The value expression



Frank Opelka, MD FACS

Medical Director

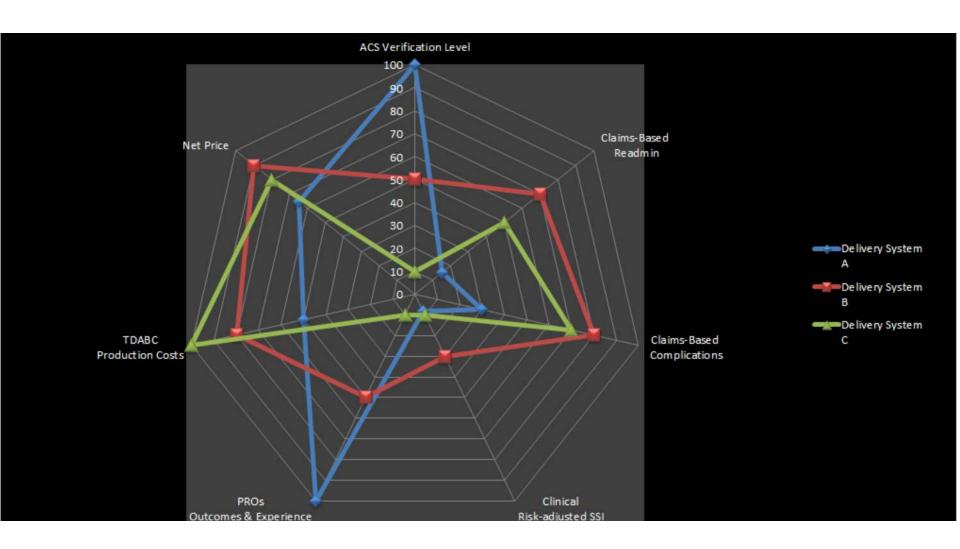
Quality and Health Policy

American College of Surgeons



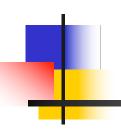


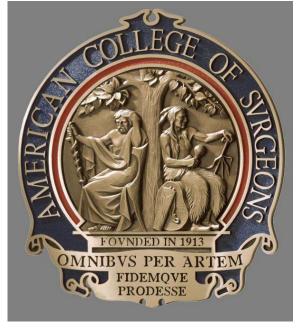
A Value Expression (Mock-up)



T.H.R.I.V.E.

Transforming Healthcare Results by Investing in Value & Excellence







INSTITUTE FOR STRATEGY & COMPETITIVENESS

A collaborative to promote solutions For value-based healthcare



INSTITUTE FOR STRATEGY & COMPETITIVENESS

Key Concepts

THERE ARE SIX MAJOR ELEMENTS THAT ARE NECESSARY IN A TRULY VALUE-BASED SYSTEM

- Organize Care Around Medical Conditions →

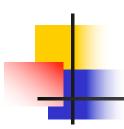
 Care delivery is organized around patients' medical conditions. In primary care, it is structured around, population segments with differing primary care needs, such as healthy adults.
 - around population segments with differing primary care needs, such as healthy adults, patients with chronic illnesses, and lower income elderly.
- Measure Outcomes & Cost for Every Patient →
 Outcomes and cost are measured for every patient.
- Aligning Reimbursement with Value →

 Reimbursement models that reward both better outcomes and efficiency of care, such as bundled payments.
- Systems Integration →

 Regional delivery of care organized around matching the correct provider, treatment, and setting.
- Geography of Care →

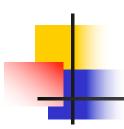
 National centers of excellence providing care for exceedingly complex patients.
- Information Technology →

 An information technology system designed to support the major elements of the agenda.



Transformation to Bundles Building the infrastructure

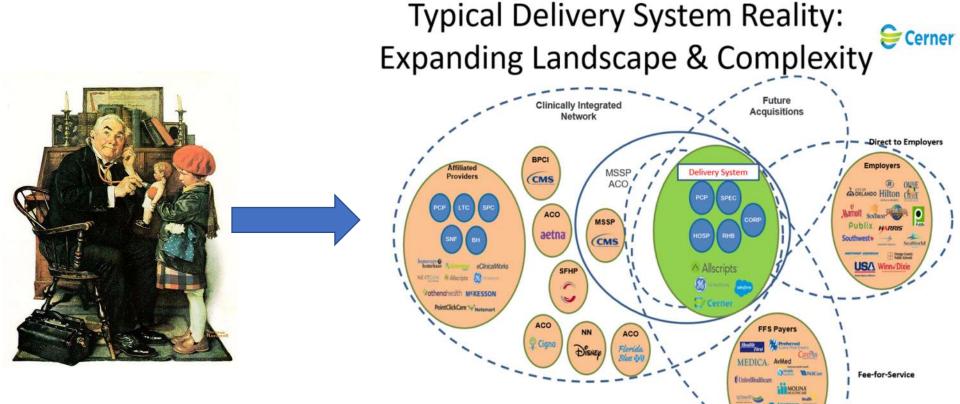
- Care model— built on well structured teams, not fragmented fee for service cobbled loosely together
- Business model resources as one unit with the right staff, equipment, site of service
- Payment model price based on cost from data driven production costs to deliver the care & move retrospective to prospective payment
- Compensation model aligned around patient outcomes, not RVUs
- Data model dashboards to inform team, patients and payers for quality, efficiency and cost



Transformation to Bundles Building the infrastructure

- Care model— Modern day care pathway redesigns for a team and structured around the ACS Redbook with Redbook verification surveys
- Business model Commitment from the C-suite and management to support the optimal care model and data infrastructure
- Payment model Bundled pricing with two-sided, asymmetric risk
- Compensation model Share accountability for patient outcomes drive more than minimal compensation (30-50%)
- Data model Registries, patient-clouds with interoperability solutions, episode-based dashboards with supporting knowledge artifacts

Medicine once a cottage industry has become a complex enterprise.



Current State:

Care becomes
fragmented with
multiple clinicians and
different Tax IDs
(businesses) providing
distinct services,
without coordination,
across the care
continuum.



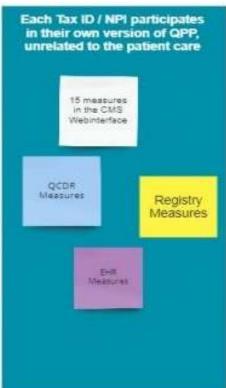
The Result:

Care models often
lack an organized
team surrounding
a patient as an
integrated
practice unit or
episode.

Current State

Each clinical entity
has their own
means for
reporting quality
metrics, often
unrelated to the
patient
undergoing care.





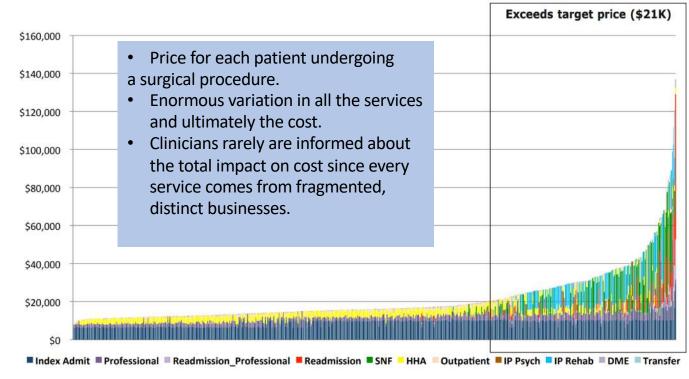
The Result:

The metrics
cannot be
aggregated to
inform patients or
clinicians about
the quality or cost
of care for a
patient.



A Mystery

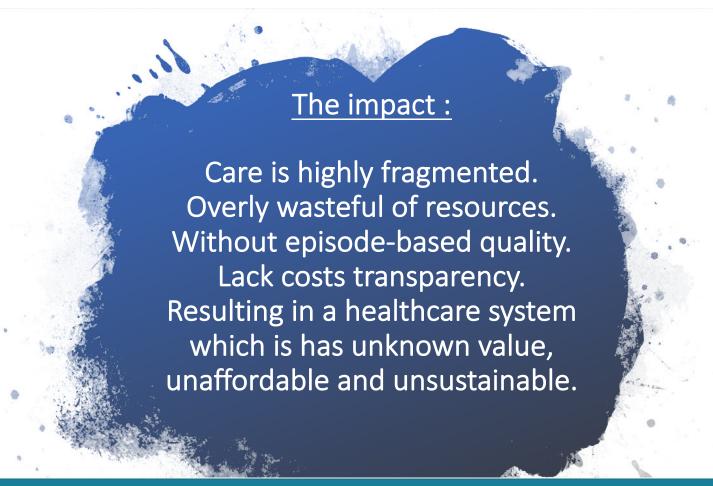
Understanding cost of care for the services a patient consumes are a mystery for patients and for clinicians.

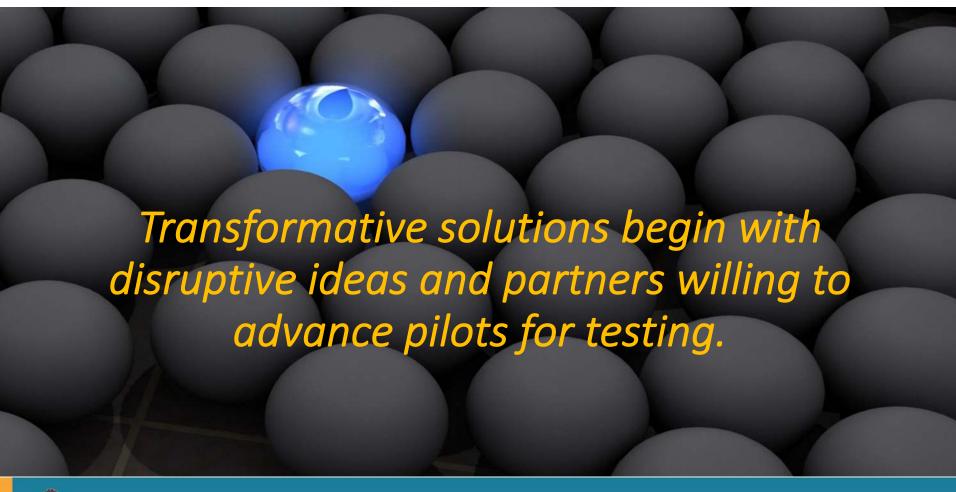


Current State

Do patients know where to find high quality, optimal & affordable care?







ACS: 100+ Years of Value Improvement



Minimum Standard for Hospitals



























Four Guiding Principles of Continuous Quality Improvement

1. Standards

- Individualized by patient
- Backed by research

3. Rigorous Data

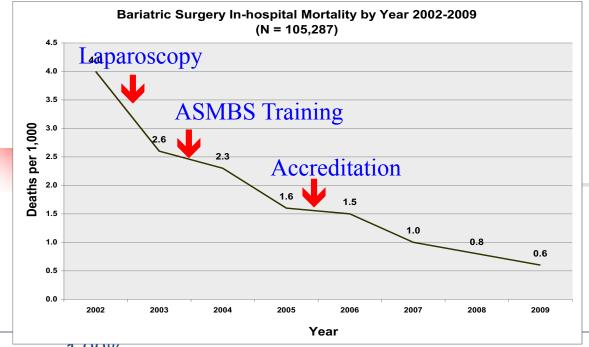
- From medical charts
- Backed by research
- Post-discharge tracking
- Continuously updated

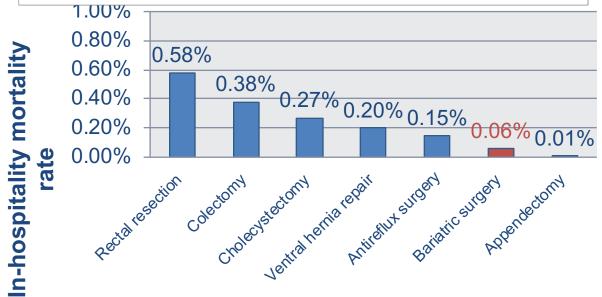
2. Right Infrastructure

- Staffing levels
- Specialists
- Equipment
- Checklists

4. Verification

- External peer-review
- Creates public assurance



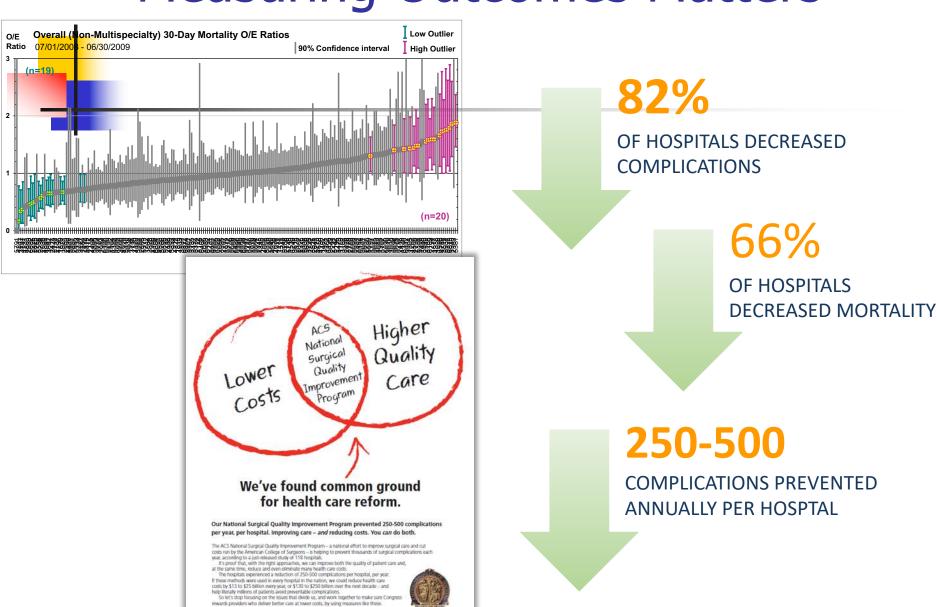


General surgical operations, 2008-2012





Measuring Outcomes Matters



Learn more about the ACS NSQIP program at acsquality.org

Collaboration Improves Care











Optimal Resources for

nspiring Quality:

Surgical Quality and Safety

Surgical Quality and Safety Accreditation/Verification Programs

Clinical **Database**





Other Databases





DISEASE-SPECIFIC PROGRAMS

















POPULATION-SPECIFIC PROGRAMS





THE Coalition for Quality in Geriatric Surgery PROJECT

EMERGING PROGRAMS

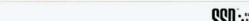


PHASES OF CARE PROGRAMS





CARE and RECOVERY







- Commitment
- 2. Program Scope and Governance
- 3. Facilities and Equipment Resources
- **Personnel and Services Resources**
- 5. Patient Care: Expectations and **Protocols**
- 6. Data Systems and Surveillance
- **Quality Improvement**
- **Research: Basic and Clinical Trials**
- **Education: Professional and Community Outreach**



Solving the Health Care Problem

 The fundamental goal and purpose of health care is to create value for patients

Value = Health outcomes that matter to patients

Costs of delivering these outcomes

- Value is the only goal that aligns the interests of all system participants
- Improving value for patients is the only real solution



 The question is how to re-design the health care delivery system to deliver substantially better outcomes to patients at lower cost to society.

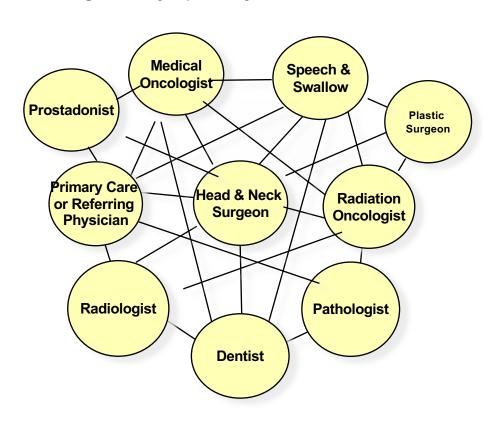
Shift to Value

Legacy System Value Based Agenda Organized around departments Organize into Integrated **Integrated Care** and specialty service lines Practice Units (IPUs) Measure top down process Measure Outcomes and Cost by Measurement of what compliance and charges matters to patients condition Fee-for-Service payments based Pay with Value Based Bundles Pay for Value on volume only for a condition Each hospital or practice offers **Integrated Care Delivery Systems** Integrated Delivery a full line of services (the right care at the right place) Systems Providers limited to serving their Expand geographic reach 5. Geographic strategy immediate geographic area Siloed IT systems for functions **Build Integrated IT platform** 6. Information Technology & departments built for billing organized around clinical needs

Organize Care Around Medical Conditions

Head & Neck Cancer Care at MD Anderson

Historical Model: Organize by Specialty and Discrete Service



Source: Porter, Michael E., Jain, Sachin, The University of Texas MD Anderson Cancer Center: Interdisciplinary Cancer Care. February 26, 2013.

IPU-Focused Model: Organize around Condition

Head & Neck Center

MDs

Medical Oncologist Surgical Oncologist **Radiation Oncologist** Radiologist

Dentist



Specialized Staff

Nutritionist

Nurse **Psychologist** Social Worker Patient Advocate Speech Pathologist

Facilities

Outpatient Clinic Swallowing Lab Hearing Lab Prosthodontic Lab Voice Lab Radiology Reading Room

Shared Facilities

Pharmacy Pathology Lab **Operating Rooms** Chemotherapy **Radiation Therapy Diagnostic Imaging**

Shared Specialties

Pathologist Plastic Surgeon Neurosurgeon Cardiologist **Endocrinologist**

Expanding the Role of Surgeons Thinking Beyond the Operating Room

Prevention & Detection	Medical Management	Preoperative Care	Surgical Intervention	Postoperative Care	Rehabilitation	Surveillance
Work with primary care to prevent progression of disease Advise primary care on accurate diagnoses and timely referral	 Partner with medical specialists to manage complex cases and the ongoing evaluation of need for surgery Develop nonsurgical options with other providers if appropriate 	Collaborate with primary care, anesthesia, etc. to prepare patient for successful surgery Be accessible to primary care team for pre-operative care questions	Optimize the surgical process	Co-develop best practices with post-operative teams Ensure seamless transition to post op care	Shift post-acute care to appropriate settings (e.g. home) Extended clinic hours and after-hours hotline Educate home health team and PT on best practices	Ongoing monitoring of patients for recurrence Measure longer term outcomes

Clarifying the Term "Quality" Addressing the Semantics Challenge

Framework from outside health care

Two Definitions of Quality

1. Hitting Specifications

"Defect-Free" Care

i.e. Toyota

Production System

Conformance Quality

2. Superior Performance

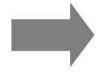
High end finishes

Driver Experience

Performance attributes

i.e. BMW

Mercedes



Performance Quality

Quality Measurement Landscape Condition Specific

Structural Measures

- Facility
 - i.e. Imaging equipment, EMR
- Personnel
 - i.e. Availability of 24 hr ACS team
- Organizational Capabilities
 - i.e. Existence of measurement system

Process Metrics

- Measures of Compliance to Evidence Based Pathways
 - · i.e. Screening



Conformance Quality

- Safety
- Adverse Events
- Revisions
- Readmissions

Outcomes Performance

- PROMS
- Clinical Outcomes

(+/- clinical indicators i.e. HbA1C)

 Patient Satisfaction

What Matters to Patients

Risk Adjustment

Registry Data

THRIVE: Project Proposal Overview

Project Description

Implement comparable outcome and cost measurement sets in select conditions at leading providers throughout the U.S. and create risk adjusted benchmarks to generate systems improvement and recognize high value providers

Conditions

- 3 Surgical Conditions
- Full cycle of care (including key surgical, medical, behavioral and social elements of care)

Sites

- 10-15 Sites per condition
- Leading Centers of Excellence across the U.S.

Measurement

- Learn how to measure both outcomes and cost at the condition level
- Create playbook for implementation
- Develop scalable approach for risk adjusted benchmarking and systems improvement

How should we define QUALITY?

Quality should be defined as:

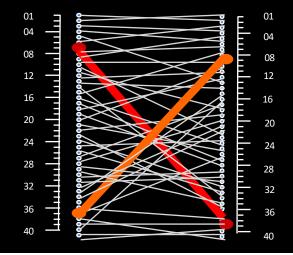
Care and Outcomes that matter to the patient

Metrics for Quality

- Patient reported outcomes (e.g. symptoms, function, pain)
- Patient experience (e.g. shared decision making)
- Complications (e.g. infection)
- Others...

Risk Adjustment is essential...

Hospital Rank by unadjusted
Outcomes



Hospital Rank by risk-adjusted Outcomes

Improving American College of Surgeons National Surgical Quality Improvement Program Risk Adjustment: Incorporation of a Novel Procedure Risk Score

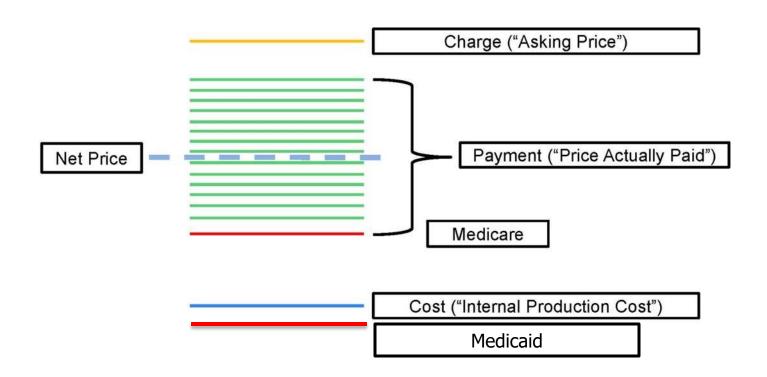
Mehul V Raval, MD, MS, Mark E Cohen, PhD, Angela M Ingraham, MD, MS, Justin B Dimick, MD, MPH, FACS, Nicholas H Osborne, MD, MS, Barton H Hamilton, PhD, Clifford Y KO, MD, MS, MSHS, FACS, Bruce L Hall, MD, PhD, MBA, FACS

Defining Cost





Denominator: Clarifying Cost & Price



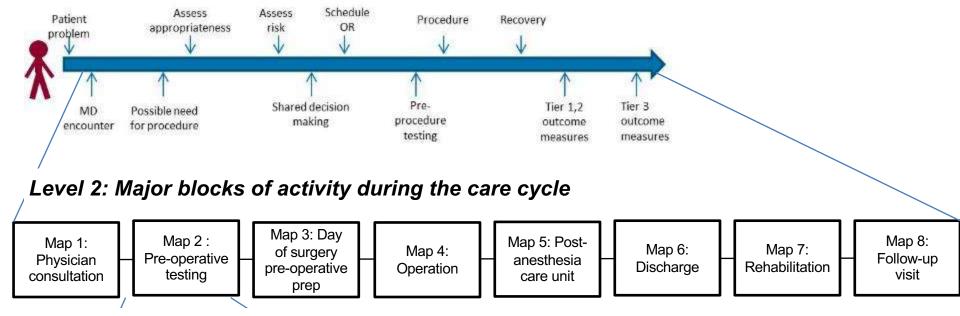
Time-Driven Activity-Based Costing (TDABC)

Determine the Care Process

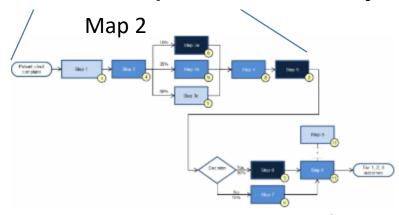
- What activities are performed over the care cycle for a medical condition?
- Who performs each activity?
- **How long** does each activity take?
- Calculate Cost Rates
- What is the cost per unit of time for each type of personnel and equipment?
- Account for Consumables
- What materials, supplies, and drugs are consumed during the care cycle?

Measuring Costs Correctly Develop process maps for the care cycle

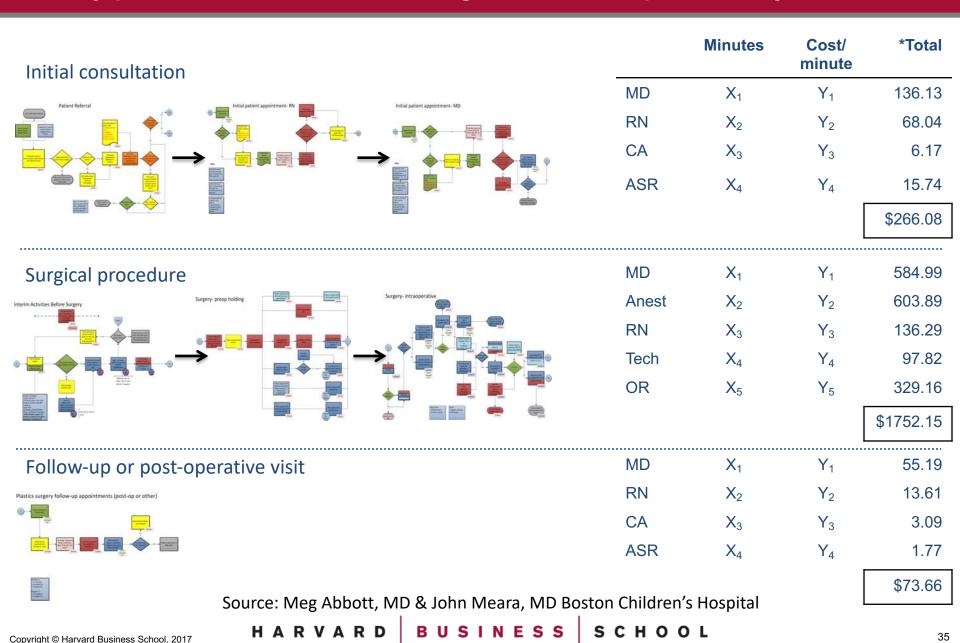
Level 1: Overall care cycle



Level 3: Process maps for studied care cycle



We compute total patient-level care costs by multiplying capacity cost rates by process times and summing across each patient's cycle of care



How does TDABC help providers manage their costs

Process Improvement and Redesign



- Eliminate process steps and variations that do not contribute to improved patient outcomes
- Redesign processes to reduce waste and idle time
- Optimize processes and interventions over a complete cycle of care
 - All clinicians work at the "top-of-their license"



 Understand costs over the full care cycle to prepare for bundled payment contracts

A Value-Based Bundle Payment, ideally, should have the following three components.

1. A single, risk-adjusted payment that covers **all the care** required to treat a **patient's medical condition**



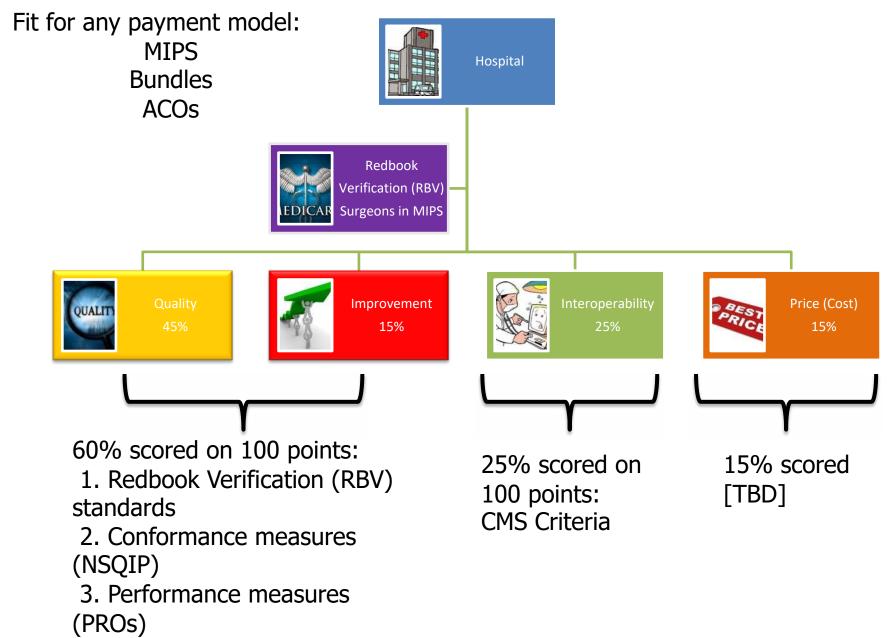
- 2. Contingent on achieving good condition-specific outcomes
- and a price that provides a fair margin for delivering effective and efficient care
 - Provider is at risk for difference between bundled price and actual cost of all included services required to treat the condition



THRIVE

A value expression for any payment program







QUALITY

Quality 45%

Improvement 15%

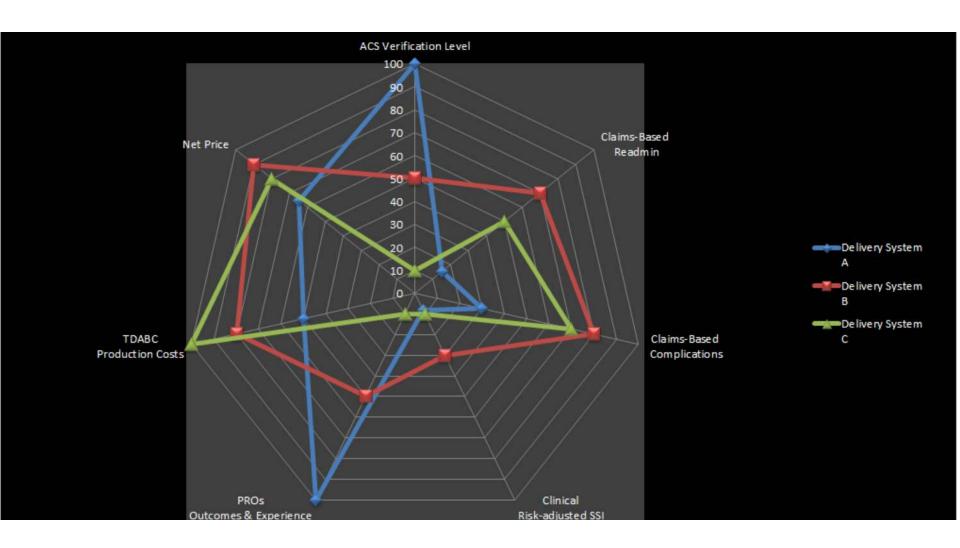
60% scored on 100 points using Verification standards which include Participation in Conformance measures (NSQIP or Claims) and in Performance measures (PROs)

To score the full 60% based on 100 points: **Redbook Verification Standards**:

Domains in Redbook Verification	Points
1. Leadership Commitment	
2. Culture of Safety & High Reliability	25
3. Surgical Quality Officer	
4. Surgical Quality Committee	-
5. Team processes in Five Phases of Surgical Care	25
6. Disease Based Management	
7. Data collection and surveillance in surgical domain	25
8. Data-driven quality improvement in surgical domain	
9. Case Review	
10. Peer Review	25
11. Credentialing & Privileging	
12. Compliance with regulatory performance metrics	



A Value Expression (Mock-up)



We can teach health care providers HOW to provide high quality care







Value-Based Healthcare

This is a story of taking <u>better care</u> of our <u>patients</u> and communities in a <u>more sustainable</u> way...

Thank you!