



# Striving for Value in Pediatrics

Association of Administrators in Academic Pediatrics (AAP)  
2015 Annual Meeting

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May 17, 2015

# Disclosures

- The speaker has no relevant financial interests or affiliations with the manufacturer or distributor of any medical products, devices or services to disclose.
- The speaker will not be discussing investigational or unlabeled uses of products and/or services.

# Learning Objectives

- Define high-value health care.
- Recognize the urgent need for focus on value in healthcare delivery in the United States.
- Review opportunities and challenges to an emphasis on value for pediatric healthcare and academic medicine.



3-year-old male,  
history of asthma,  
hospitalized for 2  
nights for status  
asthmaticus via the  
emergency  
department

What was the value?





to be best in any  
point of view.

**Value** [val'ū:] n.  
property of a th  
useful or estim  
reasonable pri

Define high-value health care.

$$\text{VALUE} = \frac{\text{QUALITY}}{\text{COST}}$$



$$\text{Value-Based Healthcare} = \frac{\text{Health Outcomes Over Care Cycle}}{\text{Total Costs of Delivering Outcomes For condition}}$$



# Quality in the Eyes of the IOM



**Safe**

**Effective**

**Efficient**

**Timely**

**Patient-centered**

**Equitable**

# Cost

**expenditure of something, such as time or labor, necessary for the attainment of a goal**

**Direct or Indirect Costs**

**Fixed or Variable Costs**

**Marginal or Incremental Costs**

**Short- or Long-term Costs**

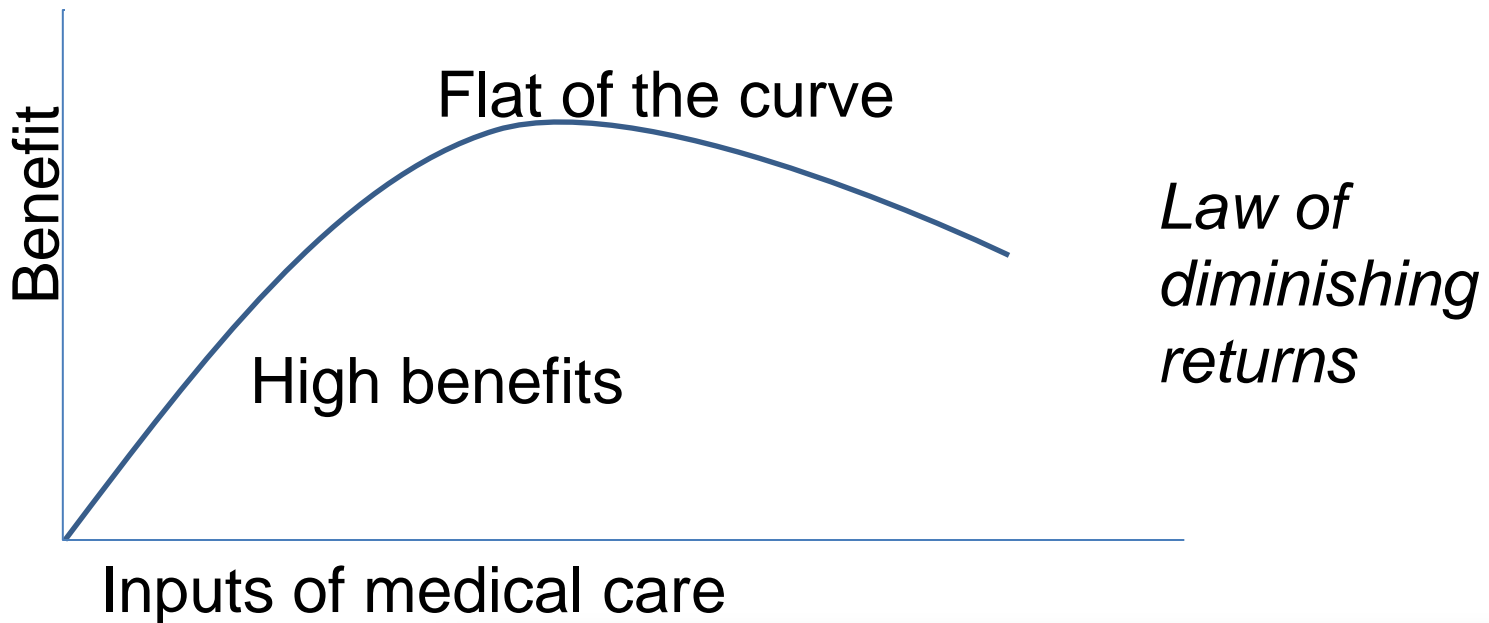
**Opportunity or Real Costs**

**Cost = Price × Quantity**

“A billion here, a billion there, and pretty soon you're talking real money.”  
– Attributed to Senator Everett Dirksen

# What is Not High-Value?

- Doing more without improvement in quality – or actually doing harm



**JAMA<sup>®</sup>**

Online article and related content  
current as of April 10, 2009.

**Avoiding the Unintended Consequences of Growth in  
Medical Care: How Might More Be Worse?**

Elliott S. Fisher; H. Gilbert Welch

JAMA. 1999;281(5):446-453 (doi:10.1001/jama.281.5.446)

# Value $\neq$ Cost $\neq$ Quality

- Better health – and better, more reliable healthcare delivery is a key driver of reducing costs and increasing value
- High-cost interventions may provide good value because they are highly beneficial
- Low-cost interventions may have little or no value if they provide little benefit or increase downstream costs
- **Attention to value is not intended to discourage appropriate or beneficial care**



# Value







**Recognize the urgent need to focus on value in healthcare**

# Why Care About Quality, Cost, Value

Low-value  
system /  
Waste

Lack of  
knowledge

Payment  
system  
changes

Stewardship /  
Duty to patients

Professional  
accountability

Opportunity  
costs

Transparency &  
Public scrutiny

Cost  
accounting

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# We Spend

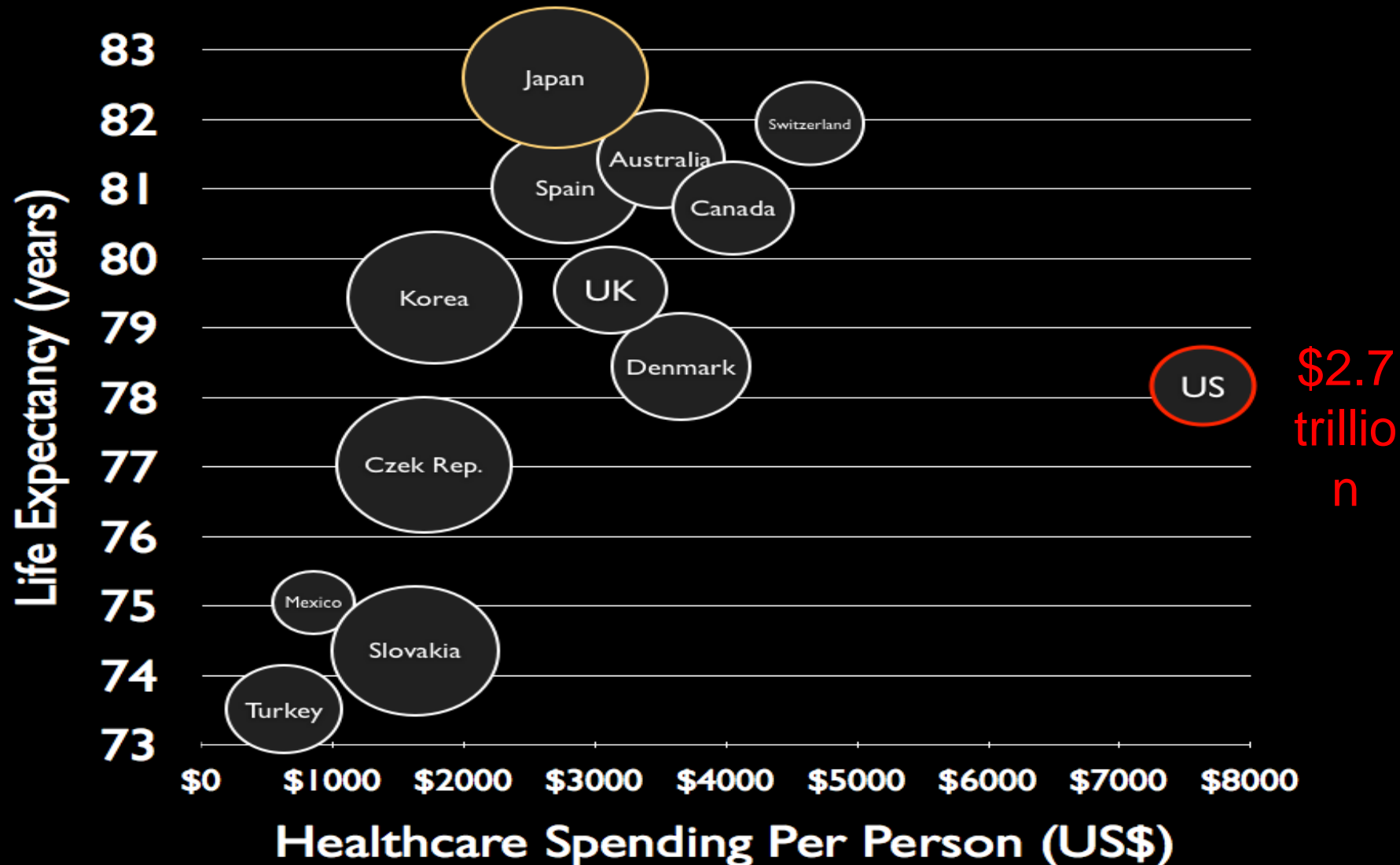
- \$2.7 trillion
- \$7000
- \$837 billion
- \$95,547,945

# We Spend a Lot

- \$2.7 trillion spent annually on health care
- \$7000 per American
- \$837 billion spent on hospital care
- \$95,547,945 spent per hour on hospital care

# “Paradox of excess and deprivation”

Enthoven & Kronick 1989

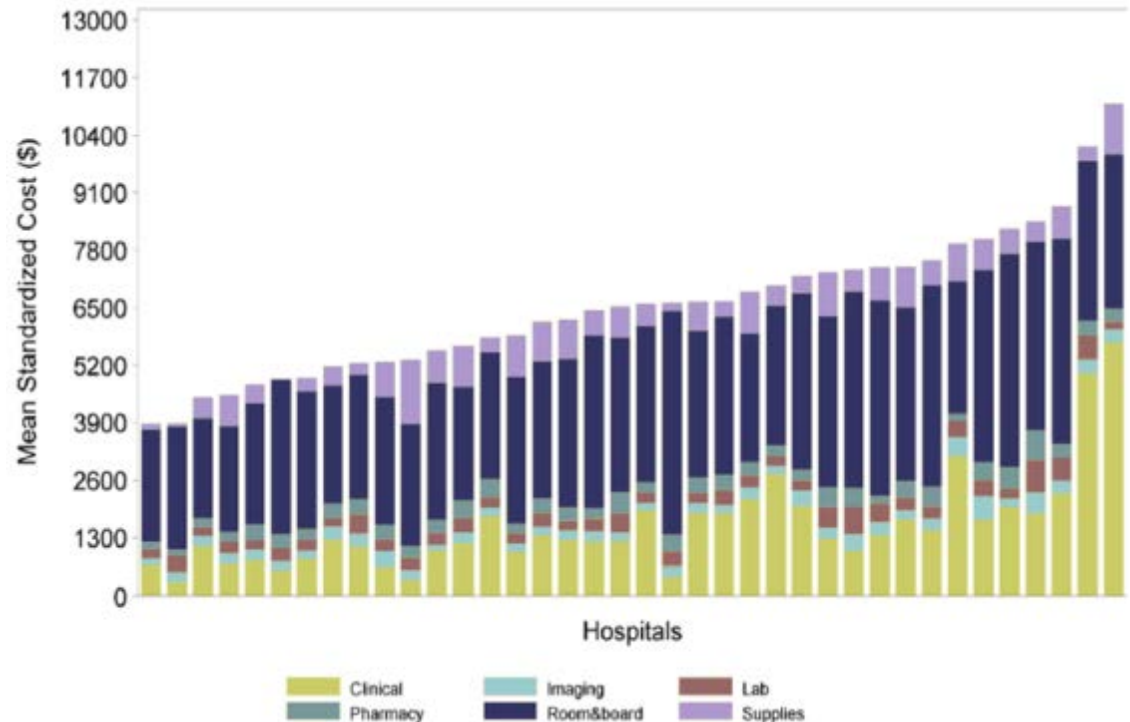


# We Waste A Lot of What We Spend

\$765 Billion in “Waste”



# We Have Unwarranted Variation



Medicare Spending per EnrolleePediatric Condition Cost by Cate



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# ACA and Beyond

- Accountability
- Transparency
- Value
- Stewardship



# Where Are We Going



**Pay for services/procedures**

**Fee for service**

**Incentives for volume**

**More facilities & capacity**

**Hospital-centric**

**“Savings” accrue to payers mostly**

**Pay for value**

**Bundled to global payments**

**Incentives for outcomes**

**Appropriate settings**

**Continuum/Population-health**

**Shared savings**

# Payment System Changes are Relevant

- Lower payments are expected from private and public payers
- Episodes and bundling payment shift financial risk to providers
- Exclusion of “high cost” providers from networks, tiers
- Consumers will bear greater share of cost (copayments, coinsurance, deductibles)



- AMC’s mission-driven activities in advancing patient care, conducting innovative research, providing quality education, and community engagement depend on margins from clinical care

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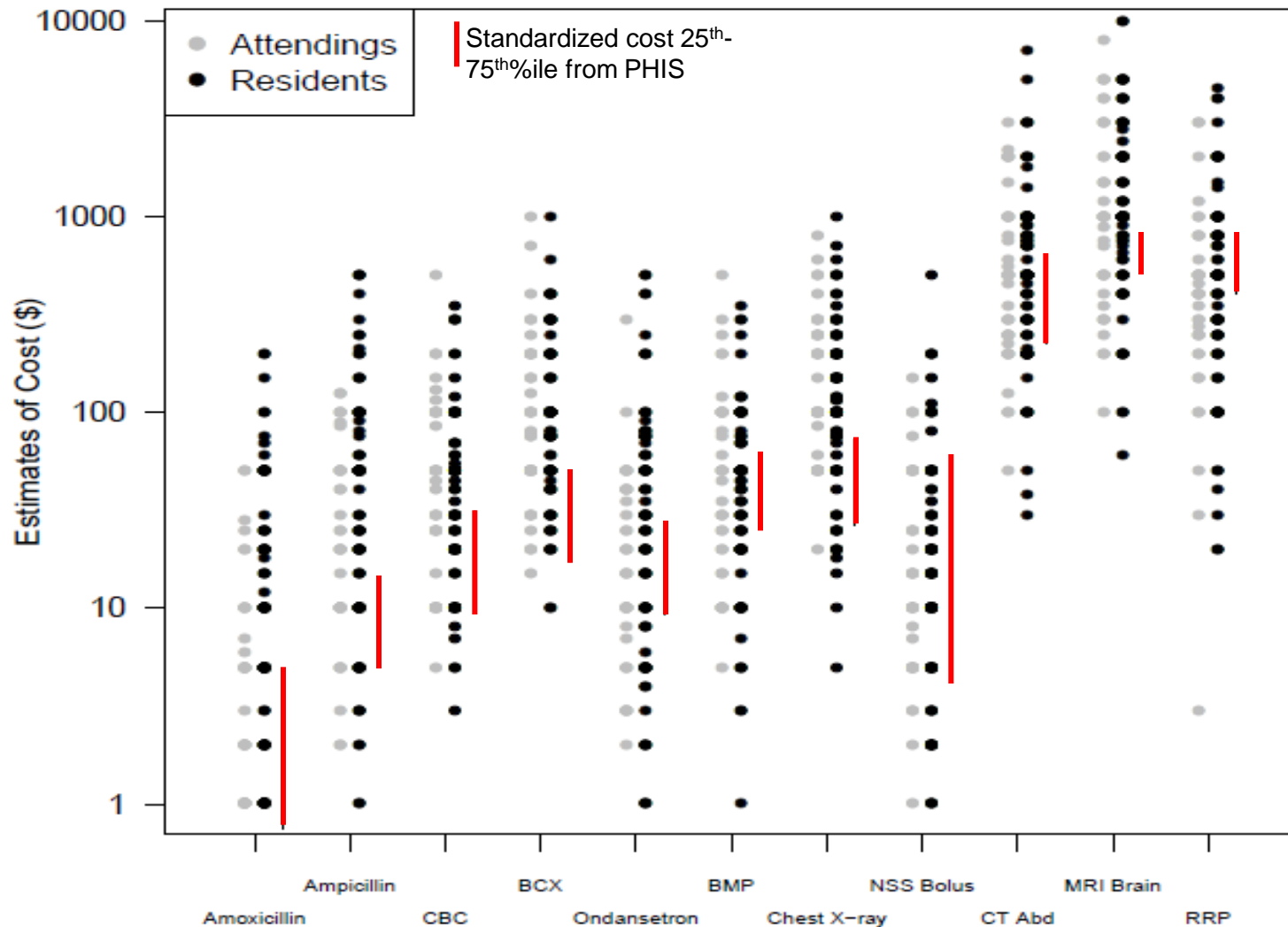
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# Costs: We Just Don't Know



# The Need for Physician Education in Health Care Costs to Enhance Efficiencies in Care Delivery

The article by Rock et al<sup>1</sup> in this issue of *Pediatrics* highlights an important issue surrounding the challenge of high health care costs in the United States: the lack of knowledge by physicians of cost of care. Their research provides 3 key messages that can inform future health care policies. First, physicians generally have limited knowl-

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*American Academy of Pediatrics, Elk Grove Village, Illinois; and  
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**KEY WORDS**

cost containment, health care costs, physician education, quality, value

- “there is an urgent need for implementing educational strategies to provide the necessary training for physicians at every level of experience.”

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# Transparency is Arriving

FOR IMMEDIATE RELEASE  
April 9, 2014

Contact: HHS Press Office  
(202) 690-6343

Historic release of data gives consumers unprecedented transparency on the medical services physicians provide and how much they are paid

Today, as part of the Obama administration's work to make our health care system more transparent, affordable, and accountable, Health and Human Services (HHS) Secretary Kathleen Sebelius announced the release of new, privacy-protected data on services and procedures provided to Medicare beneficiaries by physicians and other health care professionals. The new data also show payment and submitted charges, or bills, for those services and procedures by provider.

The New York Times

**The New York Times**  
How to Charge \$546 for Six Liters of Saltwater

By NINA BERNSTEIN

It is one of the most common components of emergency medicine: an

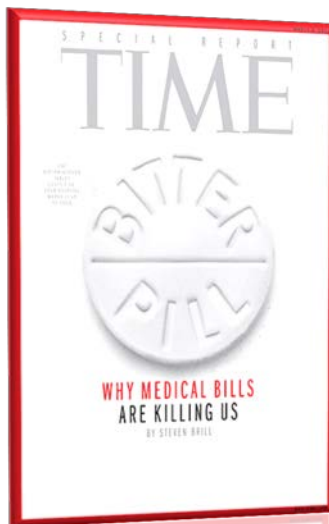
[A hospital spokeswoman] defended the markup as "consistent with industry standards." She said it reflected "not only the cost of the solution but a variety of related services and processes," like procurement, biomedical handling and storage, apparently not included in a charge of \$127 for administering the IV and \$893 for emergency-room

## The Pricing Of U.S. Hospital Services: Chaos Behind A Veil Of Secrecy

An economist's insights into what causes the variation in pricing, and what to do about it.

by Uwe E. Reinhardt

**ABSTRACT:** Although Americans and foreigners alike tend to think of the U.S. health care system as being a "market-driven" system, the prices actually paid for health care goods and services in that system have remained remarkably opaque. This paper describes how U.S. hospitals now price their services to the various third-party payers and self-paying patients, and how that system would have to be changed to accommodate the increasingly popular concept of "consumer-directed health care." [*Health Affairs* 25, no. 1 (2006): 57-69]



DATE/TIME	DESCRIPTION	AMOUNT	DESCRIPTION	AMOUNT
08/13/12	250 PHARMACY GENERAL	287.68	LAB CHEMISTRY	144.00
08/13/12	252 PHARMACY GEN-GENERIC DRUGS	2.60	LAB CROBIOLOGY	91.00
08/13/12	258 PHARMACY IV SUPPLIES	146.00	LAB EMERG/ICU ROOM SERVICES	1776.03
08/13/12	270 M7A SUPPLY GENERAL	333.00		
08/13/12	270 M7A SUPPLY GENERAL	333.00		
08/13/12	EX CMO LEVEL IV MD 25	894.00		
08/13/12	INTRAVENOUS RES ADMIN	127.00		
08/13/12	CONF MEET PANEL	0.00		
08/13/12	CMC HONORARIUM (FROM 37204192)	39.00		
08/13/12	MANUAL DIFF. (FROM 37204192)	39.00		
08/13/12	150000 ROOM WALKIN IN-9: SOLUT	39.00		
08/13/12	990AC1 1000M	3.00		
08/13/12	CONSTRUCTION INJ 2 MC VII ORGANS	3.00		



All In | August 26, 2013

## Why do 6 bags of salt water cost you \$546?

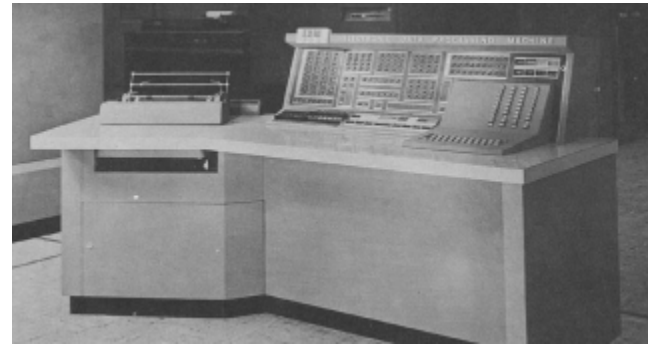
Chris Hayes explains how the out of control health care system leads to costs of hundreds of dollars for things as simple as saline solution and how we can change that by making health care reform even stronger.

Share This:



# Costs Will be Known

- Cost accounting systems are being installed
- Consumers can access comparative costs data online

Printable Detailed Pricing Agreement'."/>

**Healthcare Bluebook**

**Search**

Hospital Physician X-ray, Imaging Labs Cosmetic Medicine Dental Hearing Aids Medic

**Hearing Test**

Total Fair Price: \$71

**Fair Price Fee Details**

Physician Services

Fee: \$71

Fee Details: Price includes the total amount for both physician (interpretation) and technical (the test) fees. Sometimes the procedure will be billed in two parts but they should add up to the listed price. Test both ears for hearing.

Pricing Agreement: [Printable Detailed Pricing Agreement](#)

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**Stewardship /  
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We walked the halls of CHOP and asked  
patients the same question:

If you could give one gift  
to every child at CHOP to cheer them  
up, what would you give them?

**"A puppy,**  
because they  
are cute."

Kenya

AGE 8 • ONCOLOGY



**"Socks!"** The  
socks they  
have right now  
aren't fun, and  
happier-looking  
socks would  
brighten your  
mood."

Sara

AGE 17 • GI



**"A million  
dollars** to  
pay off their  
insurance."

Samsan

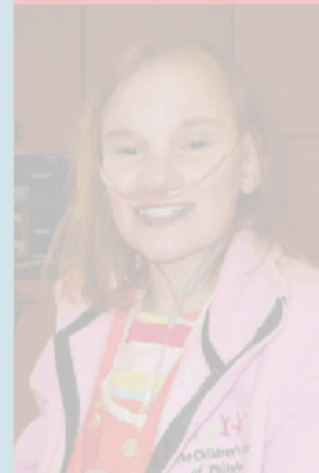
AGE 10 • GI



**"A dog,** because  
it will make  
them feel better."

Abigail

AGE 13 • CARDIOLOGY



**"A stuffed  
animal,** so  
they have  
something  
to hug."

Logan

AGE 23 MONTHS •  
CARDIOLOGY



**"A 'Mario Kart,'**  
so they will be  
able to drive."

Matthew

AGE 5 • CARDIOLOGY

# Duty to Patients

- Risks to being identified as the “high cost” provider/system
  - Aggressive utilization review
  - Placement in high-cost tier
  - Patients / families having to bear more of costs
  - Non-contracting

# Implications for Families

- Tiering can restrict access for high-needs families akin to pre-ACA policies
- Those using the exchanges are unfairly penalized for their children in determining subsidies
- Narrow networks may extend to employer-based insurance
- Instability in insurance market may lead to higher premiums and out-of-pocket costs in near-term





# Duty to Patients & Society

- As pediatricians, we care about health & well-being achieved from medical care & scientific research (*that requires funding*)...
- But also from...
  - Schools & libraries
  - Safe roads & bridges
  - Public services
  - Clean air & water



Gruber J, Schreiber N. Health Care Reform: What It Is, Why It's Necessary, How It Works, 2011.

# Stewardship

“...it is the **responsibility** of the medical profession to become **cost-conscious and decrease unnecessary care** that does not benefit patients...”





## stew·ard·ship


*noun* \ 'stü-ərd- ,ship

the conducting, supervising, or  
managing of something;  
**careful and responsible  
management of something  
entrusted to one's care**

# The Road Ahead

- **Early Payment Reform: bundled pricing, increased risk sharing**
- **Intermediate Payment Reform: more value-based purchasing and risk**
- **Long Term Payment Reform: Episode of care management and reimbursement; Global capitation?**
- **Imperatives: Reduce costs and re-engineer care models and processes to enhance value**

# The Job to Be Done



**“People don’t want a  
quarter-inch drill. They  
want a quarter-inch hole.”**

– Theodore Levitt, Harvard Business School

**Innovation is about  
getting the job done in a  
way that increases value**

# Business Model Innovation

- Emphasis on *how* we do things as much, if not more, than *what* we do, to enhance *value*



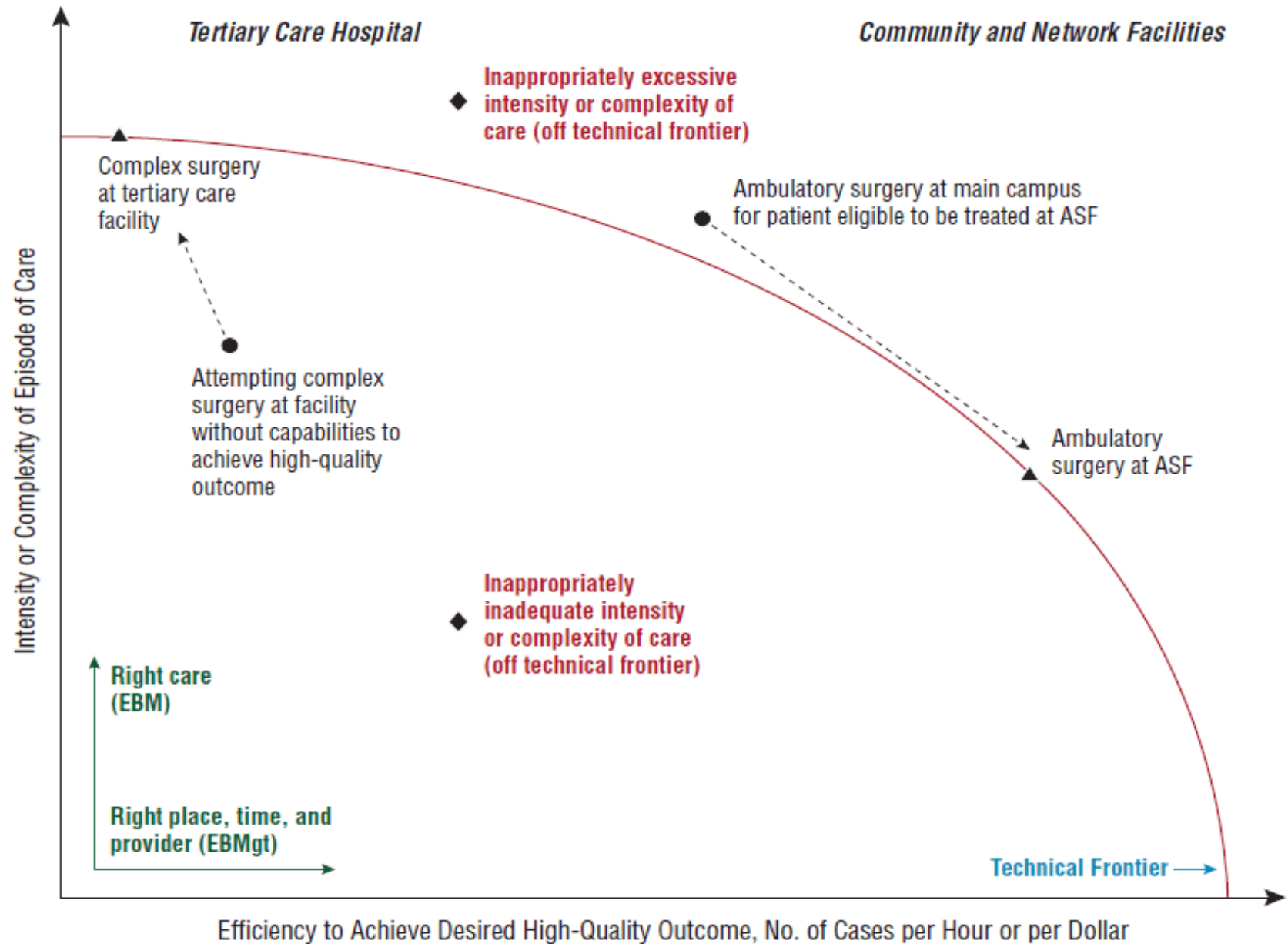
Netflix innovated on how DVDs are delivered, not the DVD itself



- Right care, right place, right time, right provider to enhance value → business model innovation

# Application of Business Model Innovation to Enhance Value in Health Care Delivery

Fieldston, Terwiesch, Altschuler  
JAMA Peds 2013





# The Job to Be Done

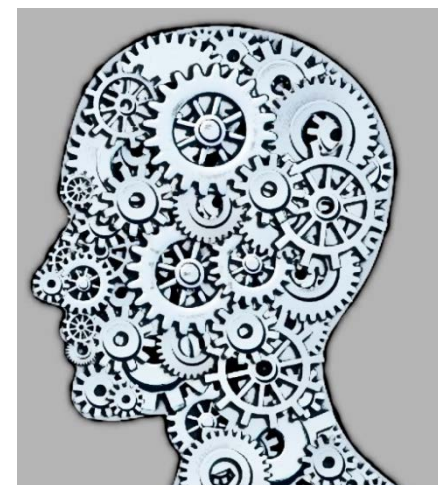
“People don’t want a quarter-inch drill. They want a quarter-inch hole.” – Theodore Levitt, Harvard Business School

What do you want? We want? Parents want?



# Innovation in Pediatric Care?

- **How** to care for patients to increase **value**? To get the job done?
- New models of care
  - Collaborative care, consultant roles
  - Role of “mid-level” clinicians
  - Medical homes
  - Practicing at top of license
- Resources follow patient demand in time and space
  - Web-based services
  - Telemedicine, tele-consultation
  - Care coordination
  - Integration in primary care, schools, community locations



# Bending Curves

- Bending the cost curve down?
- Bending the *value curve up!*

bending the curve  
bending the curve  
bending the curve



# Questions to Ask Along the Way

- How do we balance multiple dimensions of quality & value?
- How do we consider clinical uncertainty?
- How do we talk about this with families and patients?
- How to incorporate into daily practice?
- How do we balance value-based care with clinical training needs?

*bending the curve*  
*bending the curve*  
*bending the curve*

# Value in Academic Environments

## VIEWPOINT

## Teaching Value in Academic Environments Shifting the Ivory Tower

**Deborah Korenstein, MD**

American College of Physicians,  
Philadelphia,  
Pennsylvania.

**Minal Kale, MD, MPH**

Division of General Internal Medicine,  
Icahn School of Medicine at Mount Sinai,  
New York, New York.

**In the United States**, low-value care is a pervasive problem. Low-value care can be defined as care for which harms, defined in terms of resource use, financial expenditure, or patient harm, outweigh clinical benefits. Defensive medicine, fragmented care, misaligned financial incentives, and cultural factors<sup>1,2</sup> are all associated with low-value care.

The importance of improving the value of care in academic medical centers has become a topic of discussion. About value are particularly critical because of physicians' important steps to shift

### The Role of Educators

Educators have encouraged low-value care in the past and they now must play a central role in improving value. Often academic educators have emphasized completeness, focusing on the generation of exhaustive differential diagnoses with little emphasis on diagnoses for which testing should not be done. These views persist; in 2012 clinical chairs at an AMC agreed that "residents

Trainees must understand that the primary goal is optimal patient outcomes, not knowledge for its own sake.





**Opportunities & Challenges to High-value Pediatrics**





# Mindful Health Care

mind·ful

/ˈmɪndfəl/ 

*adjective*

adjective: mindful

conscious or aware of something.

"we can be more mindful of the energy we use to heat our homes"



**“we can be more mindful of the choices we make about...**

**... diagnostic testing**

**... where we deliver care**






**... what treatments we recommend**

**... how we discuss resource utilization with trainees**

**... how we engage families about their financial concerns**

**... how we design care process, clinical pathways, systems of care”**

# Achieving High-Value Care

- |  |   |   |
|--|---|---|
| 1. Understand benefits, harms, and relative costs of diagnostic and treatment options                    |    | Education, reading, refer to pathway supporting documents                   |
| 2. Decrease or eliminate diagnostic or treatment services that provide no benefits and/or may be harmful |    | Consider evidence, pathway; ask “how will this benefit my patient?”         |
| 3. Select services & care settings that maximize benefits, minimize harms, and reduce costs              |    | Consider right care, right place, right time, right provider                |
| 4. Customize care plans with patients & families, incorporating their values and concerns                |    | Talk to families about their priorities, values, concerns in creating plans |
| 5. Identify system-level opportunities to improve outcomes, minimize harm, and reduce costs & waste      |  | Work on pathways, quality improvement projects, advocate for system changes |

# Choosing Wisely

## Choosing Wisely

An initiative of the ABIM Foundation

American Academy of Pediatrics  
DEDICATED TO THE HEALTH OF ALL CHILDREN

### Five Things Physicians and Patients Should Question

#### 1 Antibiotics should not be used for apparent viral respiratory illnesses (sinusitis, pharyngitis, bronchitis).

Although overall antibiotic prescription rates for children have fallen, they still remain alarmingly high. Unnecessary medication use for viral respiratory illnesses can lead to antibiotic resistance and contributes to higher health care costs and the risks of adverse events.

#### 2 Cough and cold medicines should not be prescribed or recommended for respiratory illnesses in children under four years of age.

Research has shown these products offer little benefit to young children and can have potentially serious side effects. Many cough and cold products for children have more than one ingredient, increasing the chance of accidental overdose if combined with another product.

#### 3 Computed tomography (CT) scans are not necessary in the immediate evaluation of minor head injuries; clinical observation/Pediatric Emergency Care Applied Research Network (PECARN) criteria should be used to determine whether imaging is indicated.

Minor head injuries occur commonly in children and adolescents. Approximately 50% of children who visit hospital emergency departments with a head injury are given a CT scan, many of which may be unnecessary. Unnecessary exposure to x-rays poses considerable danger to children including increasing the lifetime risk of cancer because a child's brain tissue is more sensitive to ionizing radiation. Unnecessary CT scans impose undue costs to the health care system. Clinical observation prior to CT decision-making for children with minor head injuries is an effective approach.

#### 4 Neuroimaging (CT, MRI) is not necessary in a child with simple febrile seizure.

CT scanning is associated with radiation exposure that may escalate future cancer risk. MRI also is associated with risks from required sedation and high cost. The literature does not support the use of skull films in the evaluation of a child with a febrile seizure. Clinicians evaluating infants or young children after a simple febrile seizure should direct their attention toward identifying the cause of the child's fever.

#### 5 Computed tomography (CT) scans are not necessary in the routine evaluation of abdominal pain.

Utilization of CT imaging in the emergency department evaluation of children with abdominal pain is increasing. The increased lifetime risk for cancer due to excess radiation exposure is of special concern given the acute sensitivity of children's organs. There also is the potential for radiation overdose with inappropriate CT protocols.

## Choosing Wisely

An initiative of the ABIM Foundation

Society of Hospital Medicine – Pediatric Hospital Medicine

shm  
Society of Hospital Medicine

### Five Things Physicians and Patients Should Question

#### 1 Don't order chest radiographs in children with uncomplicated asthma or bronchiolitis.

National guidelines advocate a reliance on physical examination and patient history for diagnosis of asthma and bronchiolitis in the pediatric population. Multiple studies have established limited clinical utility of chest radiographs for patients with asthma or bronchiolitis. Because of the use of chest radiography, self-referral costs, and unnecessary diagnostic testing and tests.

#### 2 Don't routinely use bronchodilators in children with bronchiolitis.

Pediatric guidelines do not advocate the routine use of bronchodilators in patients with bronchiolitis. Comparative reviews of the literature have demonstrated that the use of bronchodilators in children with bronchiolitis has no effect on any important outcomes. There is limited documentation of clear impact of bronchodilator therapy upon the course of disease. Additionally, providers should consider the potential impact of adverse events upon the patient.

#### 3 Don't use systemic corticosteroids in children under 2 years of age with an uncomplicated lower respiratory tract infection.

Pediatric guidelines recommend that corticosteroid medications not be used routinely in the management of bronchiolitis. Furthermore, additional studies in patients with other, but lower respiratory tract infections have failed to demonstrate any benefit.

#### 4 Don't treat gastroesophageal reflux in infants routinely with acid suppression therapy.

Acid reflux therapy has been demonstrated to have no effect in reducing the symptoms of gastroesophageal reflux disease (GERD) in children. Concerns regarding the use of proton pump inhibitor therapy in infants include an inability to definitively diagnose pediatric patients, according to the established criteria of GERD, lack of documented efficacy of acid suppression therapy in infants and the potential adverse effects associated with acid suppression therapy.

#### 5 Don't use continuous pulse oximetry routinely in children with acute respiratory illness unless they are on supplemental oxygen.

The utility of continuous pulse oximetry in pediatric patients with acute respiratory illness is not well established. Use of continuous pulse oximetry has been previously associated with increased admission rates and increased length of stay. The clinical benefit of pulse oximetry is not defined or well documented.

## Choosing Wisely

An initiative of the ABIM Foundation

American College of Rheumatology – Pediatric Rheumatology

AMERICAN COLLEGE  
OF RHEUMATOLOGY  
EDUCATION • TREATMENT • RESEARCH

### Five Things Physicians and Patients Should Question

#### 1 Don't order autoantibody panels unless positive antinuclear antibodies (ANA) and evidence of rheumatic disease.

Up to 80% of children develop musculoskeletal pain. There is no evidence that autoantibody panel testing in the absence of history or physical exam evidence of a rheumatic disease enhances the diagnostic yield of children with isolated musculoskeletal pain. Autoantibody panels are expensive; evidence has demonstrated cost reduction by limiting autoantibody panel testing. Thus, autoantibody panels should be ordered following confirmed ANA positivity or clinical suspicion that a rheumatic disease is present in the child.

#### 2 Don't test for Lyme disease as a cause of musculoskeletal symptoms without an exposure history and appropriate exam findings.

The musculoskeletal manifestations of Lyme disease include brief attacks of arthralgia or intermittent or persistent episodes of arthritis in one or a few large joints at a time, especially the knee. Lyme testing in the absence of these features increases the likelihood of false positive results and may lead to unnecessary follow-up and therapy. Other arthralgias, myalgias or fibromyalgia alone are not criteria for musculoskeletal Lyme disease.

#### 3 Don't routinely perform surveillance joint radiographs to monitor juvenile idiopathic arthritis (JIA) disease activity.

There are no available data to suggest that routinely obtaining surveillance joint radiographs to monitor for the development or progression of erosive changes in children with juvenile idiopathic arthritis (JIA) improves outcomes. Radiation exposure and cost are potential risks. In the absence of data to support their benefit, radiographs should be obtained by the pediatric rheumatologist only when history and physical exam raise clinical concerns about joint damage or decline in function.

#### 4 Don't perform methotrexate toxicity labs more often than every 12 weeks on stable doses.

Laboratory abnormalities in JIA patients taking methotrexate are usually mild and easily prompt adjustment in management. Screening low-risk children every 1-2 months may lead to unnecessary interruptions in treatment. More frequent monitoring may be required in the first six months after methotrexate initiation or dose escalation and in patients with risk factors for toxicity including obesity, diabetes, renal disease, proteinuria, systemic JIA, Down syndrome and use of alcohol or other hepatotoxic or myelosuppressive medications.

#### 5 Don't repeat a confirmed positive ANA in patients with established JIA or systemic lupus erythematosus (SLE).

ANA is important in the diagnosis of SLE and positivity guides more frequent clinical examination for detection of events in children with JIA. Beyond this, there is no evidence that ANA is valuable in the ongoing management of SLE or JIA. It is recommended that following diagnosis of SLE or JIA, ANA should not be repeated unless a child with JIA has evolution of symptoms suggestive of a new or more consecutive time disease.

<http://www.choosingwisely.org/doctor-patient-lists/>

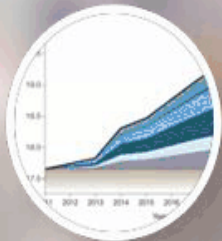
# Raising Knowledge

STRIVING FOR VALUE IN PEDIATRICS

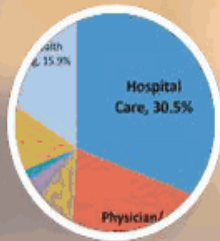
RESOURCES | EXIT

STRIVING FOR VALUE IN PEDIATRICS

 The Children's Hospital of Philadelphia® | Hope lives here.®



Health Care  
Value: The Big  
Picture



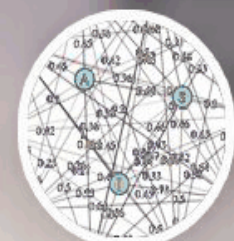
Health Care  
Costs: It's Not  
that Simple



Health Insurance  
Primer: Past, Present,  
Future



Balancing Benefit, Harm and  
Costs: Rational Care, Safely  
Doing Less, Less is More?



Effective Decision-making:  
Biostatistics at Your  
Service



High-value Diagnosis: To  
Know or Not to Know



High-value Prescribing:  
Treating at the Right Price



Screening & Prevention:  
Achieving High-Value  
Prevention



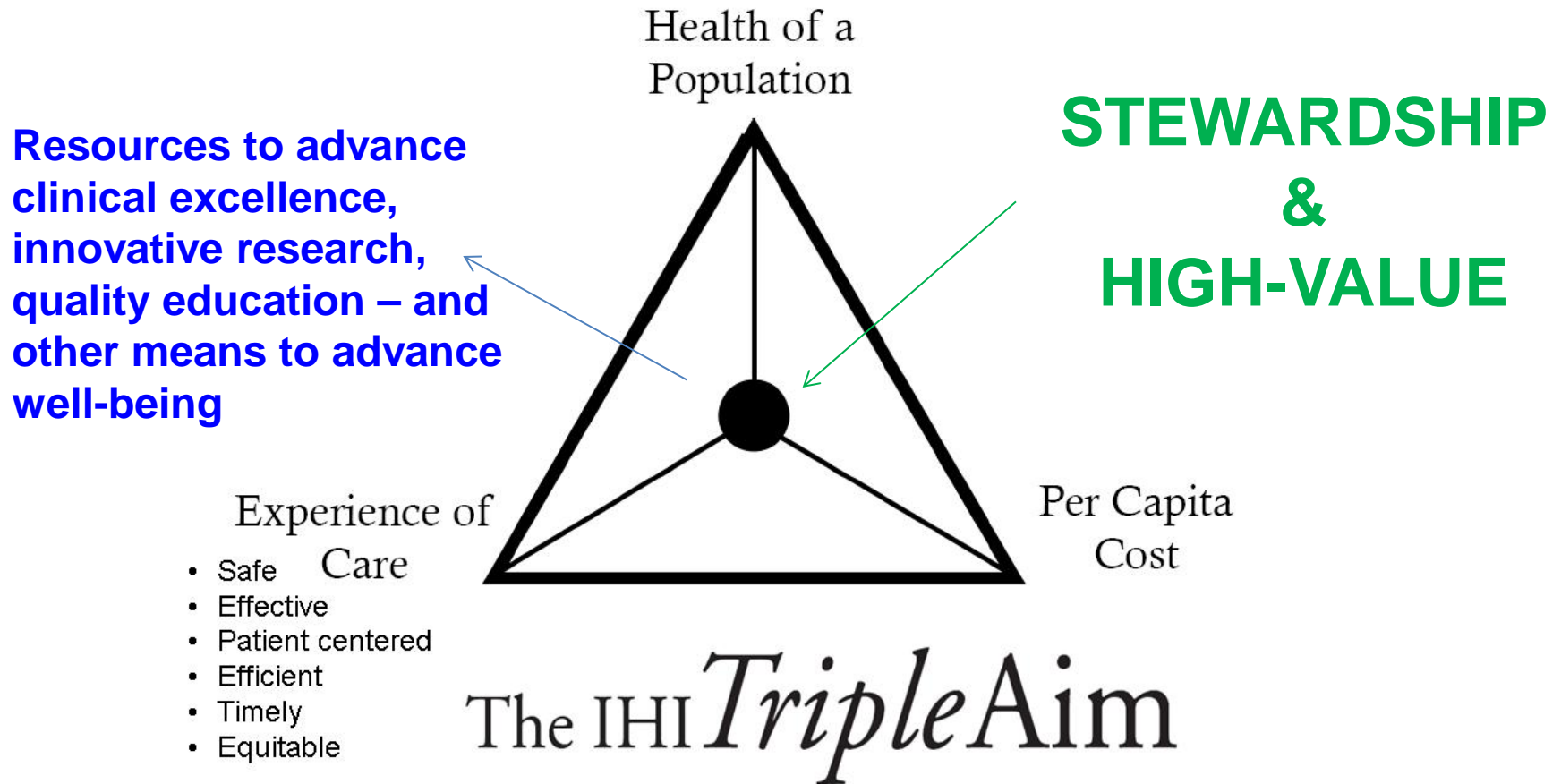
Overcoming Barriers & Next  
Steps: Now It's Your Turn

HOPE  
RELIES  
ON YOU  
CAREER

Session 1 | Session 2 | Session 3 | Session 4 | Session 5 | Session 6 | Session 7 | Session 8 | Session 9



# Summary



*Better care for individuals, better health for populations, lower per capita costs*

# Summary

- The move toward value-based health care is driven by unsustainable growth in the cost of health care and sense of low- or variable-quality care.
- Numerous opportunities exists to improve quality, reduce variation, and have a more mindful approach to resource utilization.
- As stewards, we need to ***bend the value curve up*** by leading simultaneously on quality and cost improvements.

