including use of the wrong drug, giving the wrong dosage, or inadequately treating known side effects. Such events were commonly caused by hospital staff diagnosing patients incorrectly or failing to closely monitor their conditions.

Less serious harm also occurred. An additional one in seven hospitalized Medicare patients experienced temporary problems, such as allergic reactions or injuries from falls. And many experienced multiple events, including an elderly heart patient who had six separate events during a single hospital stay. Obviously, this situation is unacceptable — and expensive, costing taxpayers more than \$4 billion a year due to the need for

additional treatment or longer hospitalizations (and even more if you add costs for follow-up care).

Hospitals clearly want to excel in patient care — and often do. Still, improvements can and must take place. Fully addressing the far-reaching implications of our study requires both an official response and a personal one.

The report made recommendations for improvement to agencies within the Department of Health and Human Services that monitor medical care. Those agencies are committed to increasing medical effectiveness and have embraced the recommendations. Among them are the following:

- ▶ Too many patient safety efforts concentrate on a narrow list of egregious medical problems that thankfully occur rarely, such as surgery performed on the wrong body part. This focus overlooks the need to also concentrate on far more common harmful incidents, such as blood clots and poor diabetes control.

- ▶ Government, which pays for a large portion of the nation's medical care, must hold hospitals accountable for better care. New authorities granted by Congress further enable the Medicare program to use hospital performance as a basis for payment. Private insurers can join Medicare in finding effective ways to tie payment to quality.

Government commitment is important, yet hospitals bear much of the responsibility. Although hospitals have broadly embraced safety initiatives, the

still-high rate of adverse events indicates that far more needs to be done. Hospitals must work faster to adopt evidence-based practices that reduce medical errors. Hospitals can also learn together by volunteering to join patient safety organizations, which collect confidential information about instances of harm that occur from medical care to assess what went wrong and improve patient safety. Further, hospitals can continue to improve patient care systems, including effective use of electronic health records, to help staff avoid mistakes and to alert them to problems.

What you can do

Vigilance saves lives. Family members with hospitalized loved ones should educate themselves regarding medical treatment and expected outcomes and speak up when things go awry. Hospital staff should treat patients and their families as partners, welcoming family monitoring of patients as an additional safeguard against poor medical outcomes.

Sooner or later, most of us will need the help of hospitals. They have earned their current, central place in saving lives and curing disease. We owe it to these critical institutions to help them increase quality of care for the continued health of us all.

Daniel R. Levinson is the inspector general of the Department of Health and Human Services.



Jefferson
School of Population Health


**Consumers
Union**

NONPROFIT
PUBLISHER OF
CONSUMER REPORTS

TO ERR IS HUMAN – TO DELAY IS DEADLY

Ten years later, a million lives lost, billions of dollars wasted

May 2009

 SafePatientProject.org

Only 77% wash hands after using the toilet

Advocates are pushing for more frequent scrubblings in health care and non-health care settings.

VICTORIA STAGG ELLIOTT
AMNEWS STAFF

How clean are your hands? How about the person who just shook yours?

Several presentations at last month's Interscience Conference on Antimicrobial Agents and Chemotherapy in Chicago suggested that people not only wash their hands less often than they say they do, but the number who really do appears to be decreasing. Also, improving hand hygiene in the health care setting saves money.

"Hands are great distributors of disease, but hand washing is a great intervention," said Judy Daly, PhD, spokeswoman for the American Society for Microbiology, which organizes this meeting. She is also director of the microbiology laboratory at Primary Children's Medical Center in Salt Lake City.

According to data from observational and telephone surveys by Harris Interactive, which were commissioned by the society as well as the Soap and Detergent Assn. and released at the meeting, 92% of adults say they always wash their hands after using a public restroom. When ob-

served in places such as train stations and sports stadiums, only 77% actually do. This represented a decline from the 83% observed in the 2005 version of this survey.

Significant gender differences also were seen, with only 66% of men soaping up compared with 88% of women. Similar gaps between men and women also were found by other studies that examined the behavior of doctors and health care professionals.

"Very clearly, guys need to step up to the sink," said Brian Sansoni, vice president of communication for the soap association.

This issue has long concerned medical societies, patient safety organizations and public health agencies. The American Medical Association urges everyone to view hand washing as important. Experts suggest, however, that while this activity is important across the board, more payoff may be gained from programs that focus on health care settings.

"The message about improving hand hygiene is a good message to support, but we will naturally see the greatest result in the places where the

sickest people are," said Dr. M. Lindsay Grayson, vice chair of Austin Hospital/Austin Health in Melbourne, Australia.

In these venues, the benefit of hand hygiene is increasingly being quantified. For instance, a paper presented by Dr. Grayson found that hand hygiene education for health care professionals along with ensuring that alcohol hand rubs were available significantly reduced the number of methicillin-resistant *Staphylococcus aureus* infections. In turn, this result saved his state's health system more than a million dollars.

"We need a culture change," Dr. Grayson said. "Those who provide care should feel funny walking up to a patient having not used an alcohol-based hand rub. And the patient should feel pretty funny, too."

An Argentinean study also found that upping compliance with hand hygiene recommendations in the intensive care unit reduced the device-associated infection rate from nearly 20% to just shy of 5%. But although researchers say these efforts can pay for themselves, improving hand hygiene



PHOTO BY TED GRUDZINSKI

Judy Daly, PhD, presented the hygiene findings at the Chicago conference.

comes with significant challenges. In Dr. Grayson's study, the urban institutions did not do as well as the rural ones because of high staff turnover.

The factors that motivate health care professionals to wash more often also might not be the most obvious ones. A study out of the University of Geneva Hospitals in Switzerland found that the opportunity to reduce nosocomial infections did not increase hand washing, but peer pressure and easy access to hand-washing facilities did. ♦

MAY 1, 2006

www.time.com AOL Keyword: TIME

INSIDE THE WHITE HOUSE SHAKE-UP ■ PREVIEW: HOT SUMMER MOVIES

TIME



WHAT DOCTORS HATE ABOUT HOSPITALS

An insider's view of what can go
wrong—and how you can improve your
odds of getting the right treatment

BY NANCY GIBBS & AMANDA BOWER

HBXBDJLX *****CAR-RT LOT**C-041
#1999 9829 190#TD 899PA02 A SEP06
JOSEPH M CESA 0005
#02598
1100 WALNUT ST PHILADELPHIA .PA 19107-5563 P00378

ADVANCED COPY

I N S T I T U T E O F M E D I C I N E



CROSSING THE QUALITY CHASM

A New Health System for the 21st Century

Institute of Medicine Report 2001

Outlines Key Dimensions of the Healthcare Delivery System:

Safe: avoiding injuries to patients from the care that is intended to help them

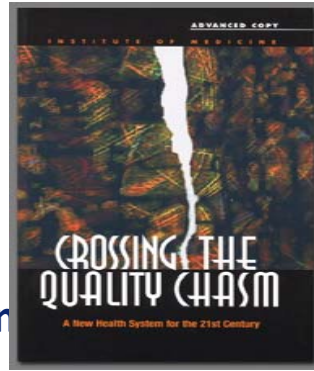
Effective: providing services based on scientific knowledge to all who could benefit and refraining from providing services to those not likely to benefit (avoiding **underuse** and **overuse**, respectively).

Patient-centered: providing care that is **respectful** of and responsive to individual patient preferences, needs, and values and ensuring that patient values guide all clinical decisions.

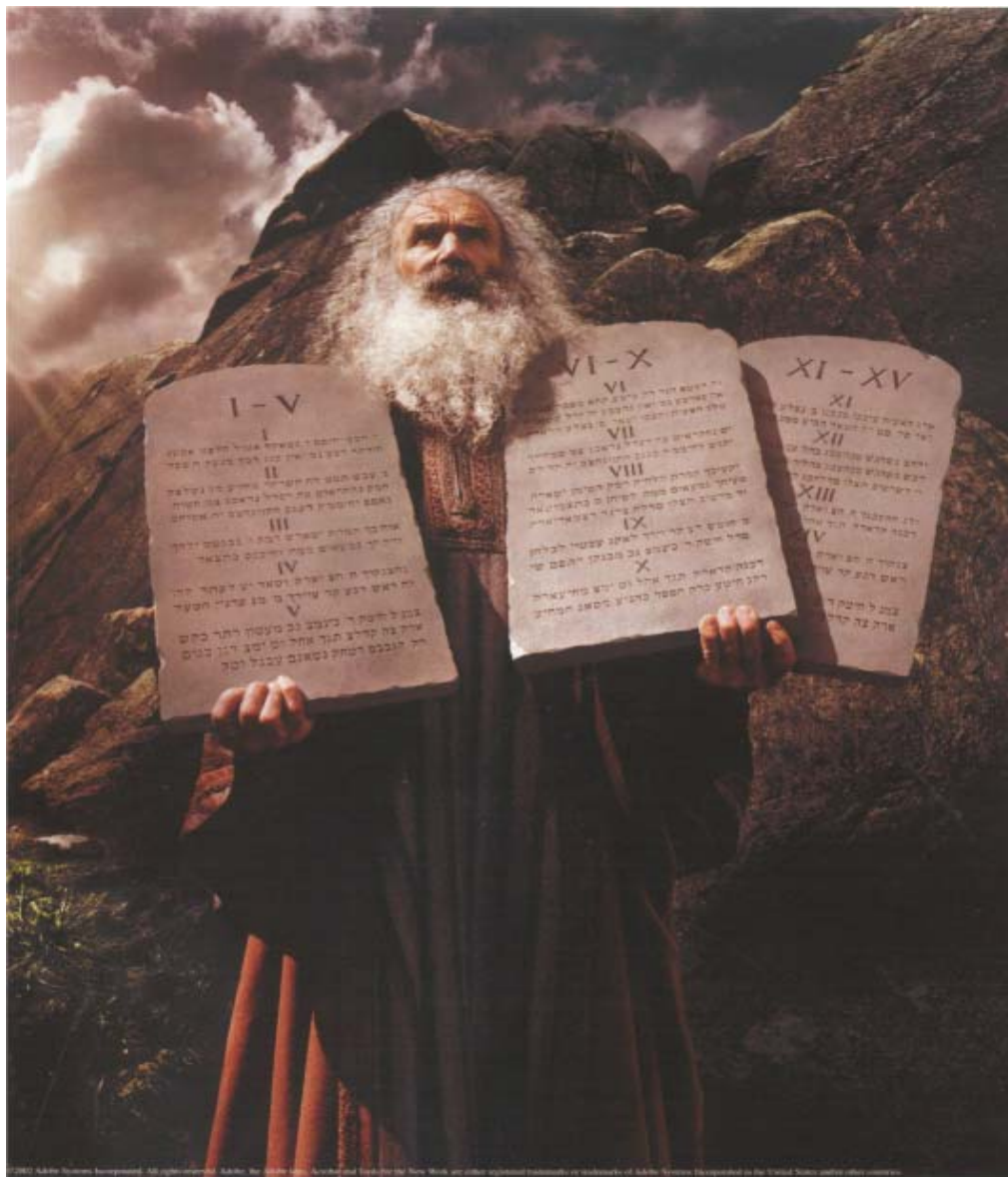
Timely: **reducing waits** and sometimes harmful **delays** for both those who receive and those who give care.

Equitable: providing care that does **not vary** in quality because of personal characteristics such as gender, ethnicity, geographic location, and socioeconomic status.

Efficient: **avoiding waste, including waste of equipment, supplies, ideas, and energy.**



Source: Institute of Medicine 2001; 5-6



©2002 Adobe Systems Incorporated. All rights reserved. Adobe, the Adobe logo, Acrobat and Explorer are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Ten Commandments

Crossing the Quality Chasm

Current Rules

1. Care is based primarily on visits
2. Professional autonomy drives variability
3. Professionals control care
4. Information is a record
5. Decision making is based on training and experience

New Rules

1. Care is based on continuous healing relationships
2. Care is customized according to patient needs and values
3. The patient is the source of control
4. Knowledge is shared freely
5. Decision making is evidence-based

Don Berwick 2002

Ten Commandments (*cont.d*)

Current Rules

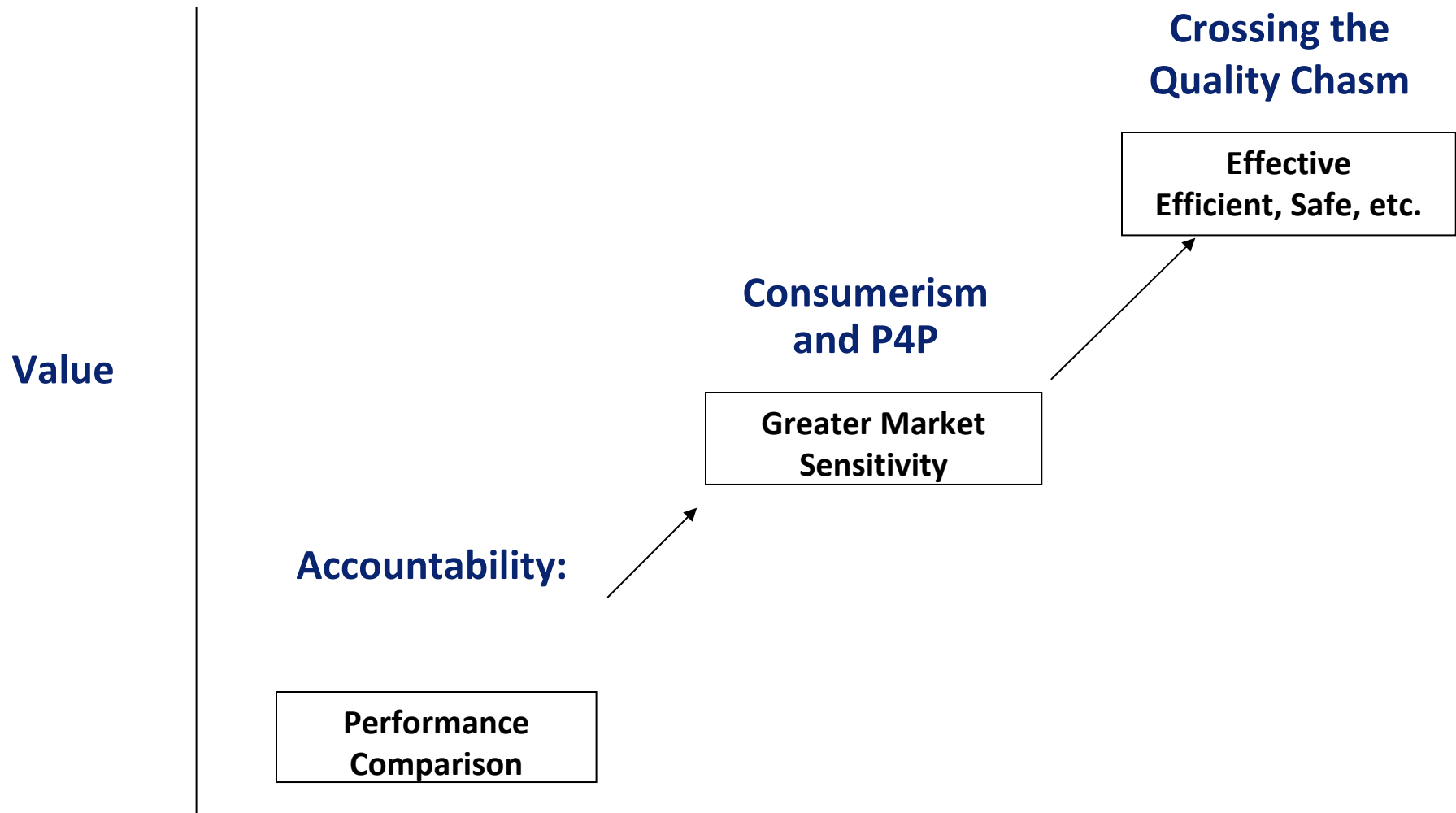
6. “Do no harm” is an individual responsibility
7. Secrecy is necessary
8. The system reacts to needs
9. Cost reduction is sought
10. Preference is given to professional roles over the system

New Rules

6. Safety is a system property
7. Transparency is necessary
8. Needs are anticipated
9. Waste is continuously decreased
10. Cooperation among clinicians is a priority

Don Berwick 2002

The Vision



(Apologies to Tom Lee and Arnie Milstein)

Population Health: Conceptual Framework

Health outcomes

and their distribution
within a population



Morbidity

Mortality

Quality of Life

Health determinants

that influence distribution



Medical care

Socioeconomic status

Genetics

Policies and interventions

that impact these determinants



Social

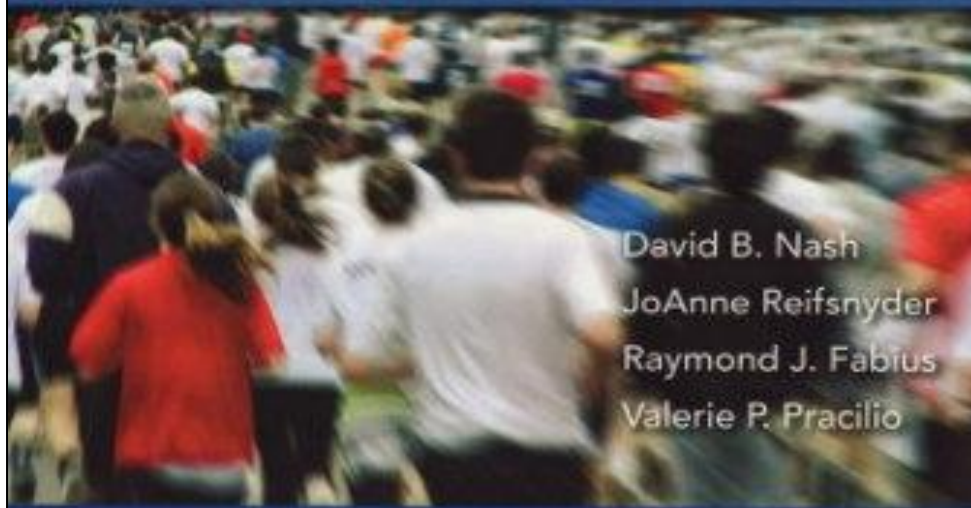
Environmental

Individual

Available
September 2010

POPULATION HEALTH

CREATING A CULTURE
OF WELLNESS



David B. Nash
JoAnne Reifsnyder
Raymond J. Fabius
Valerie P. Pracilio

Population Health Management

CONTENTS

- Lifestyle Behavior and Emotional Health
- Strategic Response by Providers
- Tobacco Dependence Treatment Guideline Implementation
- Theory-Based Telehealth and Patient Empowerment
- Health-Related Productivity Loss
- Quality of Care for Veterans with Chronic Diseases

Editor-in-Chief

David B. Nash, M.D., M.B.A.

Managing Editor

Deborah Meiris

The Official Journal of



Mary Ann Liebert, Inc.  publishers

How Healthy Is Your County?

The 2010 County Health Rankings are here!

For the first time ever, you will be able to compare the overall health of your county, with the health of other counties in your state, as well as compare the factors that contribute to health, such as obesity rates, the quality of

health care, or high school graduation rates.

Now, leaders from all sectors – public health, business, education, health care and government – can see where there are gaps in health and work together to identify and create solutions.

As a leader in your community, you are uniquely positioned to inform people about the rankings and help implement collaborative local solutions so all residents can be healthy.

Visit countyhealthrankings.org to see how the counties in your state rank on health.

County Health Rankings is a program of the Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute.



Robert Wood Johnson Foundation



UNIVERSITY OF WISCONSIN
Population Health Institute
Translating Research into Policy and Practice

Social Determinants of Health – What Doctors Can Do

October 2011



BMA 

State of Well-Being

State, City & Congressional District Well-Being Report

Pennsylvania



Gallup · Healthways
Well-Being Index®

WWW.WELL-BEINGINDEX.COM
866.603.8277

State of Pennsylvania Well-Being

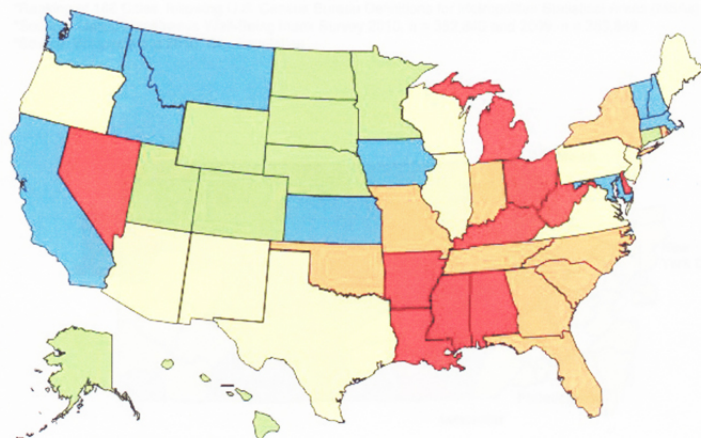
Ranking from data collected January 2, 2010 – December 30, 2010

	Result		Rank	
	2009	2010	2009	2010
Well-Being Overall	65.8	66.1	30	30
Life Evaluation	45.4	47.3	39	31
Emotional Health	78.6	78.7	22	24
Physical Health	76.3	76.4	28	29
Healthy Behavior	62.6	63.5	28	26
Work Environment	47.8	46.9	36	34
Basic Access	84.0	83.9	14	12

*#1 is the top Rank and 50 the bottom

*#0 is the bottom Result and 100 the top (see methodology for descriptions)

*Source: Gallup-Healthways Well-Being Index Survey 2010, n = 352,840 and 2009, n = 353,849



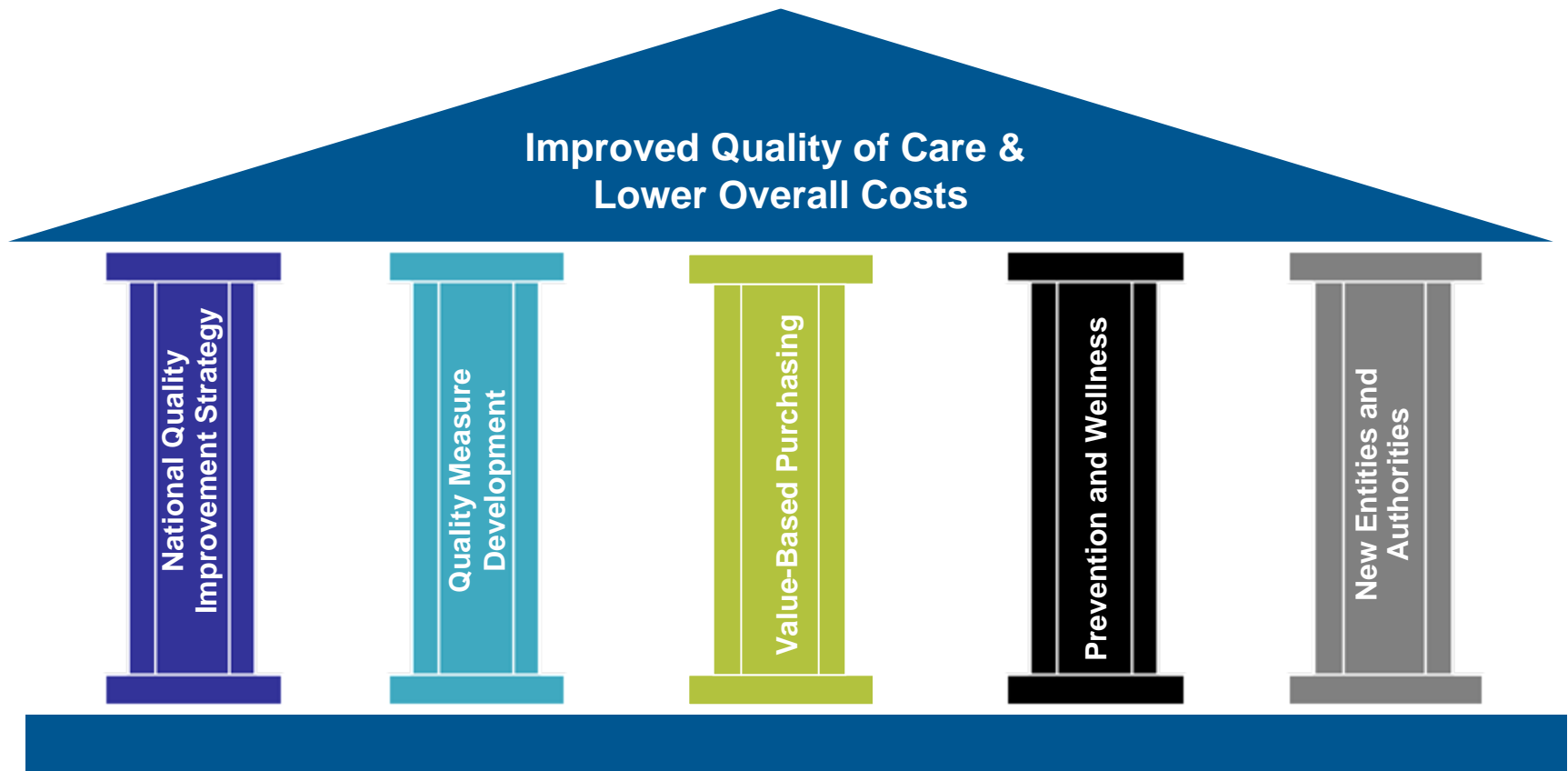
TOP QUINTILE 2ND QUINTILE 3RD QUINTILE 4TH QUINTILE 5TH QUINTILE

1 HI
2 WY
3 ND
4 AK
5 CO
6 MN
7 SD
8 UT
9 CT
10 NE
11 MA
12 WA
13 MD
14 MT
15 NH
16 KS
17 VT
18 CA
19 IA
20 ID
21 VA
22 WI
23 NM
24 NJ
25 ME
26 IL
27 TX
28 OR
29 AZ
30 PA
31 GA
32 NY
33 RI
34 MO
35 SC
36 NC
37 FL
38 OK
39 IN
40 TN
41 MI
42 LA
43 NV
44 DE
45 OH
46 AL
47 AR
48 MS
49 KY
50 WV

2010 WELL-BEING STATE RANKING

WWW.WELL-BEINGINDEX.COM

Health Reform Builds on the Current Quality Infrastructure



JSPH Mission

- To prepare leaders with global vision to develop, implement, and evaluate health policies and systems that improve the health of populations and thereby enhance quality of life

Master of Public Health
MPH



 **CEPH**
Council on Education for Public Health

 **Jefferson.**
School of Population Health

THOMAS JEFFERSON UNIVERSITY

Master of Science
in Health Policy
MS-HP



Online
Program

 **Jefferson.**
School of Population Health

THOMAS JEFFERSON UNIVERSITY

Master of Science in
Healthcare Quality and Safety
MS-HQS



Online
Program

 **Jefferson.**
School of Population Health

THOMAS JEFFERSON UNIVERSITY

Master of Science in
Chronic Care Management
MS-CCM



Online
Program

 **Jefferson.**
School of Population Health

THOMAS JEFFERSON UNIVERSITY

Master of Science in
Applied Health Economics
and Outcomes Research
MS-AHEOR

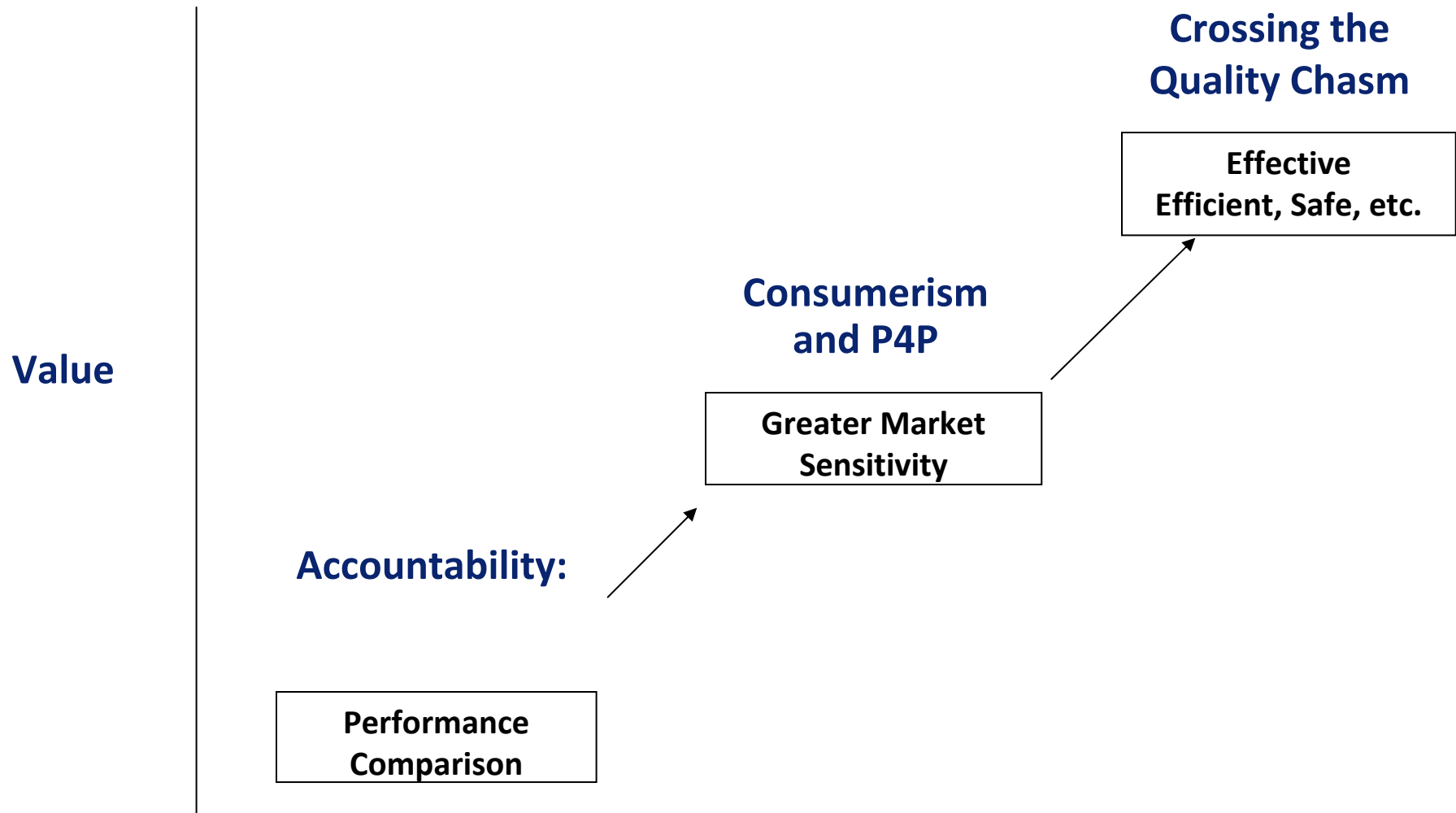


Online
Program

 **Jefferson.**
School of Population Health

THOMAS JEFFERSON UNIVERSITY

The Vision



(Apologies to Tom Lee and Arnie Milstein)

Nash's Immutable Rule



High Quality
care
costs less!

Autonomy and Accountability

A Zero Sum Game?

