



Creating a Value-
Driven
Organization

@vivianleemd

#AAMC13

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Senior Vice President, University of Utah Health Sciences
CEO, University of Utah Health Care
Dean, University of Utah School of Medicine



UNIVERSITY OF UTAH
HEALTH SCIENCES

University of Utah Health Sciences

Who we are

4

HOSPITALS

10

COMMUNITY
CLINICS

1,200

PHYSICIANS

1,000,000+
patient visits

COLLEGES

*School of Medicine
College of Nursing
College of Pharmacy
School of Dentistry
College of Health*



\$230.3m

FUNDED 637
RESEARCH
GRANTS

\$2.4b

ANNUAL BUDGET



University
Neuropsychiatric Institute



Huntsman Cancer
Institute



John A. Moran
Eye Center



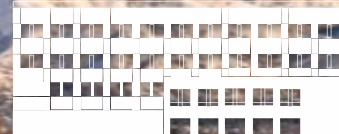
Primary Children's
Hospital (IMC)



University of Utah Hospital



University
Orthopaedic Center

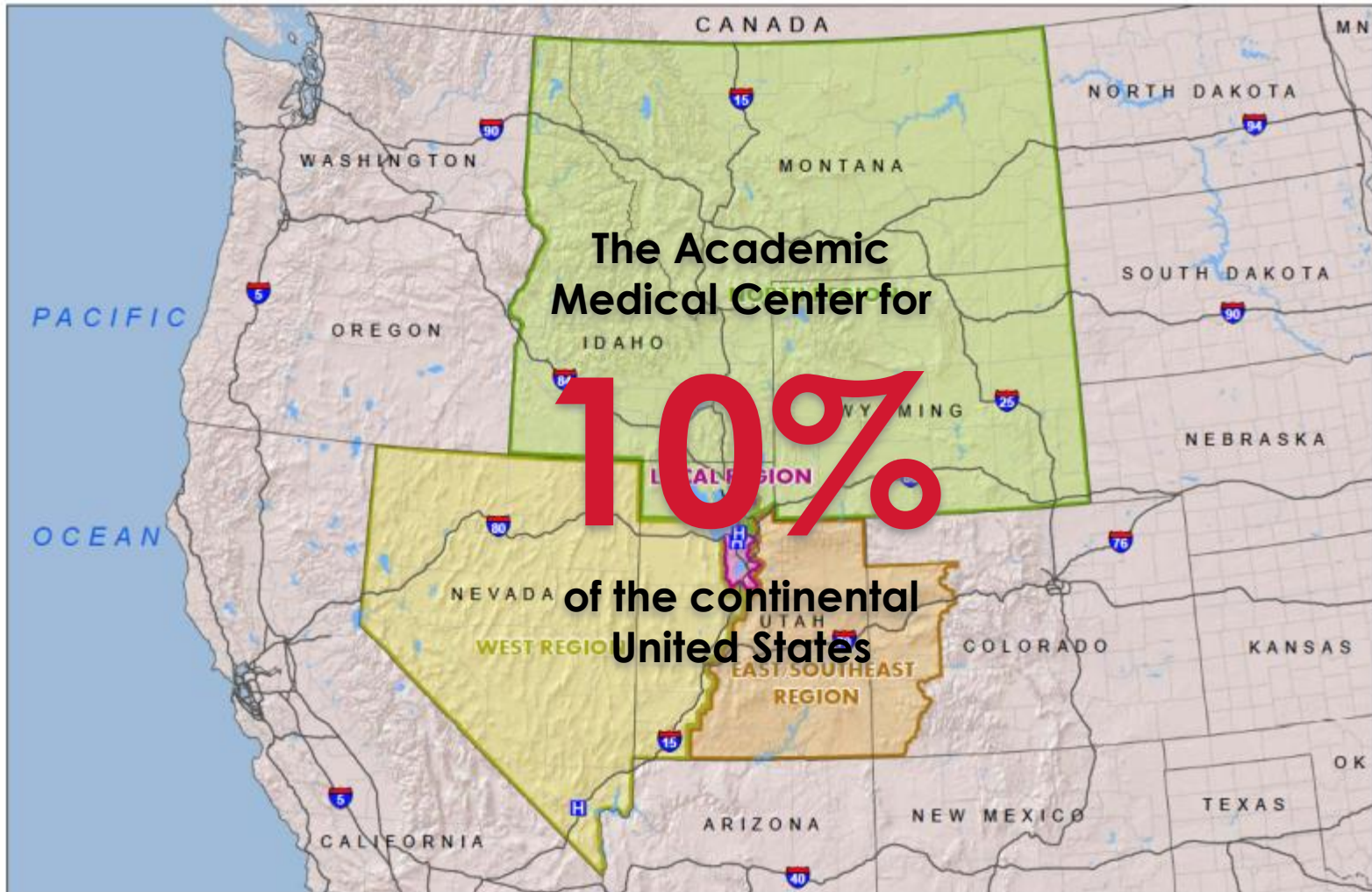


Clinical Neurosciences
Center



South Jordan Health
Center

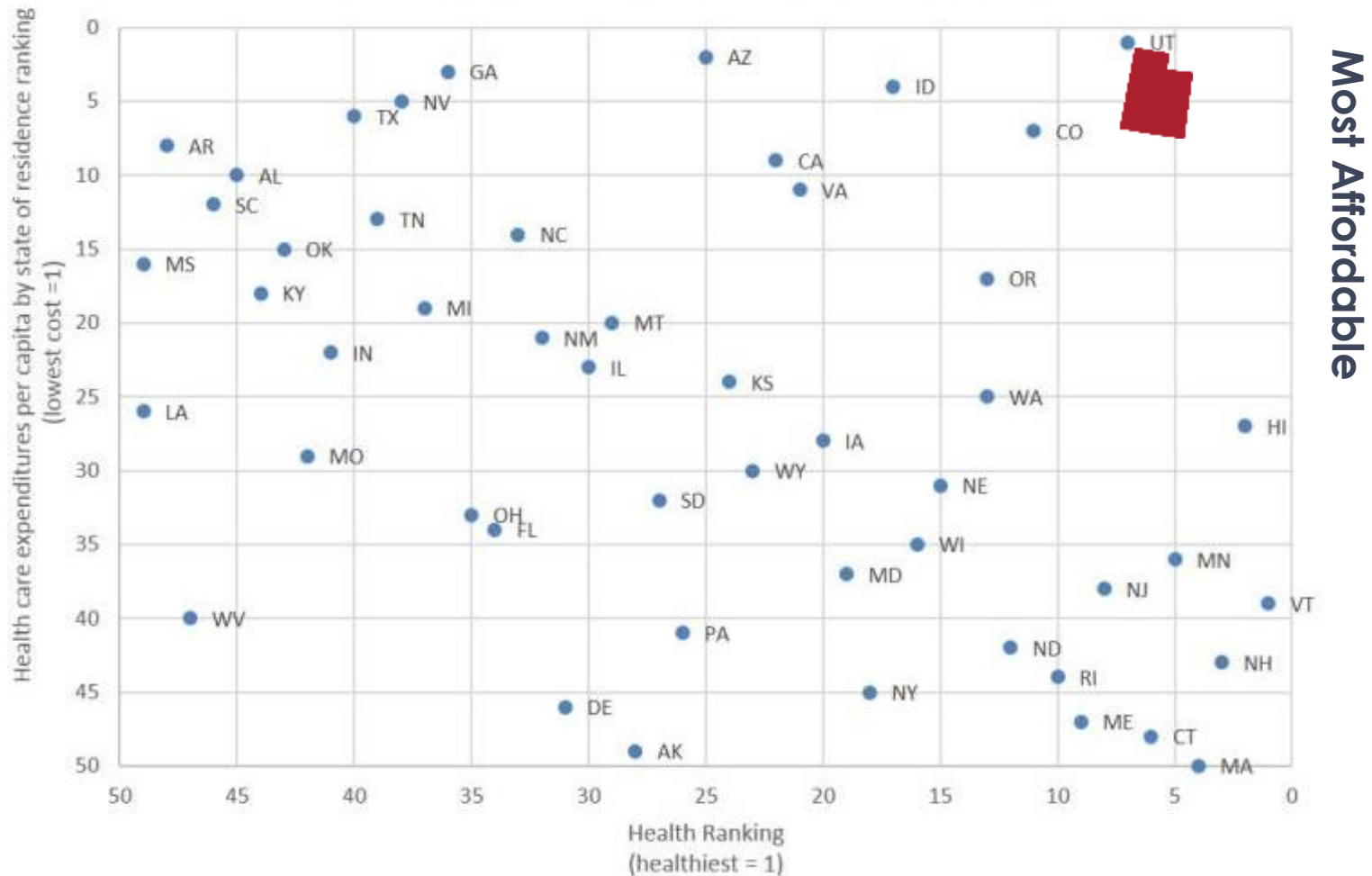
Who We Serve



The Sweet Spot

State Rankings of Healthiness v. Cost 2012


Best Health



United Health Foundation, 2013; Total Health Cost – Kaiser Family Foundation, 2009

University of Utah Health Sciences

Rankings



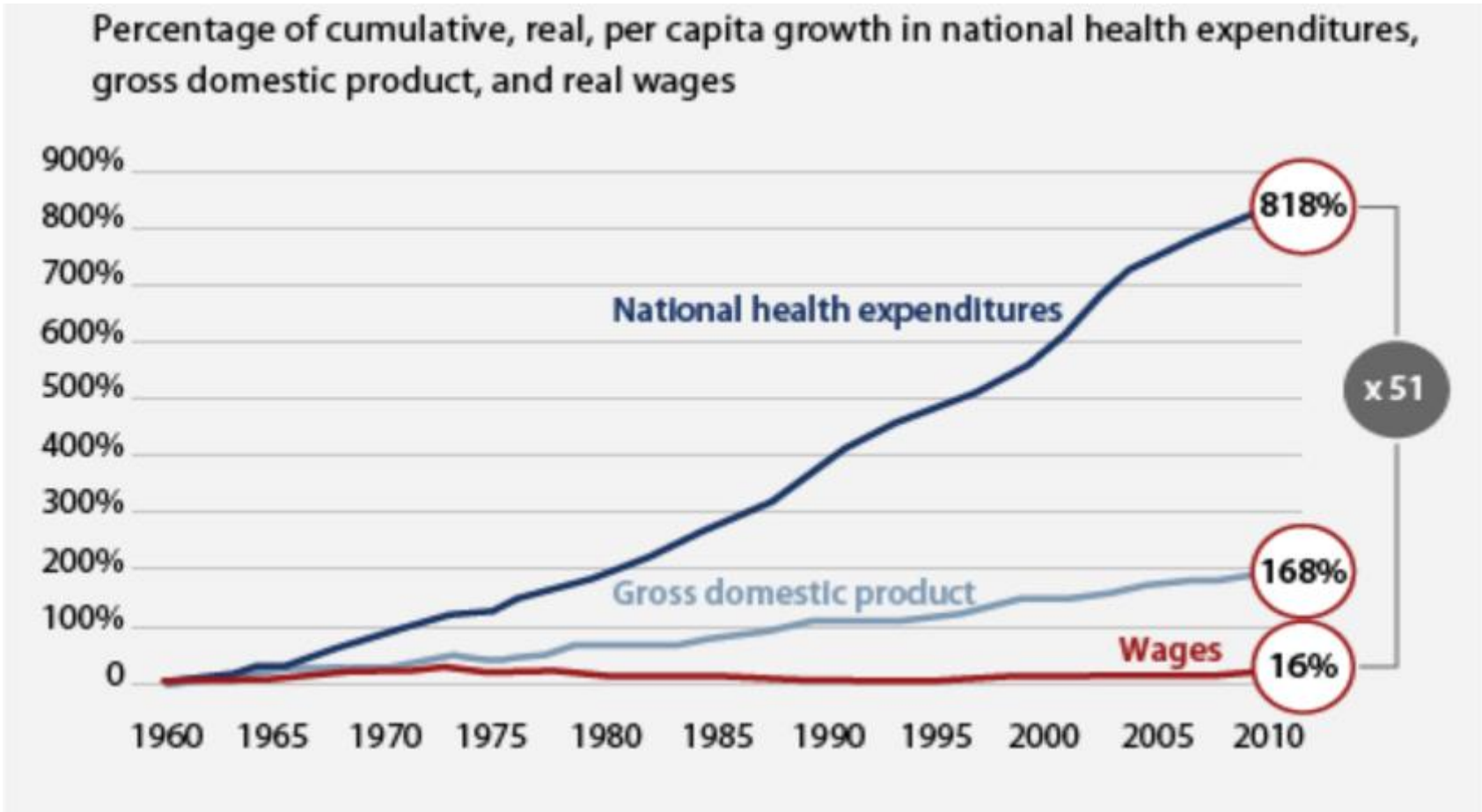
In 2010, **University HealthSystem Consortium**—an alliance of 107 academic medical centers—named us...

**#1 IN QUALITY
IN THE NATION**

Among academic medical centers ranked by the University HealthSystem Consortium 2010

2013 - Top Ten 4 Years Running!

The Cost Curve



McKinsey, "Accounting for the cost of U.S. Health Care" 2011

A Value-Driven Organization

The “Value” Equation

$$\begin{array}{c} \mathbf{V} \\ \text{(VALUE)} \end{array} = \frac{\begin{array}{c} \mathbf{Q} \\ \text{(QUALITY)} \end{array} + \begin{array}{c} \mathbf{S} \\ \text{(SERVICE)} \end{array}}{\begin{array}{c} \mathbf{\$} \\ \text{(COST)} \end{array}}$$

*CASE STUDY:
TIPATIENT™
SATISFACTION*

TESTING OUR ALGORITHM

How Do We Transform The System?

COMMUNICATE
THE
need for
CHANGE

develop
YOUR
teams

establish METRICS

ENGAGE
physicians
staff
and
trainees

NURTURE
a culture of
continuous
INNOVATION

Identify and Communicate **SOLVABLE PROBLEMS**



Topics: Patient Care & Outcomes

Poor patient satisfaction: The easiest thing to fix

University of Utah Health Care post unfiltered patient comments online

December 19, 2012 | By Karen Cheung-Larivee

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Team **COLLABORATION**



Tom Miller, M.D.
Chief Medical
Officer



Brian Gresh
Senior Director of
Interactive
Marketing and
Web



Chrissy Daniels
Director of
Strategic
Initiatives

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How We MEASURE SATISFACTION

CARE PROVIDER	Very Poor 1	Poor 2	Fair 3	Good 4	Very Good 5
During your visit, your care was provided primarily by a doctor, physician assistant (pa), nurse practitioner (np), or midwife. Please answer the following questions with that health care provider in mind.					
1) Friendliness/courtesy of the care provider	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2) Explanations the care provider gave you about your problem or condition	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3) Concern the care provider showed for your questions or worries	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4) Care provider's efforts to include you in decisions about your treatment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5) Information the care provider gave you about medications (if any)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6) Instructions the care provider gave you about follow-up care (if any)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7) Degree to which care provider talked with you using words you could understand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8) Amount of time the care provider spent with you	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9) Your confidence in this care provider	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10) Likelihood of your recommending this care provider to others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11) Comments (describe good or bad experience):	<input type="text"/>				



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How We DEFINE METRICS

FY14 Patient Satisfaction Scorecard - Entity Composite



**Current QTD: 10/01/13 - 11/13/13 All scores based on RECEIVED DATE

	Executive	Medical Director	FY12 %tile	FY13 %tile	FY14%tile GOAL	Q1 FY14 %tile	Oct '13 %tile	Current QTD %tile	Current QTD n
Overall	David Entwistle	Sean Mulvihill, MD	65	71	80	72	71	76	4448
UH - 55%	Quinn McKenna	Tom Miller, MD	59	63	79	64	62	63	2861
Inpatient (60%) Recommend-HCAHPS	Quinn McKenna	Tom Miller, MD	68	63	80	63	54	53	435
Outpatient (30%)	Dan Lundergan	Tom Miller, MD	50	68	80	72	72	74	2220
Emergency (5%)	Margaret Pearce	Christy Hopkins, MD	15	43	70	44	81	84	122
Ambulatory Surgery (5%)	Margaret Pearce	Tom Miller, MD	57	59	70	52	79	87	84
UNI - 10%	Ross VanVranken	Michael Lowrey, MD	96	93	90	94	98	98	431
Huntsman Cancer - 15%	Ray Lynch	John Sweetenham, MD	93	98	90	97	97	97	953
Inpatient (50%) Recommend-HCAHPS	Sue Childress	Ward/Scaife/Harris/Boyer	99	99	90	97	99	99	121
Outpatient (50%)	Don Milligan	William Dunson, MD	87	96	90	96	95	95	832
UOC - 5%	Bart Adams	Charles Saltzman, MD	40	50	60	50	44	43	676
Inpatient (30%)			72	76	80	66	60	53	98
UUOC Inpatient: Recommend-HCAHPS	Janiel Quinn	Patrick Greis, MD	97	95	90	97	96	86	12
OTSS Inpatient: Recommend-HCAHPS	Lance Littlelike	Chris Pelt, MD	69	73	78	64	55	48	86
Outpatient (55%)	Ryan Vanderwerff	Patrick Greis, MD	18	28	60	28	47	49	397
Orthopaedic Surgery (80%)					60	30	53	51	518
Physical Medicine & Rehab (20%)					60	20	25	43	58
Ambulatory Surgery (15%)	Janiel Quinn	Patrick Greis, MD	35	76	90	97	1	1	2
Moran Vision Services - 5%	Wayne Imbrescia	Randall Olson, MD	54	68	74	53	49	49	1243
Community Clinics - 10%	Wayne Imbrescia	Susan Terry, MD	38	68	78	72	78	76	2674

Column Key:
11th%tile or more below goal
Within 10th%tile of goal
Met goal OR 90th%tile and above

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How We Engage Faculty by SHARING DATA

MD - Cardiology	National Rank		
	2011	2012	2013
Care Provider Section	29	63	81
Friendliness/courtesy of CP	28	59	76
CP explanations of prob/condition	29	67	80
CP concern for questions/worries	31	63	80
CP efforts to include in decisions	29	67	84
CP information about medications	28	62	74
CP instructions for follow-up care	24	52	68
CP spoke using clear language	29	59	76
Time CP spent with patient	21	55	72
Patients' confidence in CP	40	73	92
Likelihood of recommending CP	34	61	88
	National Rank		
	2011	2012	2013
Care Provider Section	48	59	72
Friendliness/courtesy of CP	46	58	72
CP explanations of prob/condition	45	54	68
CP concern for questions/worries	46	59	70
CP efforts to include in decisions	48	61	72
CP information about medications	46	57	70
CP instructions for follow-up care	39	51	62
CP spoke using clear language	62	70	76
Time CP spent with patient	38	56	68
Patients' confidence in CP	57	63	73
Likelihood of recommending CP	46	58	70

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Feedback and Recognition REINFORCE ENGAGEMENT & CHANGE

Recognition



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How We SHARE DATA WITH CONSUMERS

University of Utah Health Care | Salt Lake City, Utah

healthcare.utah.edu

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UofU Patient August 05, 2013
She is an outstanding care provider

UofU Patient June 04, 2013
Having my daughter and husband with me at these appointments was important to me, because they hear things that I don't and they ask questions that I might not think of. My daughter is a nurse and can understand a lot of things that might go right over my head.

UofU Patient May 31, 2013
great information, attitudes and care

UofU Patient May 19, 2013
Dr. Scaife is the best.

UofU Patient May 16, 2013
Each professional we saw was very professional and very willing to answer all of our questions and concerns.

UofU Patient May 07, 2013
all good

UofU Patient April 15, 2013
All my concerns were fully answered and handled in a professional and caring manner.

UofU Patient Dr. Courtney
emotionally h

UofU Patient Excellent car
time and gave exx

“Every medical system in the country should embrace online reviews.”

always very good. her support

PA and doctor took plenty of

medpageTODAY'S
KevinMD.com
Social media's leading physician voice

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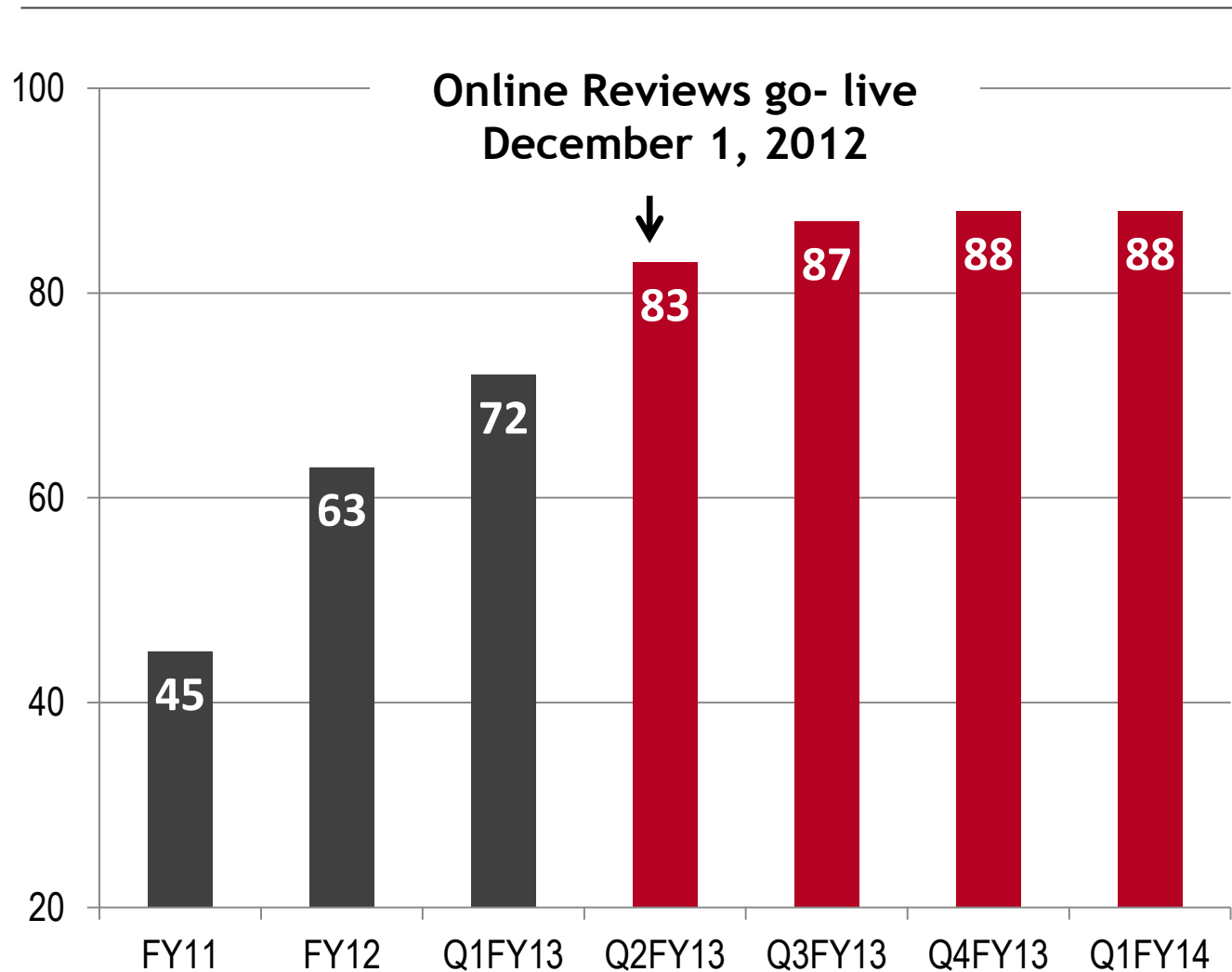
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Improving PATIENT SATISFACTION



Data collection: Press Ganey Medical Practice Survey, UHC Compare Group

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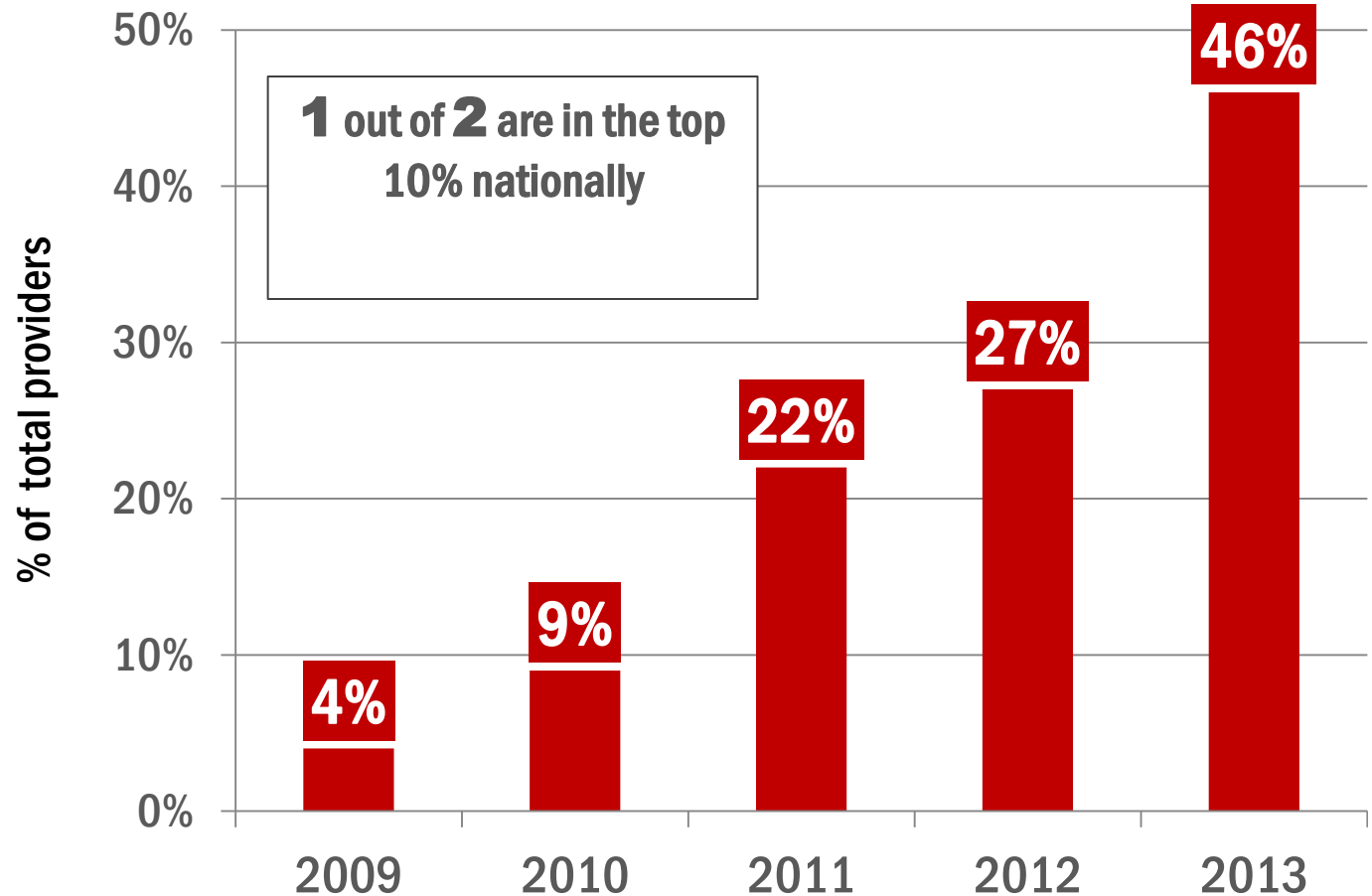
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Percentile of Providers 90TH %ILE OR ABOVE



Medical Practice Survey - providers must have n=30 returned in calendar year
National Rank - compared against the Press Ganey National Database: 128,705 physicians

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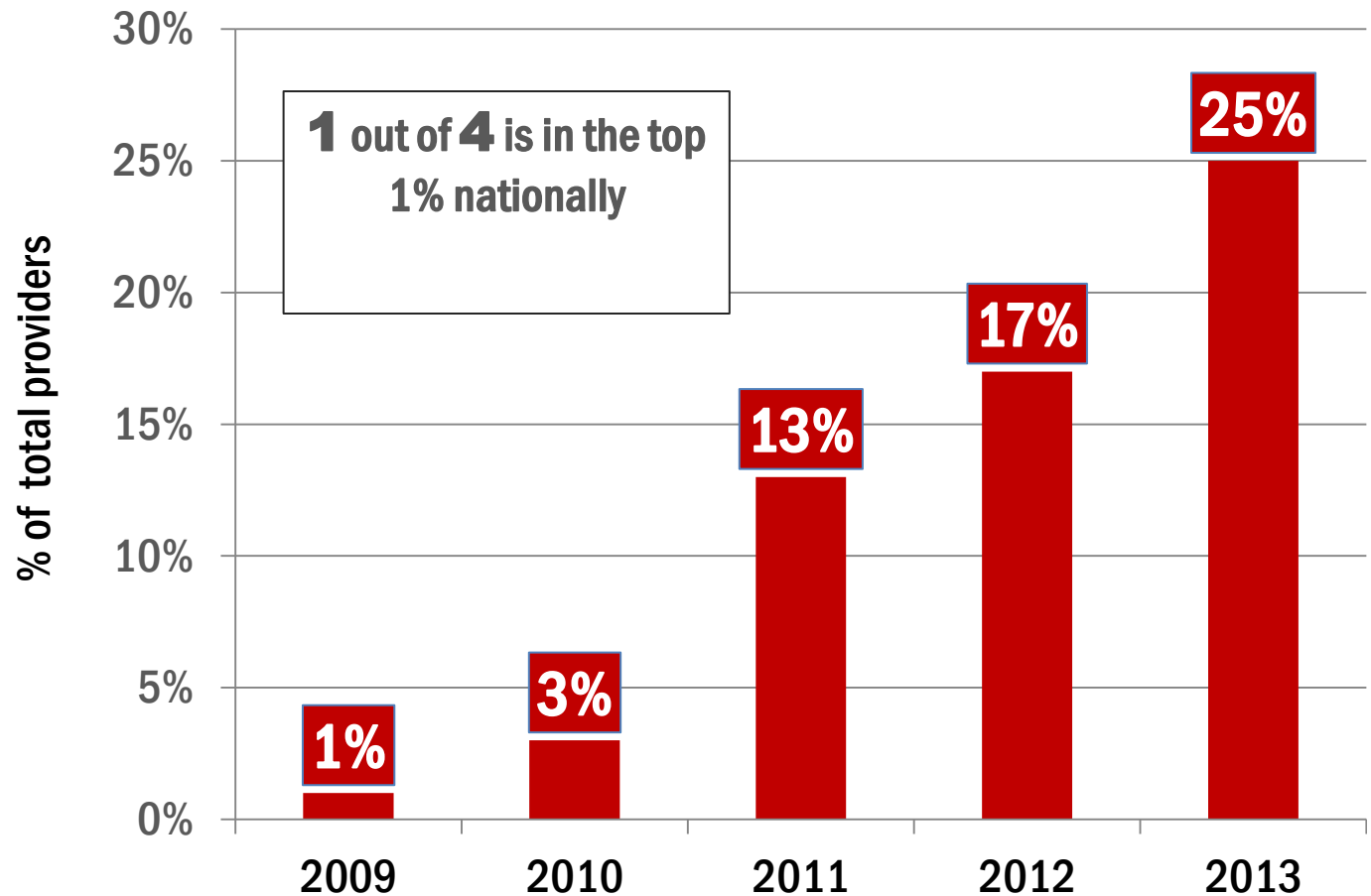
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How Do We
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***CASE STUDY:
VALUE DRIVEN
OUTCOMES***

TACKLING THE HEALTH CARE CRISIS

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Harvard Business Review

October 2013

The Big Idea

THE STRATEGY THAT WILL FIX HEALTH CARE



98 Harvard Business Review October 2013

PROVIDERS MUST LEAD THE WAY IN MAKING VALUE THE OVERARCHING GOAL
BY MICHAEL E. PORTER AND THOMAS H. LEE

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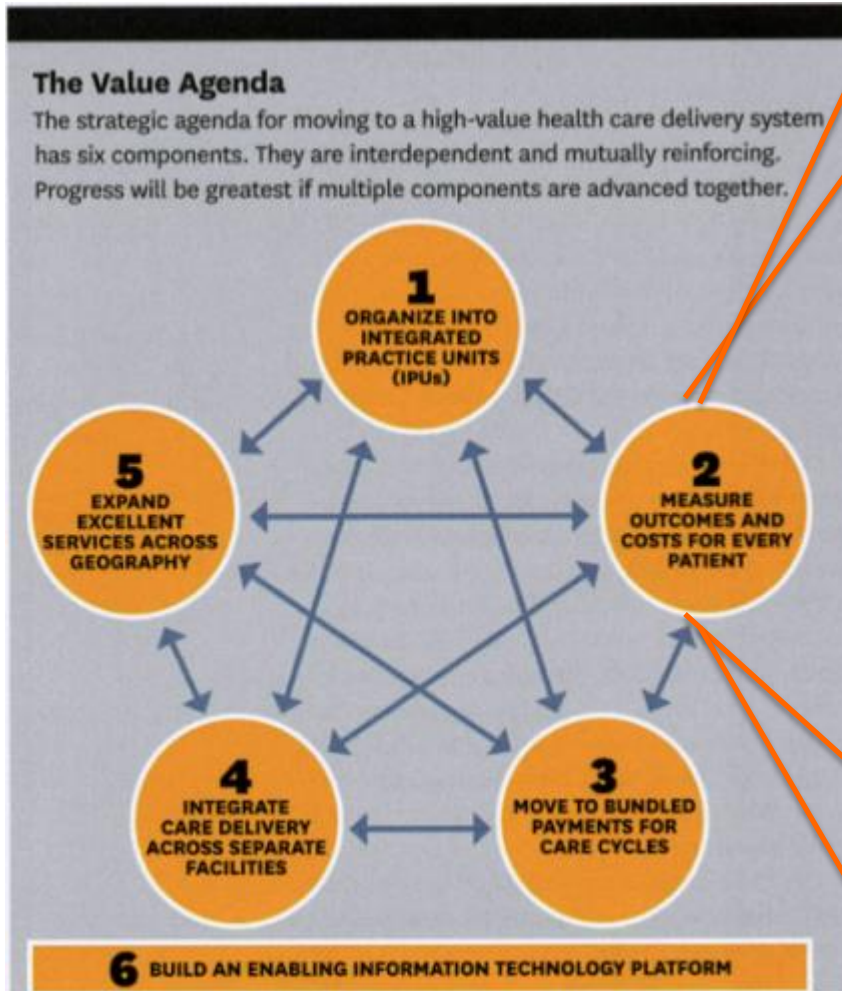
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Harvard Business Review

October 2013



“Accurate costing also unlocks a whole cascade of opportunities, such as process improvement, better organization of care, and new reimbursement approaches that will accelerate the pace of innovation and value creation”

- Robert S. Kaplan and Michael E. Porter, “The Big Idea: How to Solve the Cost Crisis in Health Care”, HBR, September 2011

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Can We Handle **THE TRUTH IN HEALTH CARE?**



**WE DON'T KNOW OUR
COSTS.**

**WE DON'T KNOW OUR
OUTCOMES.**

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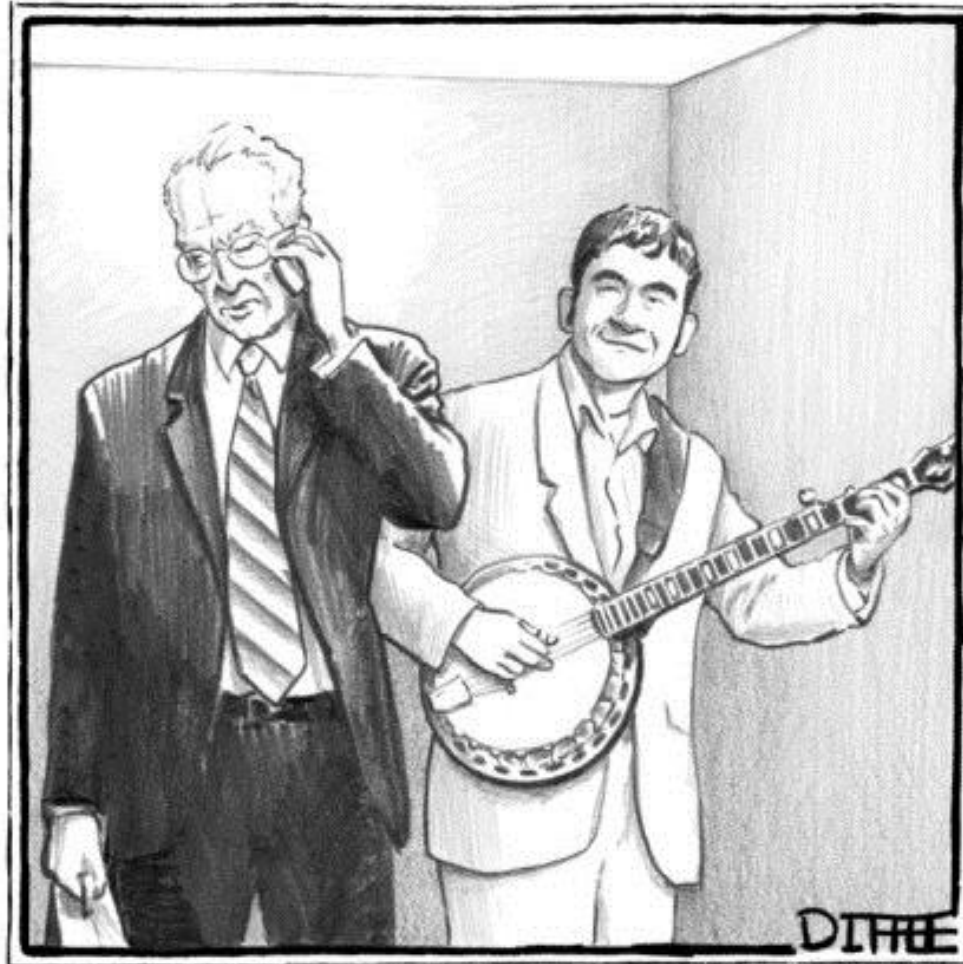
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How Can We Know Our Costs? **START WITH SEQUESTRATION**



"I'm trapped in an elevator—wait, it gets worse."

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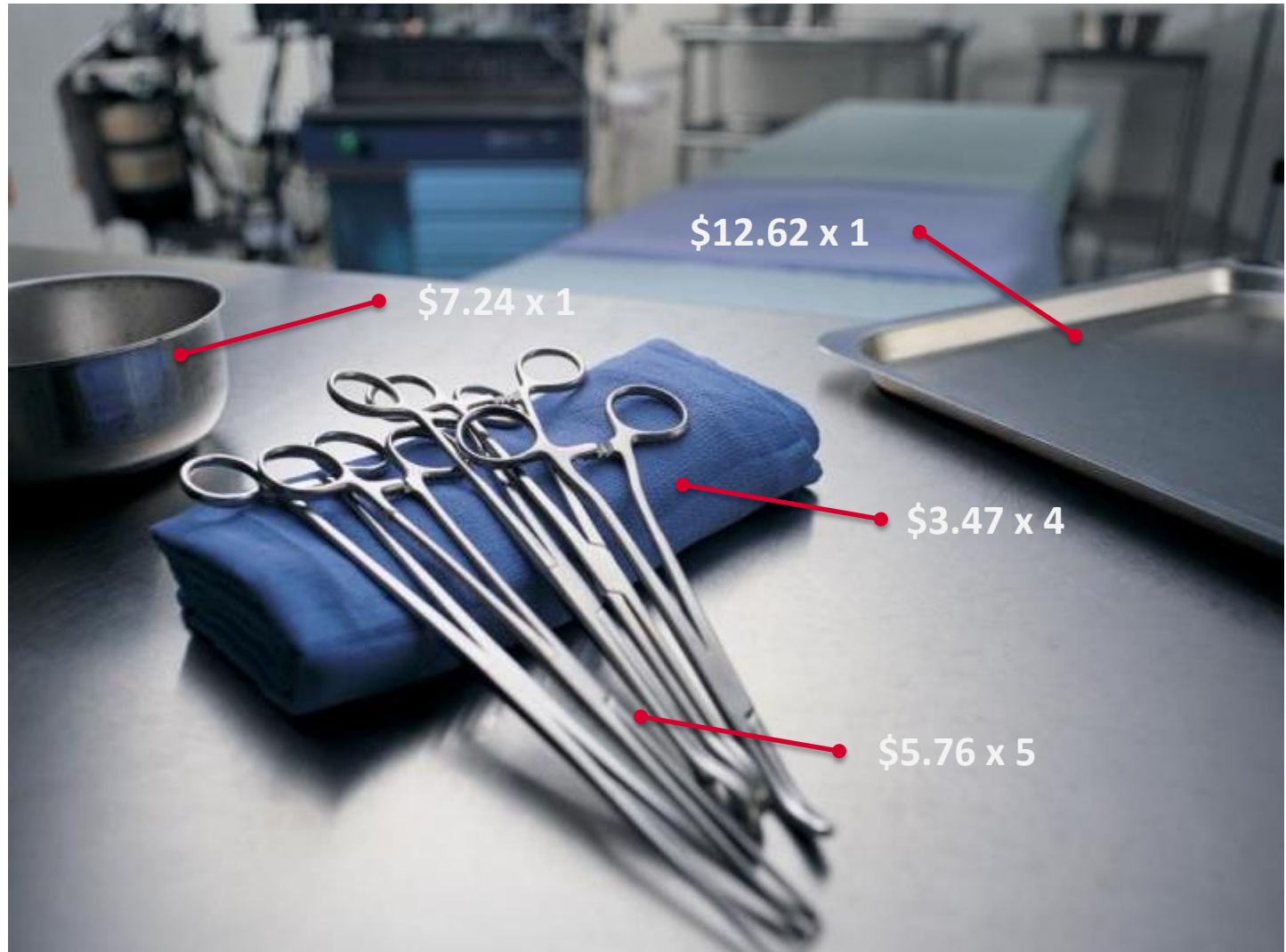
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VDO VALUE DRIVEN OUTCOMES



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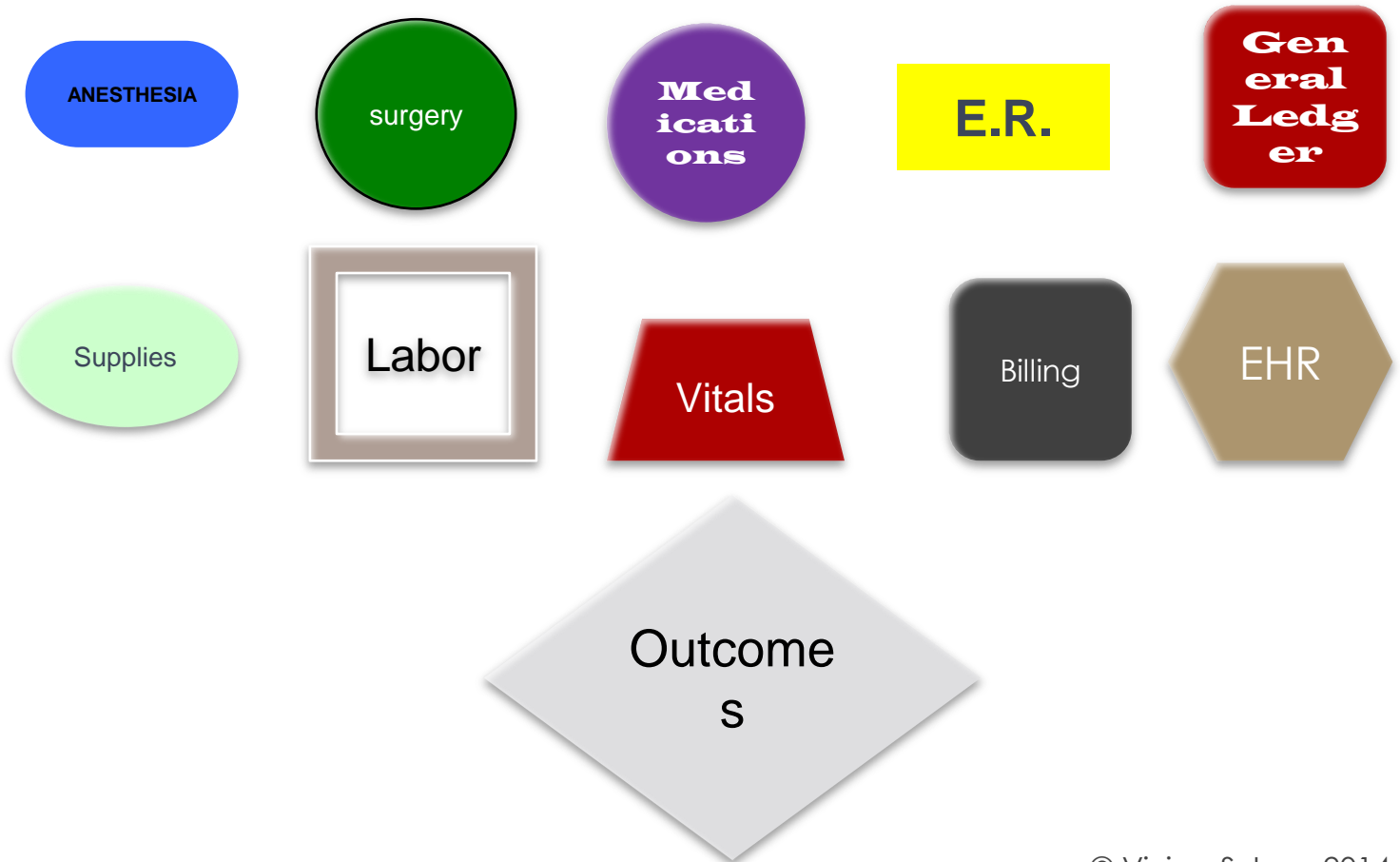
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VDO: Nuts and Bolts IDENTIFY AND GATHER DATA



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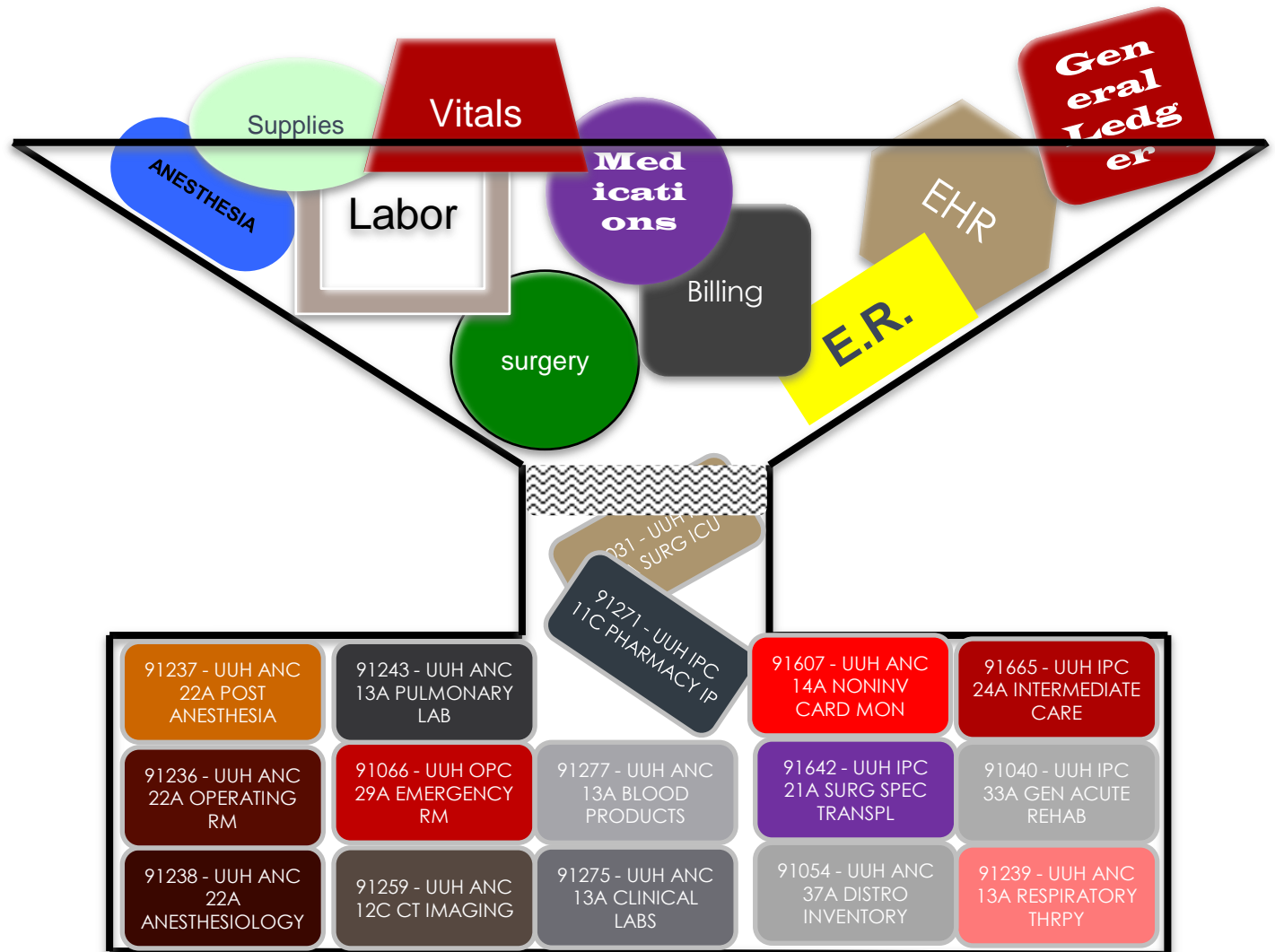
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VDO: Nuts and Bolts EXTRACT, LOAD AND TRANSLATE DATA



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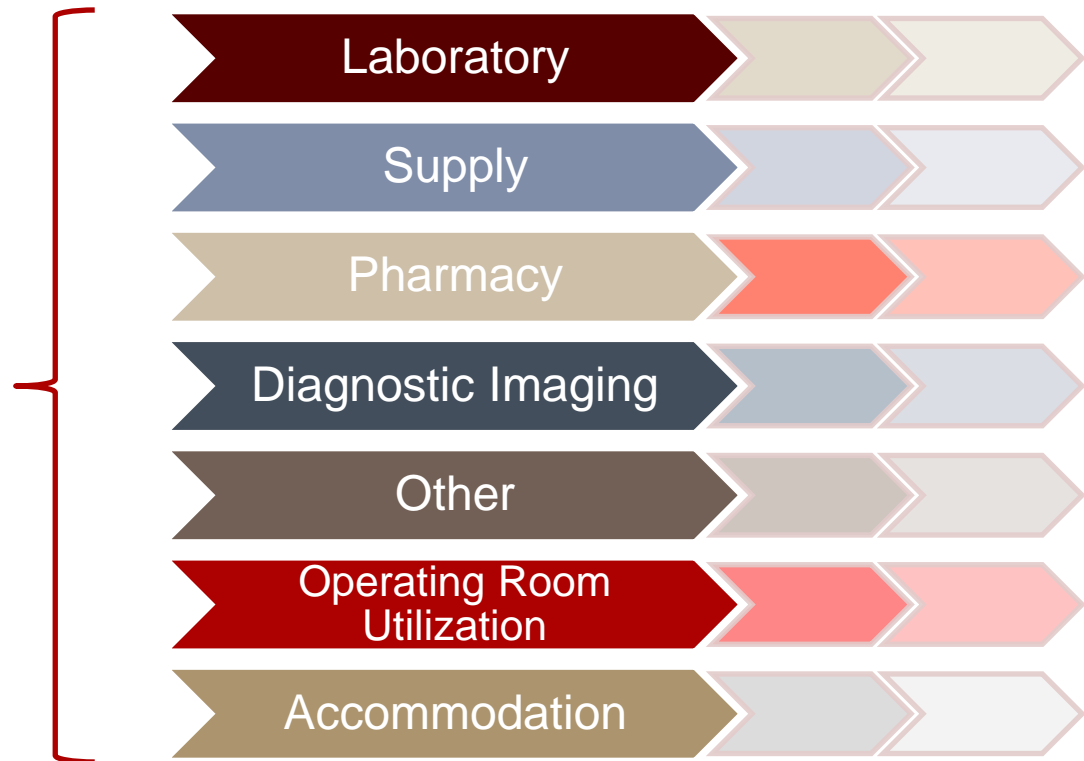
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VDO: Nuts and Bolts CATEGORIZE AND ALLOCATE EXPENSES

Cost Type
Groupings



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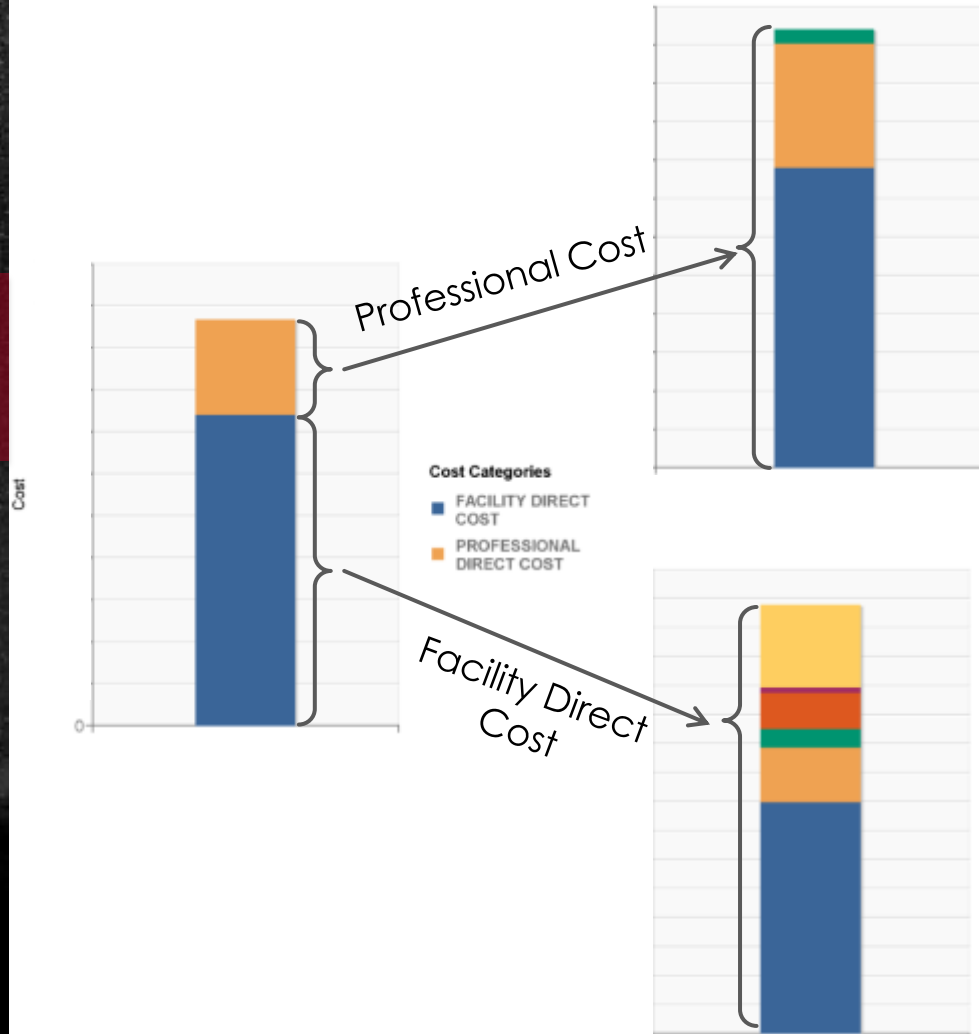
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Facility Cost Allocations

*Emergency Appendectomy (47.01 Laparoscopic Appendectomy),
3.12 Clinical LOS*



Cost Source: 5 Depts

- Pathology
- Anesthesiology
- Surgery
- Neurology
- Radiology

Cost Source: 16 Orgs

- 91066 - UUH OPC 29A EMERGENCY RM
- 91237 - UUH ANC 22A POST ANESTHESIA
- 91277 - UUH ANC 13A BLOOD PRODUCTS
- 91259 - UUH ANC 12C CT IMAGING
- 91236 - UUH ANC 22A OPERATING RM
- 91275 - UUH ANC 13A CLINICAL LABS
- 91607 - UUH ANC 14A NONINV CARD MON
- 91238 - UUH ANC 22A ANESTHESIOLOGY
- 91243 - UUH ANC 13A PULMONARY LAB
- 91031 - UUH IPC 24A SURG-ICU
- 91665 - UUH IPC 24A INTERMEDIATE CARE
- 91642 - UUH IPC 21A SURG SPEC TRANSPL
- 91271 - UUH IPC 11C PHARMACY IP
- 91040 - UUH IPC 33A GEN ACUTE REHAB
- 91054 - UUH ANC 37A DISTRO INVENTORY
- 91239 - UUH ANC 13A RESPIRATORY THRPY

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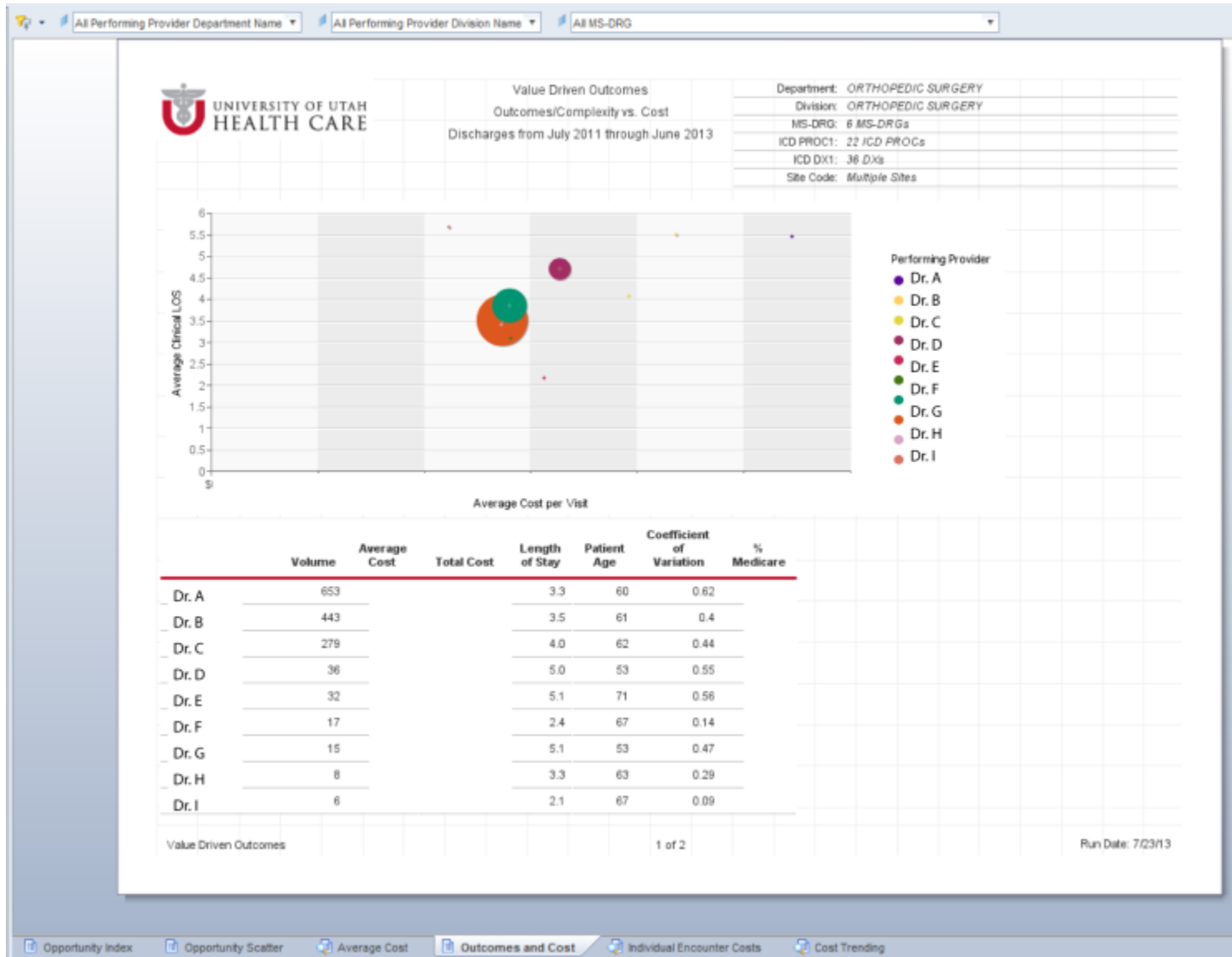
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Use Data to SHARE PRESENT STANDARDS



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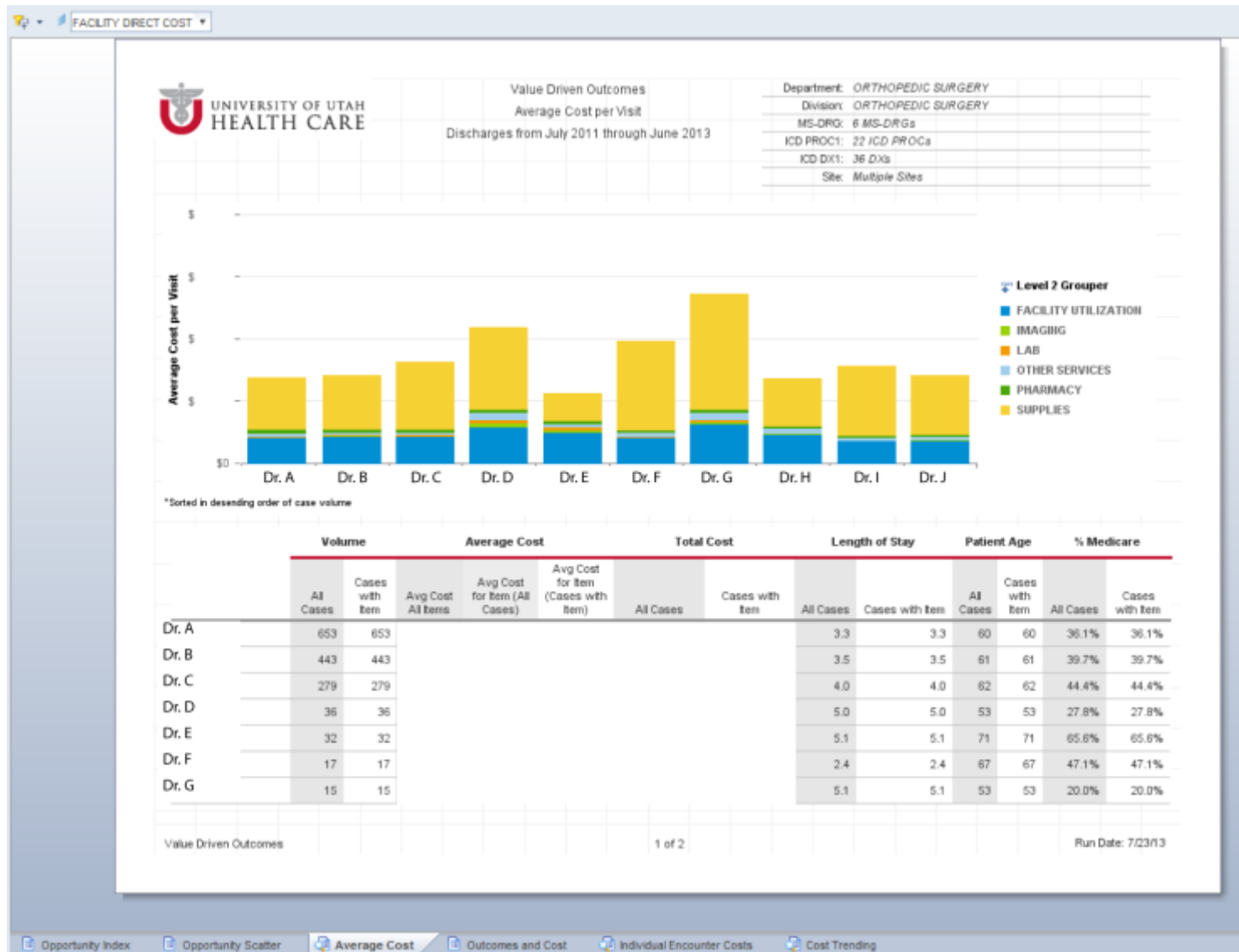
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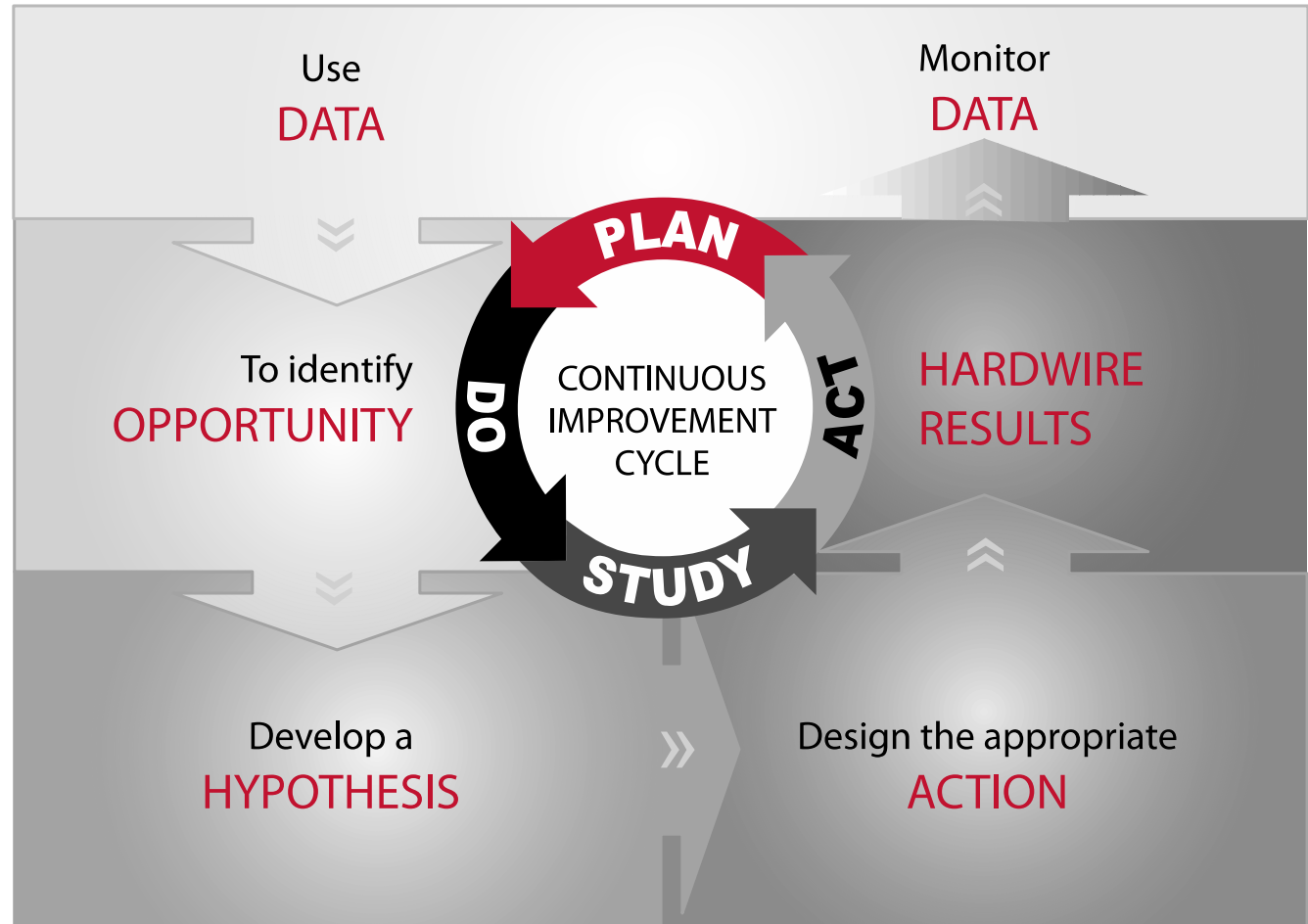
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Use Data to Create a LEAN PROCESS



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Engage Your **FRONT LINES**



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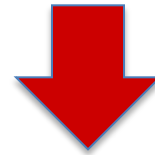
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ENGAGE
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staff
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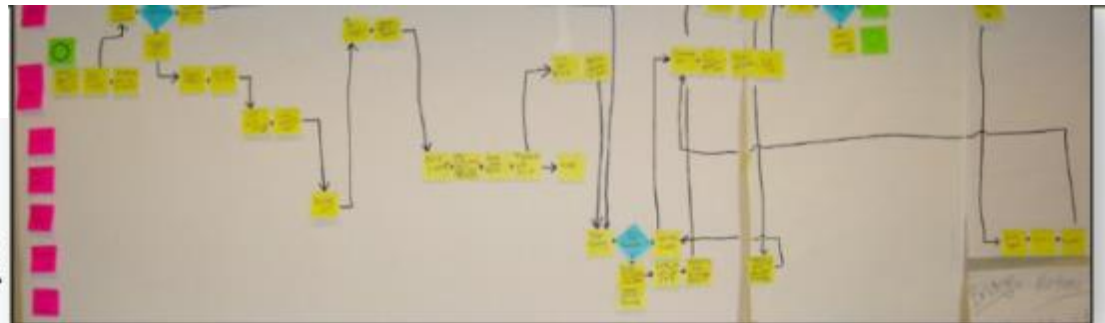
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Engage Everyone to REDESIGN SYSTEMS & PROCESSES

Mapping Current State



AFTER



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develop YOUR teams

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Use DATA to Engage PROVIDERS TO BE PROBLEM-SOLVERS

UNIVERSITY OF UTAH HEALTH CARE

Value Driven Outcomes
Orthopedic Outcomes Visit Detail
Visit Number: 190247436

Attending Provider: _____
Admitting Provider: _____
Performing Provider: _____
Referring Provider (ADT): _____

Visit Number	190247436
Admission Date/Time	10/12/2012 8:50:00 AM
Discharge Date/Time	10/16/2012 3:16:00 PM
Clinical LOS	
MRN	
Patient Name	
Age at Admit	
Primary Payor Category	Commercial Products
Primary Payor Group	thc Products

Ortho Outcomes Report Card	Cost Groups	Cost
UHC 30 Day Readmit	Facility Utilization	N/A
ED Visit Within 90 Days	Imaging	N/A
Early Mobility	Lab	N/A
SCIP Check	Other Services	N/A
OTSS	Pharmacy	N/A
HACIPSI	Supplies	N/A
Perfect Care	Total	N/A

Supply Cost Detail	Cost	Qty
Stryker Tib Baseplate 5520-b-300	N/A	4
Stryker Tib Bearing Insert 5531-f-300	N/A	4
Stryker Cruc Ret Fem 5510-f-301	N/A	2
Stryker Cruc Ret Fem 5510-f-302	N/A	2
Stryker Symm Patella 5550-g-298	N/A	4
Hb Cement W Gent Palacos	N/A	8
Stryker Headless Pin 7650-1038a	N/A	2
Stryker Headless Pin 7650-1038a	N/A	2
Hb Oxygen	N/A	8
Blade System Sag	N/A	6
Hb Tray Knee Dressing	N/A	4
Hb Cold Therapy Pad 11x12in	N/A	4
Hb Pad Pressure Protector Unvest	N/A	2
Hb Ted Hose Thigh L-L	N/A	2
Hb Av Impulse Pad Regular	N/A	2
Hb Nerve Block Tray	N/A	2
Hb Cpm Machine	N/A	10
Dermabond Skin Adhesive	N/A	4
Hb Dermabond Advanced Topical Skin Adh	N/A	2
Hb Daninger 400 Serged Edge Knee Adj P	N/A	2

ICD 9 Diagnosis	ICD 9 Procedures	Performing Provider
1 715.36 - Loc Osteoarthritis Not Spec Prim/sec Lower Leg	1 81.54 - Total Knee Replacement	
2 278.00 - Obesity, Unspecified	2 81.54 - Total Knee Replacement	
3 V85.34 - Body Mass Index 34.0-34.9 Adult	3	
4 300.00 - Anxiety State, Unspecified		
5 729.1 - Unspecified Myalgia And Myositis		

Unit	Hospital Service	In Date	Out Date	Days on Unit
SSU - UH (SSU) SURGICAL SHORTSTAY UNIT	ORT - Orthopaedics	10/12/2012 8:50:00 AM	10/12/2012 12:28:00 PM	0
PACU - UH (PACU) POST ANESTHESIA RECOVERY UNIT	ORT - Orthopaedics	10/12/2012 12:28:00 PM	10/12/2012 2:59:00 PM	0
OTSS - UH (OTSS) ORTHO TRAUMA SURG SPECIALTIES	ORT - Orthopaedics	10/12/2012 2:59:00 PM	10/16/2012 3:16:00 PM	4

Value Driven Outcomes 1 of 2 Refresh Date: 12/6/13

191034128	PASSED	PASSED	FAILED	PASSED	PASSED	PASSED	FAILED
191118187	PASSED	PASSED	FAILED	PASSED	PASSED	PASSED	FAILED

How Do We Transform The System?

COMMUNICATE THE need for CHANGE

develop YOUR teams

establish METRICS

ENGAGE physicians staff and trainees

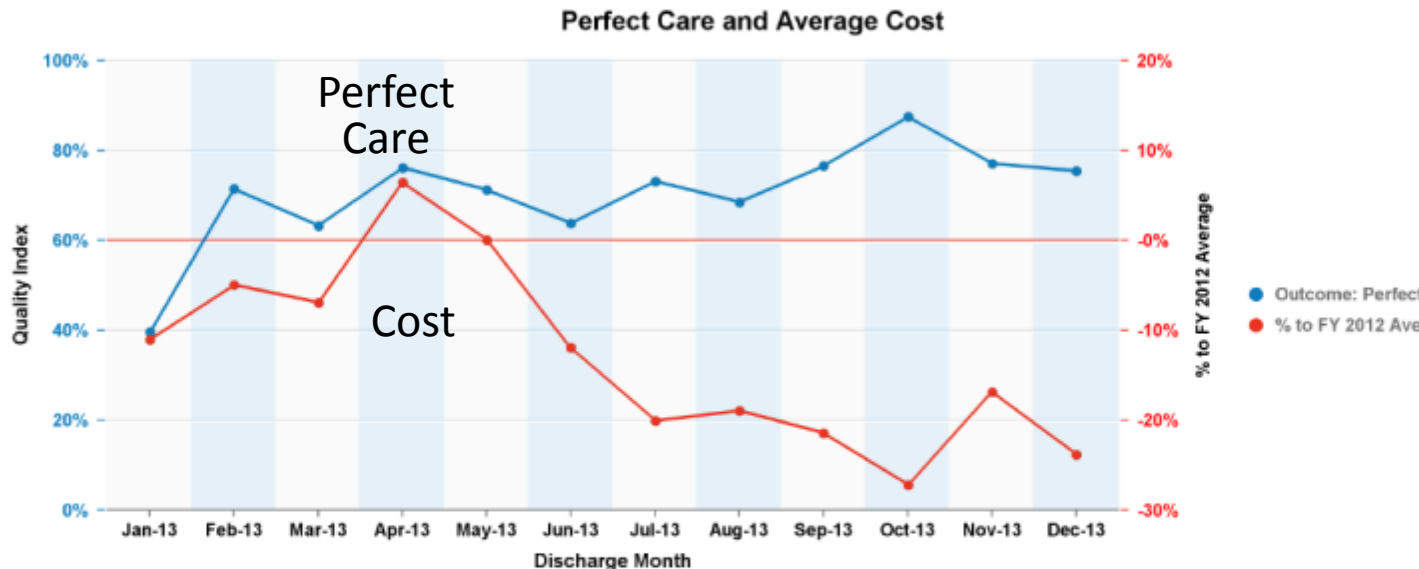
NURTURE a culture of continuous INNOVATION

Where Quality Goes Up & COST GOES DOWN



Value Driven Outcomes
Outcomes and Cost Trend
Discharges from January 2013 through December 2013

Department: ORTHOPEDIC SUR
Division: ORTHOPEDIC SUR
Physician: 3 Physicians
Outcome Measure: Perfect Care
Primary ICD 9 Procedure: 11 Procedures



Quality Index: Percentage Of All Visits Where Selected Care Measure Was Met
Average Cost Per Visit: Average Total Direct Facility Cost

Discharge Month	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13
Perfect Care	39.6%	71.4%	63.3%	76.2%	71.2%	63.8%	73.2%	68.5%	76.6%	87.5%	77.1%
% to FY 12 Average Cost	-11.1%	-4.9%	-6.9%	6.4%	0.1%	-11.9%	-20.1%	-18.9%	-21.4%	-27.2%	-16.9%
Visit Count	53	49	49	42	66	58	41	54	64	56	48
Perfect Care Failure Count	32	14	18	10	19	21	11	17	15	7	11

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Hard-wiring the System THROUGH PARTNERSHIPS

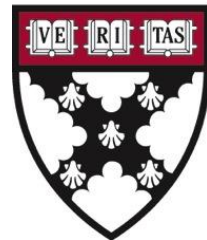


**David Eccles
School of Business**
THE UNIVERSITY OF UTAH

LEAN 101

TIME-DRIVEN

Activity-Based Costing



**HARVARD
BUSINESS SCHOOL**

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Share Best Practices SPREAD THE WORD

Call Back time for
Behavioral Health

↓ by 12%

Care Provider
National Rank:

↑ 53rdile
to 77thile

Sterilization
Process
↓ Rework &
Supply
Expense

Develop
Baclofen
Refill Clinic

Improve
ACCESS:
38 to 13 days

Inpatient MDI
waste
Reduction:

↓ \$24k/yr

Open Colectomy Fast
Track
\$400k savings

Improving visit
level coding
accuracy

\$599

Unnecessary Lab
use reduction:
\$186k YTD

IVIG Medicare
Reimbursement
26% to 50% ↑

↑ Main ENT Clinic:
1 New Patient
Visit per Clinic
Day

↑ Rad. Onc.: Carbon
Copy Process to
Referring Providers to
100%

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Creating a Value-
Driven
Organization

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