

# Clinical Success Metrics in Commercial Episode of Care Programs

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# Agenda

1. Remedy Case Study – BPCI Govt Programs
2. Creating opportunity in the Commercially Insured Space
  - Price Variability
  - Overuse and Appropriateness
  - Variation in Typical costs and for Actionable Adverse Events (AAEs)
  - Feedback Reports
3. Creating a program with levers of clinical and financial success
  - Maternity Levers
  - Procedural Lever Development

## Shifting to Value Based Models

- ✓ Since the establishment of Diagnosis Related Groups (DRGs) in United States the 1980s, inpatient length of stay decreased, but post acute utilization and spending continued to rise (Figure 1)<sup>1,2</sup>
- ✓ Centers for Medicare and Medicaid Innovation (CMMI) introduced Bundled Payments for Care Improvement (BPCI) in 2013 which incentivized providers and care teams to assume accountability for a patient's care for a defined period of time.
  - The program was successful in reducing costs and resulted in savings.
  - Through a series of semi-structured interviews with hospital executives participating in BPCI, Zhu and colleagues (2018)<sup>3</sup> highlighted the primary focus areas for post-acute care savings: these include reduced referrals to skilled nursing facilities (SNF) using risk stratification tools, leveraging home care supports, patient education and enhancing coordination with home health agencies to facilitate discharges to home; and enhancing coordination with predetermined networks of SNFs to exert influence over SNF quality and cost.
  - The program was expanded in 2018.

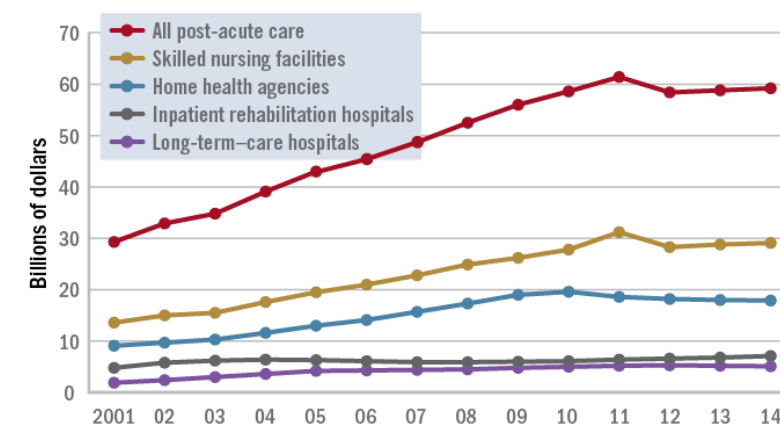
<sup>1</sup><https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5266471/>

<sup>2</sup><https://www.the-hospitalist.org/hospitalist/article/129720/transitions-care/eight-things-hospitalists-need-know-about-post-acute>

<sup>3</sup><https://www.healthaffairs.org/doi/10.1377/hlthaff.2018.0257>

Figure 1<sup>2</sup>

Figure 1: Medicare post-acute care expenditures, 2001-2014



Note: Based on data from the CMS Office of the Actuary.

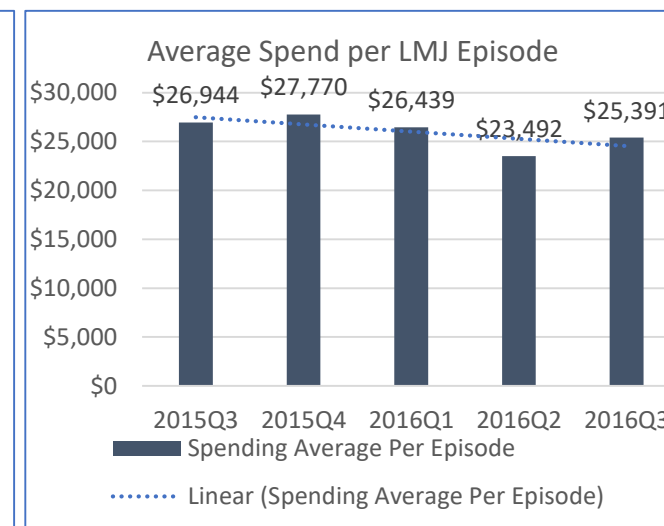
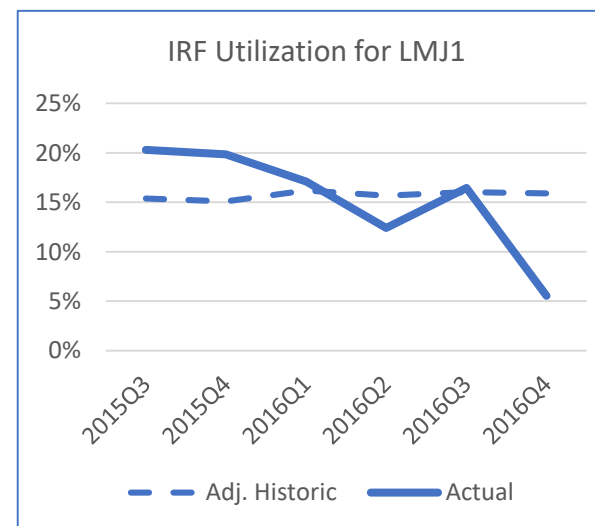
Source: Medicare Payment Advisory Commission

## Case Study BPCI – Increasing Physician Engagement

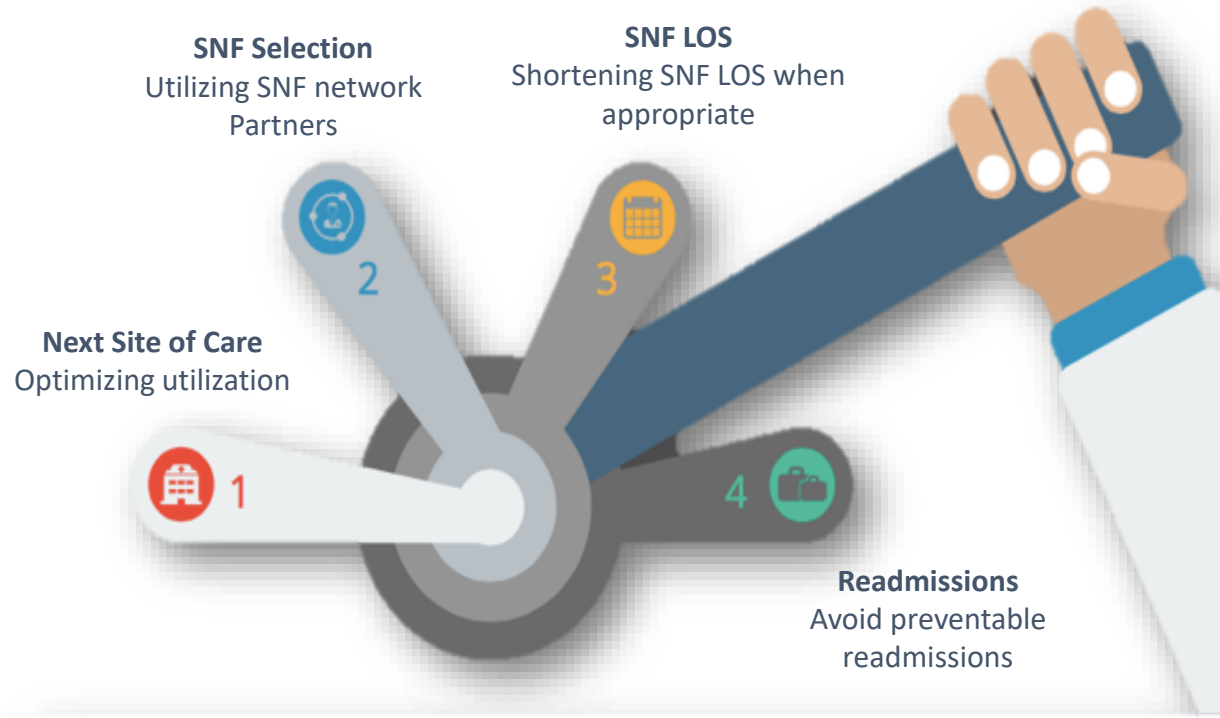
Hospital hospital system with over 400 episodes per quarter. Large program size located in Fort Lauderdale, FL. The non-profit 557-bed hospital was live in 16 BPCI bundles with LMJ as the largest episode. Physician gainsharing was in place but physician engagement was low.

- ✓ Development of a physician scorecard to show physicians their performance relative to their peers
- ✓ Leveraged physician champions to communicate initiatives to peers
- ✓ Education and trainings were focused on a few key levers and performance metrics.

	Overall 2016Q2	MD X Overall	2015Q4	2016Q1	2016Q2
Number of Episodes	121	175	59	62	54
Discharges to Home	12.40%	7.40%	5.10%	8.10%	9.30%
Discharges to HHA	57.90%	58.90%	55.90%	53.20%	68.50%
Discharges to SNF	16.50%	25.10%	30.50%	30.60%	13.00%
Discharges to IRF	12.40%	8.00%	8.50%	8.10%	7.40%
% of Episodes with a Readmit (90 days)	5.80%	4.60%	5.10%	8.10%	0.00%
Average SNF Days	17	14.9	16.2	13.7	14.7



## Remedy's BPCI Levers of Success



## Overall Government Impact

### Next Site of Care Decisions



**-10.7%**

*Avg. SNF Discharge Rate Reduction*

### Post-Acute Stay Duration



**-12.5%**

*Avg. SNF LOS (days) Reduction*

### Patient Readmissions



**-10.2%**

*Avg. 90-day Readmission Rate Reduction*

## How To Drive Behavior Change in an Episodes of Care Program

Data Transparency

Identify Opportunities  
& Assign Resources

Establish Reporting

Education and Tool  
Deployment

Track Success

1

**Narrow the focus** by leveraging data and honing in on one or two operational opportunities at a time. Care team can identify the dominant problem with performance and generate measurable change.

2

**Harness competition** through reporting. Physicians are often motivated by seeing how they or their facility's performance compares to others.

3

**Utilize peer-to-peer communication and leverage onsite resources** to help champion the use of episode tools and education. Physicians tend to be most receptive to their peers.

4

**Incorporate data.** Physicians have been trained to focus on evidence, so tend to find arguments back up by data most compelling.

## The Evolution of Episodes of Care Programs

### BPCI Advanced



Advanced APM  
status under MACRA



Quality-based  
performance measures



Simplified  
precedence rules



Now includes  
outpatient bundles



Risk-adjusted prospective  
pricing

### Commercial Programs



Includes only relevant  
spend in episode price



Includes procedural,  
chronic, and medical



Flexibility in episode  
definitions and levers



Triggered by a  
procedure or  
event



Retrospective, prospective, and  
Reference Based Price products

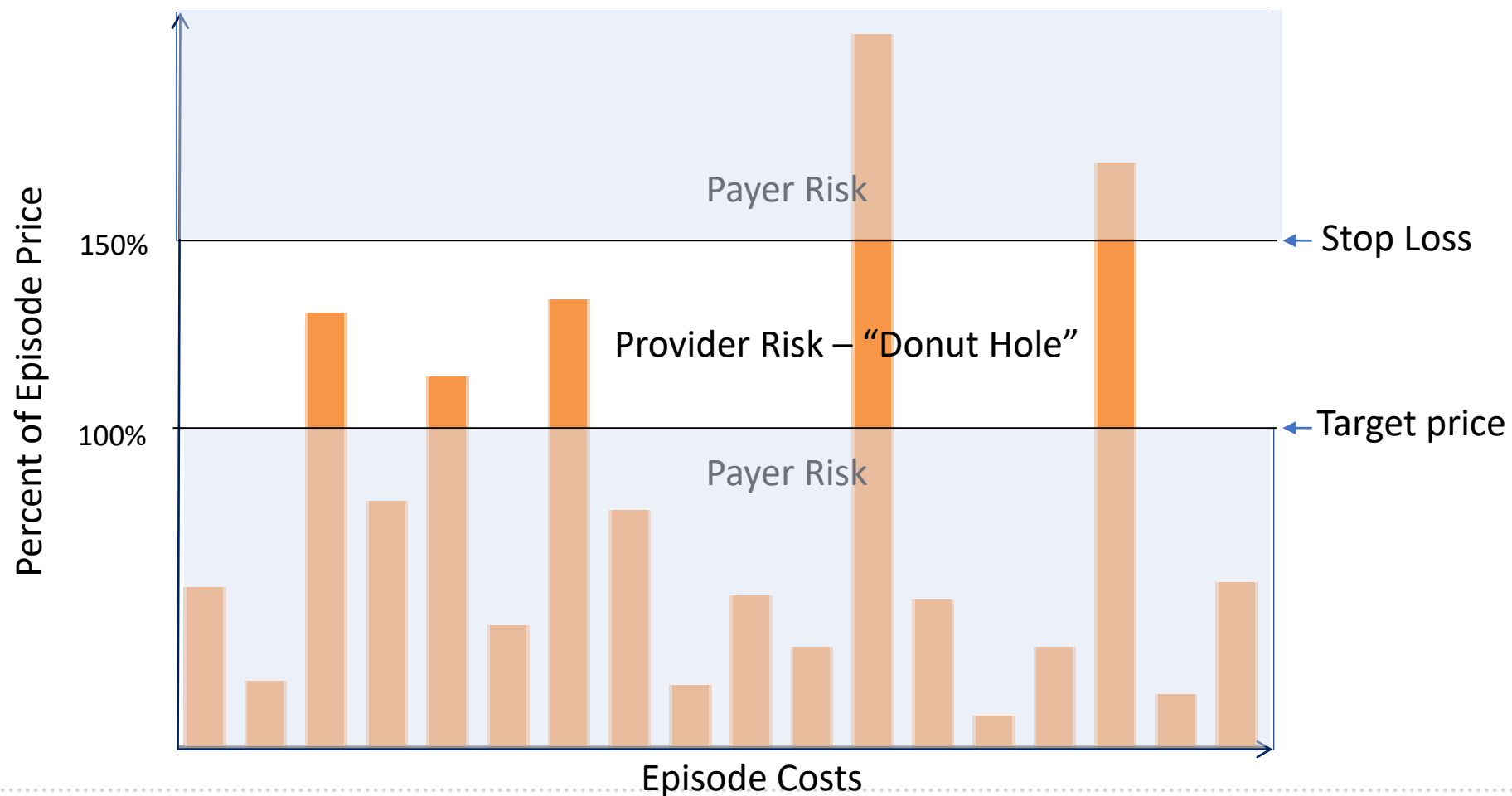


# Capturing Opportunity in the Commercially Insured Space



## Providers Take on Financial Risk: Manage Within Target Price

Target Price based on relevant services within an episode of care

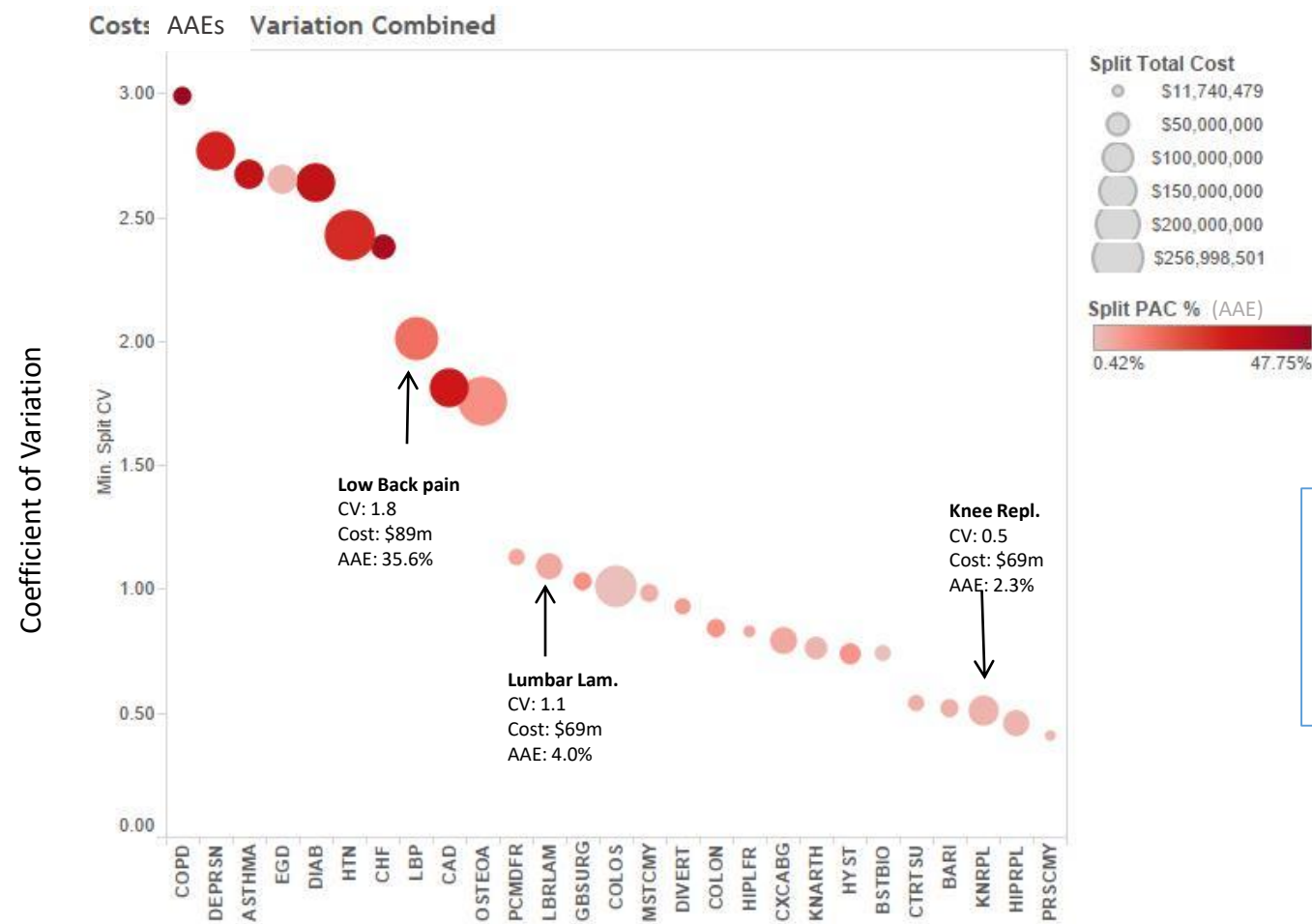


## Episodes of Care change the unit of Accounting and of Accountability

### Simple Mind-Shift: Value Based Payment and Care Redesign

Fee-for-Service	Episodes of Care Payments
Perform procedures if patient demands it	Perform procedures only when clinically warranted (appropriate use criteria)
Paid for complications of procedures	Held accountable for providing consistently excellent outcomes for procedures
Paid for repeat procedures	Repeat procedures viewed as potentially avoidable services – minimize them
Incentive to overuse imaging and other diagnostic workup	Obtain tests when clinically indicated
Treat patient in most convenient location of care (e.g., HOPD for PCIs)	Shift site of care to cost-efficient, high-quality facilities (e.g., ASC for PCIs)
Care Coordination, feedback not included	Integral Part of Bundled Payments: <ul style="list-style-type: none"> <li>• Shared Decision Making</li> <li>• Lifestyle changes</li> <li>• Patient Reported Outcomes</li> </ul>

# Variability in Cost & Quality in EOCs Creates Opportunity to Win

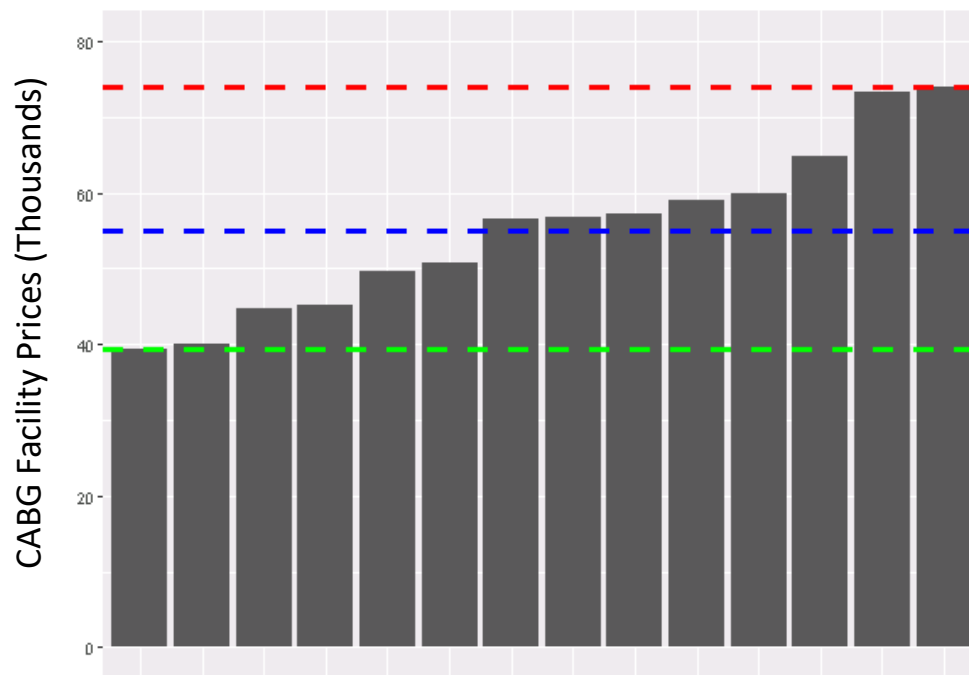


Identifying variability in volume, costs, & actionable adverse events (AAEs) helps identify opportunity for savings

# Price Variability

## Variability in Facility Prices for Same Procedure

Facility Selection: selecting appropriate facility for cardiology episodes



**CABG**  
(inpatient)

\$74,000

Average:  
\$55,100

\$39,400

**PCI**  
(inpatient)

\$37,000

\$27,800

\$16,800

**Pacemaker**  
(Outpatient)

\$26,400

\$19,300

\$9,100



## Huge Difference in Facility Costs Based on Care Setting

Care Setting: Shifting procedures to low cost settings where possible in Orthopedic episodes

Lumbar Laminectomy	Count	Percent	Average Cost
Hospital	1,058	44%	\$39,654
HOPD	1,318	54%	\$14,139
ASC	40	2%	\$8,549


Cost savings  
when surgery  
at ASC or  
HOPD

Knee Arthroscopy	Count	Percent	Average Cost
Hospital	48	1%	\$22,857
HOPD	4,302	68%	\$7,755
ASC	2,018	32%	\$4,569

# Overuse & Appropriateness


## Choosing Wisely Recommendations

- ✓ The Choosing Wisely Campaign has enabled patients and providers to choose care that is
  - a) Supported by evidence
  - b) Not duplicative
  - c) Free from harm and
  - d) Truly necessary
- ✓ Total of **520** recommendations across 80 specialty societies
- ✓ **304** unique recommendations were mapped to episodes and flagged as potentially avoidable services (PAS)
  - 53** recommendations related to cardiology
  - 31** related to musculoskeletal system and connective tissues
  - 22** related to nervous system
  - 19-20** each related to respiratory, blood, and immunologic disorders, skin and breast, or to the female reproductive system
- ✓ We calculated overuse and determined the rate at which unnecessary services are being performed, as well as their accumulated costs



*An initiative of the ABIM Foundation*

American College of Cardiology



**Five Things Physicians and Patients Should Question**

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- 1

**Don't perform stress cardiac imaging or advanced non-invasive imaging in the initial evaluation of patients without cardiac symptoms unless high-risk markers are present.**

Asymptomatic, low-risk patients account for up to 45 percent of unnecessary "screening." Testing should be performed only when the following findings are present: diabetes in patients older than 40-years-old; peripheral arterial disease; or greater than 2 percent yearly risk for coronary heart disease events.
- 2

**Don't perform annual stress cardiac imaging or advanced non-invasive imaging as part of routine follow-up in asymptomatic patients.**

Performing stress cardiac imaging or advanced non-invasive imaging in patients without symptoms on a serial or scheduled pattern (e.g., every one to two years or at a heart procedure anniversary) rarely results in any meaningful change in patient management. This practice may, in fact, lead to unnecessary invasive procedures and excess radiation exposure without any proven impact on patients' outcomes. An exception to this rule would be for patients more than five years after a bypass operation.
- 3

**Don't perform stress cardiac imaging or advanced non-invasive imaging as a pre-operative assessment in patients scheduled to undergo low-risk non-cardiac surgery.**

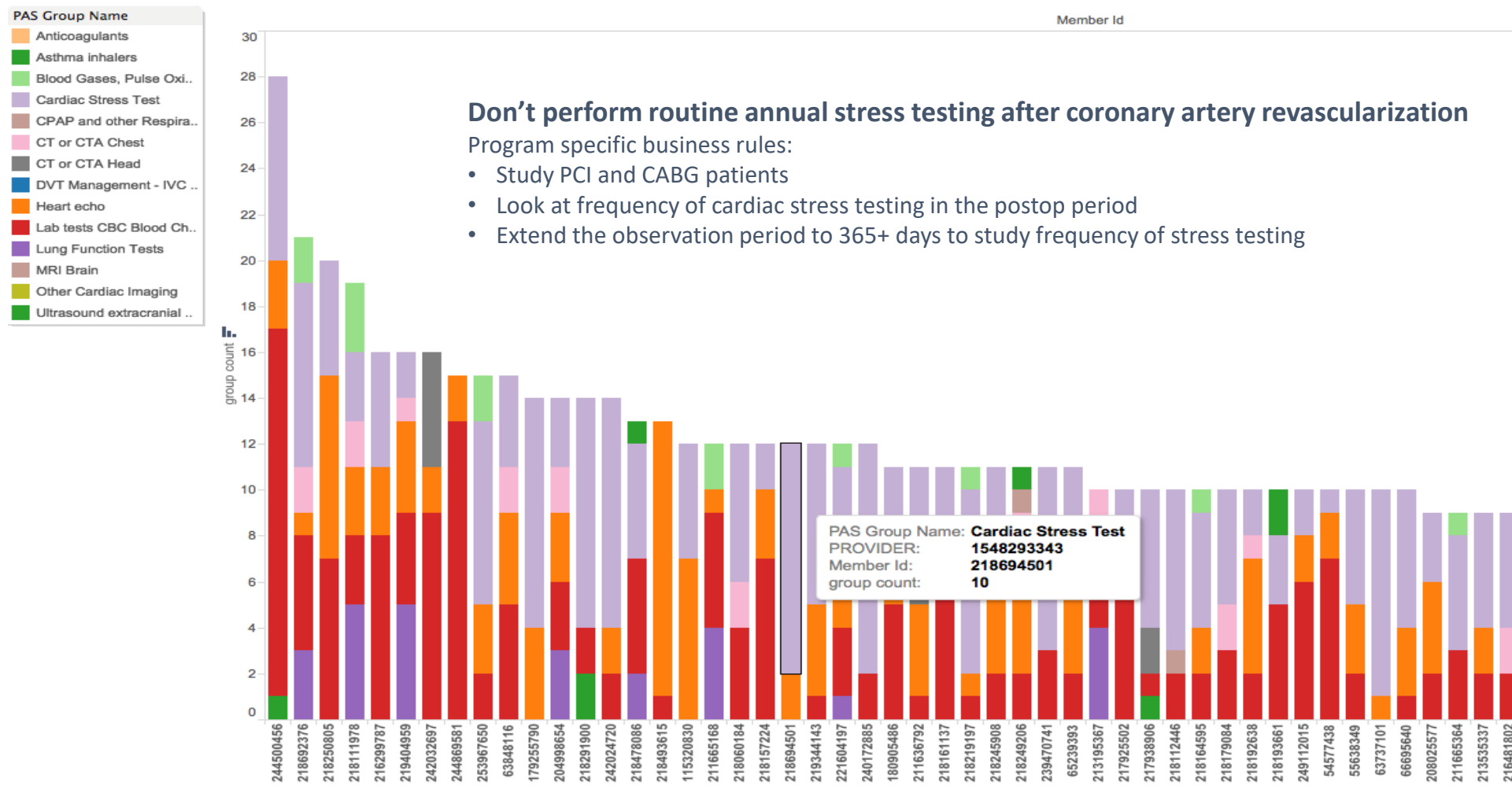
Non-invasive testing is not useful for patients undergoing low-risk non-cardiac surgery (e.g., cataract removal). These types of tests do not change the patient's clinical management or outcomes and will result in increased costs.
- 4

**Don't perform echocardiography as routine follow-up for mild, asymptomatic native valve disease in adult patients with no change in signs or symptoms.**

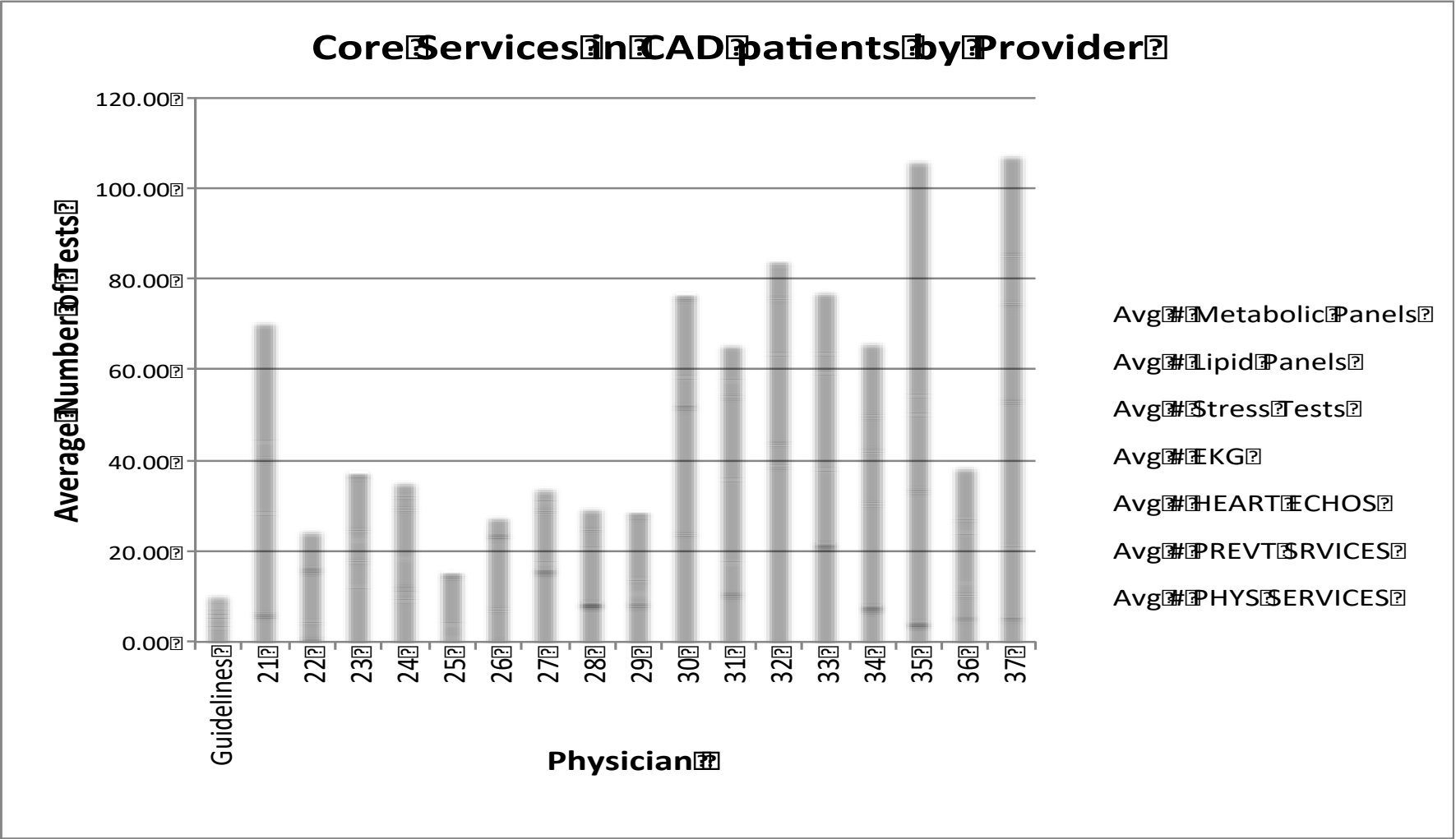
Patients with native valve disease usually have years without symptoms before the onset of deterioration. An echocardiogram is not recommended yearly unless there is a change in clinical status.

Service	Choosing Wisely Recommendation	CPT Codes	CPT Code Description
CV Stress Test	Don't perform stress radionuclide imaging as part of routine follow-up in asymptomatic CAD patients	78451, 78452, 78453, 78454, 78460, 78461, 78464, 78465	Myocardial Perfusion Imaging, at rest or stress

# Overuse of Cardiac Stress Tests



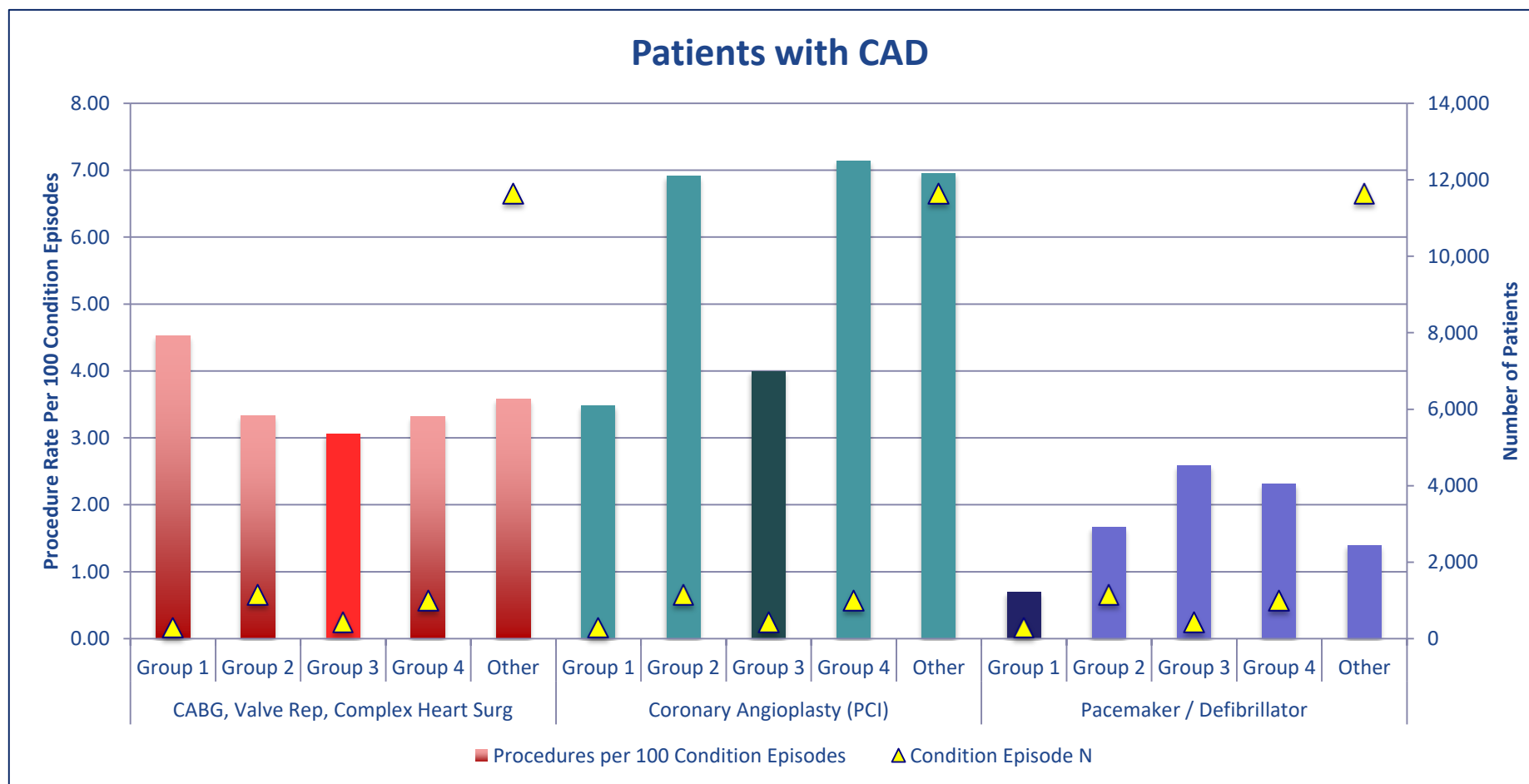
Overuse of Services in CAD by Provider





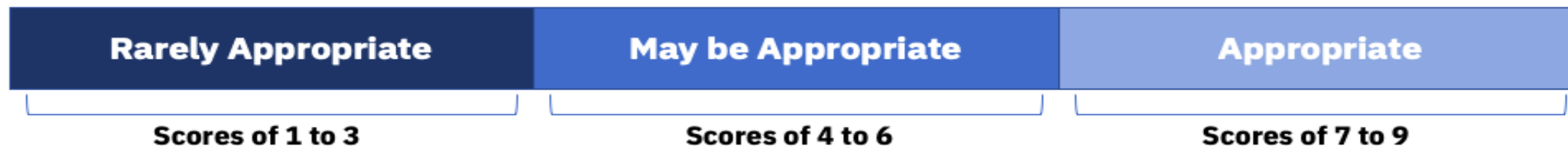
## Appropriateness of Procedures

Incidence of CABG in CAD patients in US = 1.57% & PCI is 7.34%



## Appropriate Use Criteria (AUC) for PCI procedures

- ✓ Nearly 600,000 PCIs are performed in the US each year at a cost that exceeds \$12 billion
- ✓ A large multicenter study<sup>1</sup> demonstrated the inappropriateness of PCI procedures in many cases:
  - Patients with no angina – 53.8%
  - Low-risk ischemia on non-invasive stress testing – 71.6%
  - Suboptimal ( $\leq 1$  medication) anti-anginal therapy – 95.8%
  - Substantial hospital variation exists in inappropriate PCI rates -- median 10.8% (Interquartile range = 6% - 16.7%)
- ✓ The American College of Cardiology developed AUC criteria<sup>2</sup> from clinical scenarios based on:
  - Symptoms, noninvasive testing, coronary artery disease burden as assessed by angiography and SYNTAX scores, fractional flow reserve, and the presence or absence of diabetes**
- ✓ Each clinical scenario is rated on a scale of 1 to 9



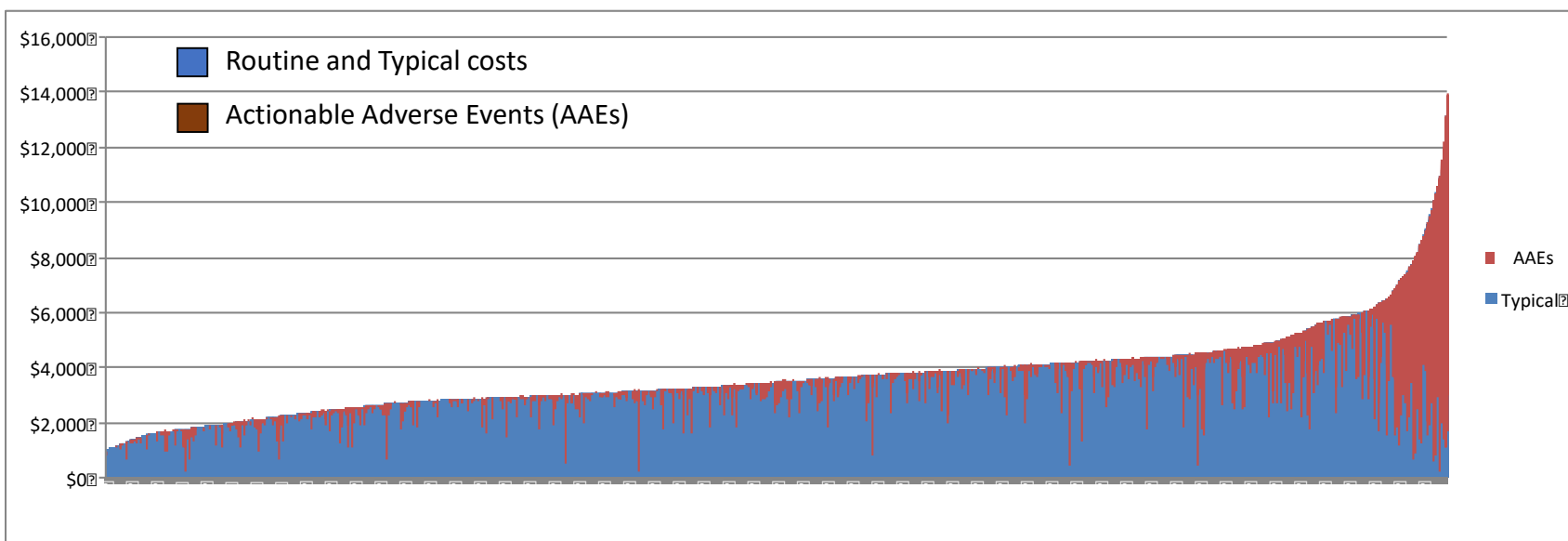
<sup>1</sup> Chan *et.al.* **Appropriateness of Percutaneous Coronary Intervention.** JAMA. 2011;306(1):53-61

<sup>2</sup> Patel *et.al.* **ACC/AATS/AHA/ASE/ASNC/SCAI/SCCT/STS 2017 Appropriate Use Criteria for Coronary Revascularization in Patients With Stable Ischemic Heart Disease.** Journal of the American College of Cardiology May 2017

# Variation in Typical costs and for Actionable Adverse Events (AAEs)

## Identifying variation in both Typical and Complication Costs

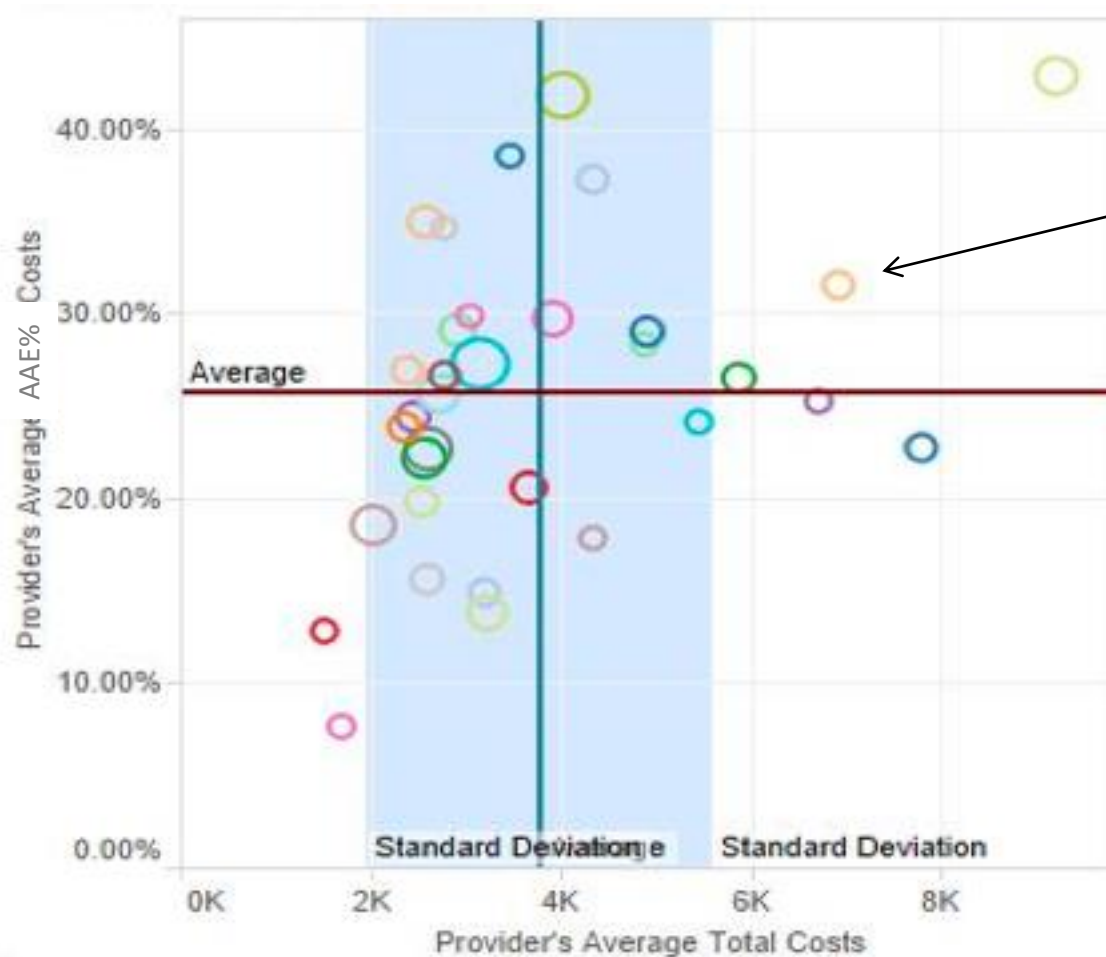
### Cataract Surgery



#### Unique insights from Analytics:

- The tail of the distribution is driven by Actionable Adverse Events (AAEs)
- The variation in Typical costs could be driven by price, or overuse & duplication of services stemming from fragmentation and lack of care coordination.

## Cost Quality Analysis at Provider Level



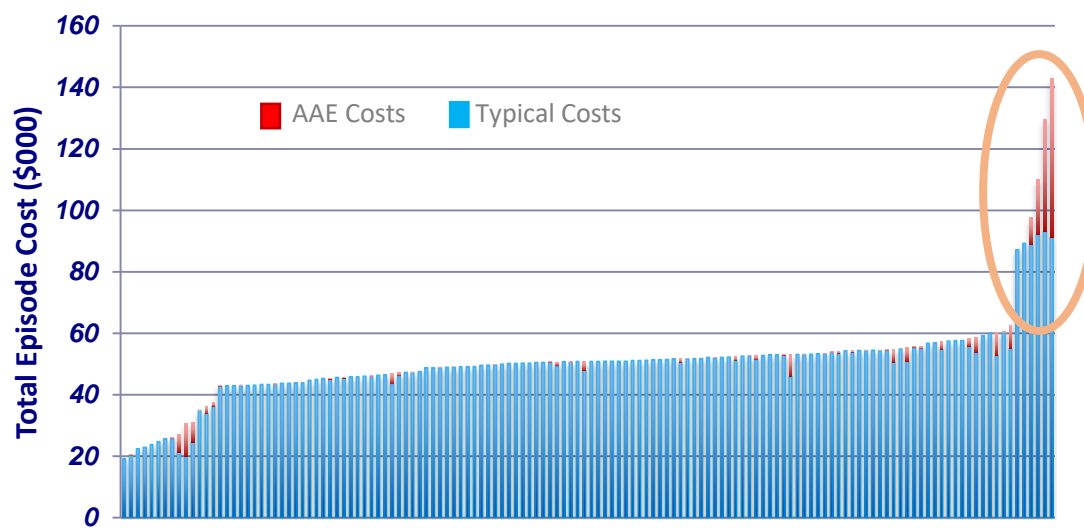
A provider may be an outlier on AAEs or episode costs or both

Drill down to provider's panel of patients to find patient level drivers



## Quality Improvement: Root Cause Analysis

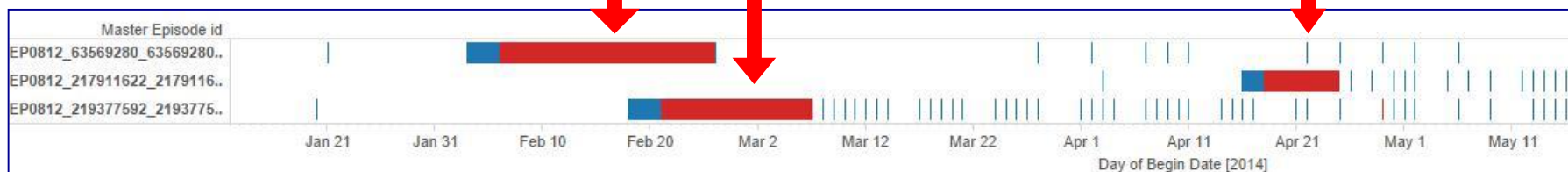
Outlier patients can have a big impact on performance and final budgets!



3 patients accounted for just 9% of Hospital B's total episode costs, but **53%** of total Actionable Adverse Event (AAE) costs...

...Each had a readmission with costs ranging from **\$18,000 - \$52,000**

**CABG Episodes Ordered By Total Episode Cost**  
Hospital B – CABG



## Cardiac Rehabilitation within 30 days of surgery

Cardiac Rehab reduces episode costs as well as Readmissions and AAEs - both after CABG and PCI

Procedure	CABG		PCI	
Cardiac Rehab	No	Yes	No	Yes
% of Episodes	92.8%	7.2%	90.5%	9.5%
Avg Episode \$	\$68,899	\$54,571	\$33,834	\$32,256
Avg AAE \$	\$15,880	\$9,306	\$5,433	\$2,898
AAE %	<b>5.4%</b>	<b>2.7%</b>	<b>16.1%</b>	<b>9.0%</b>
Readmission %	<b>12.0%</b>	<b>3.4%</b>	<b>10.1%</b>	<b>1.2%</b>

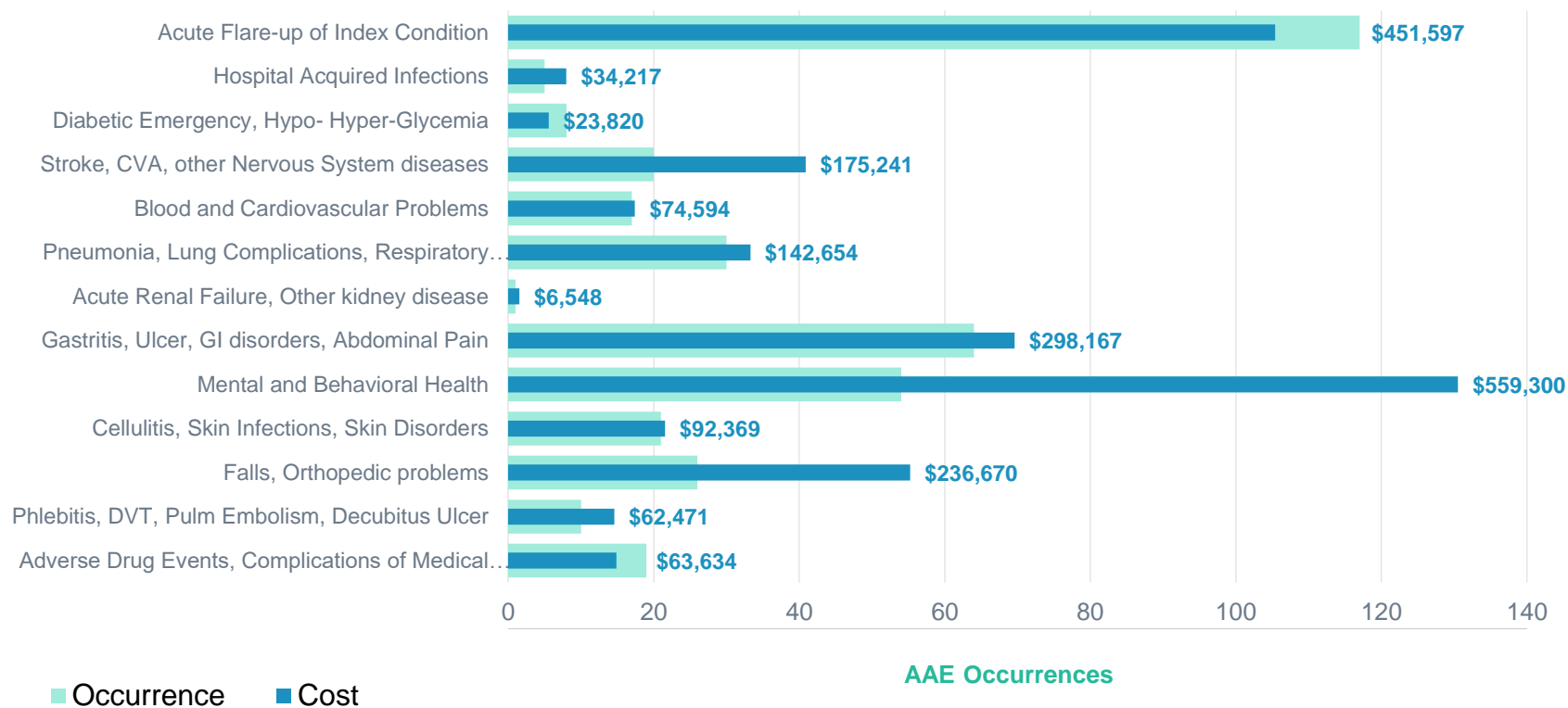
AAE = Actionable Adverse Events  
Source: Remedy's internal analysis

# Feedback Reports

# Real Time Performance: Drilldown for Hospital

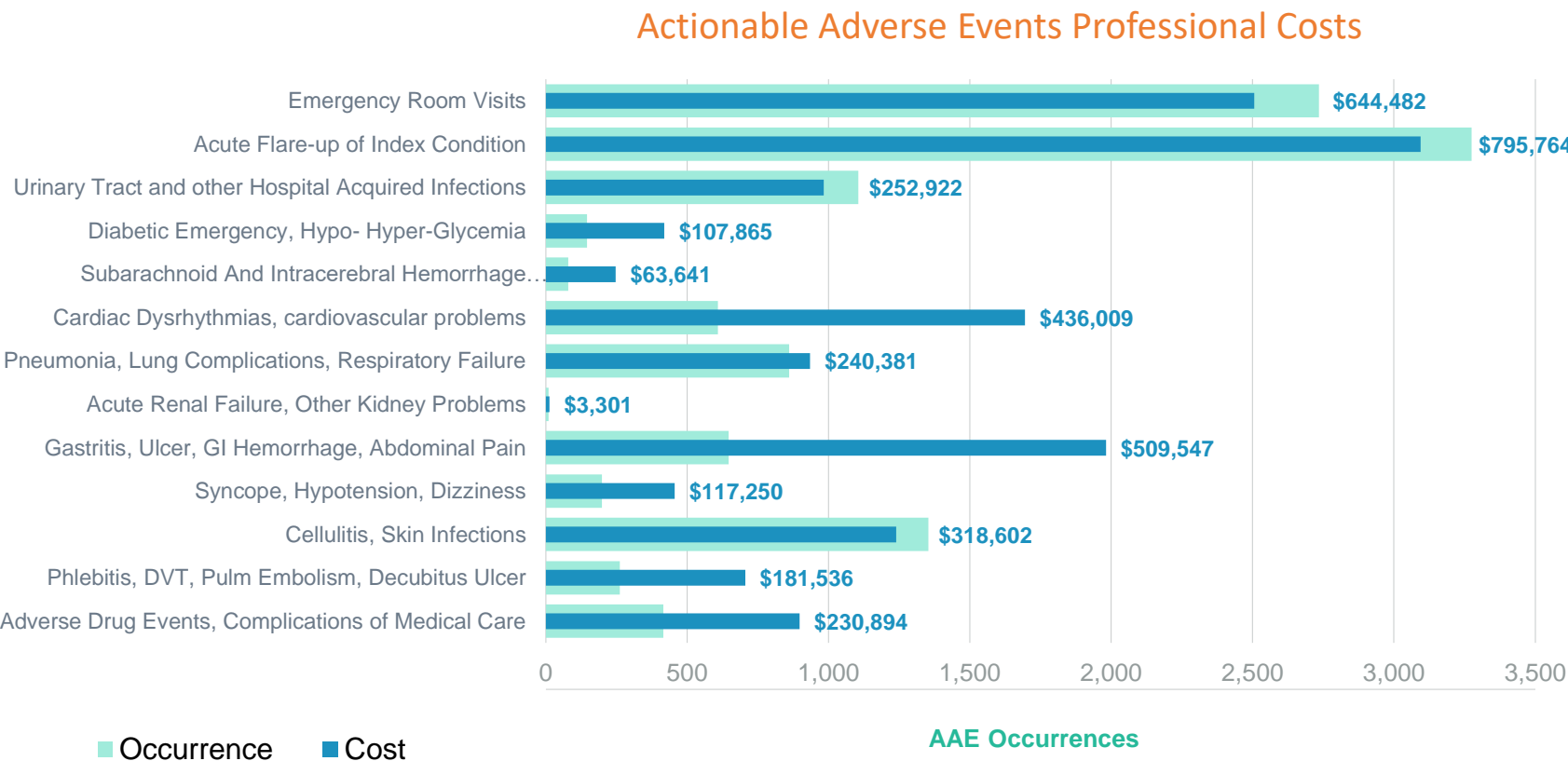
## Asthma Inpatient Complications

### Actionable Adverse Events Stay Costs



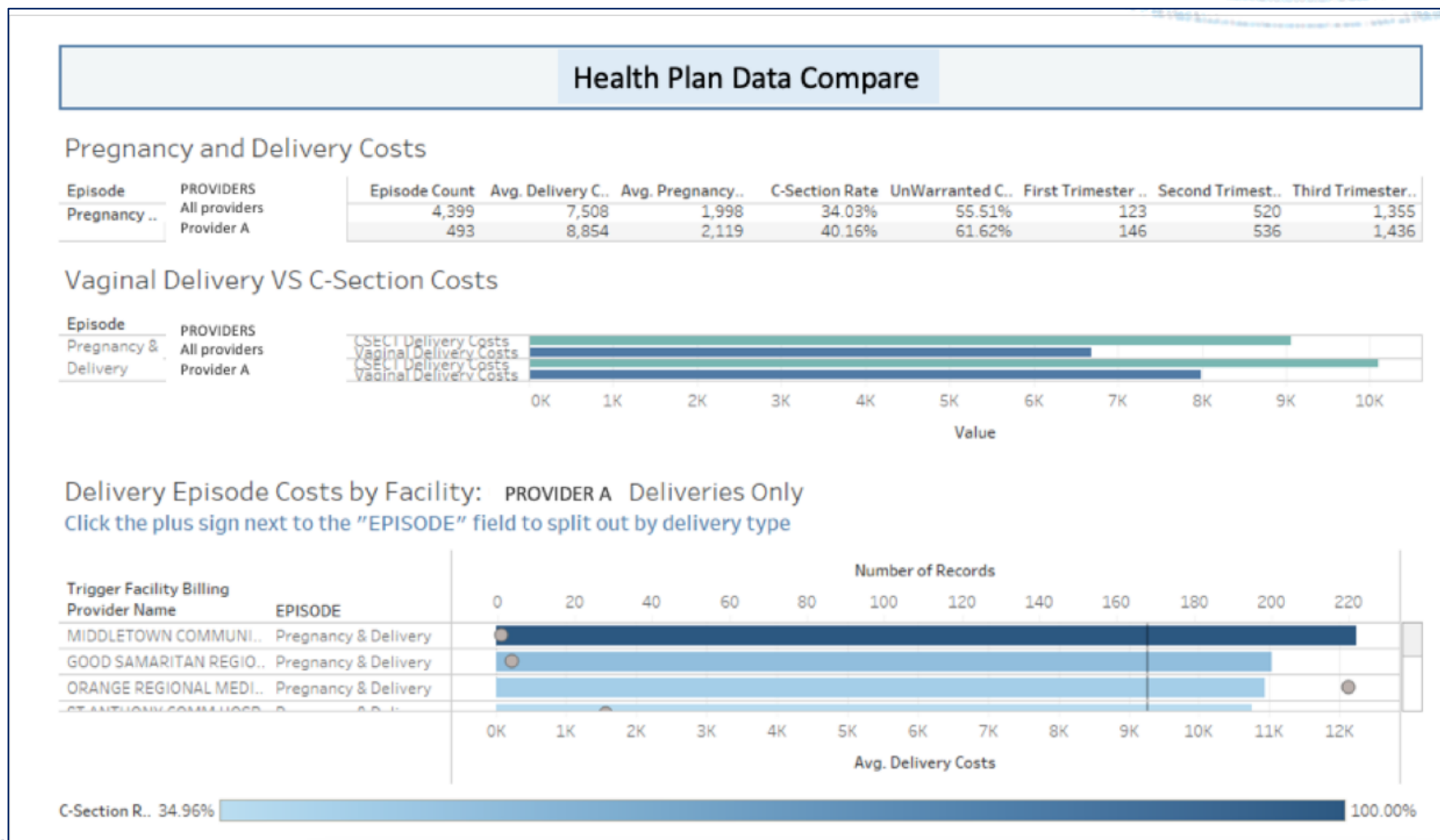
# Real Time Performance: Drilldown for Providers

## Asthma Professional Adverse Actionable Events (AAE)

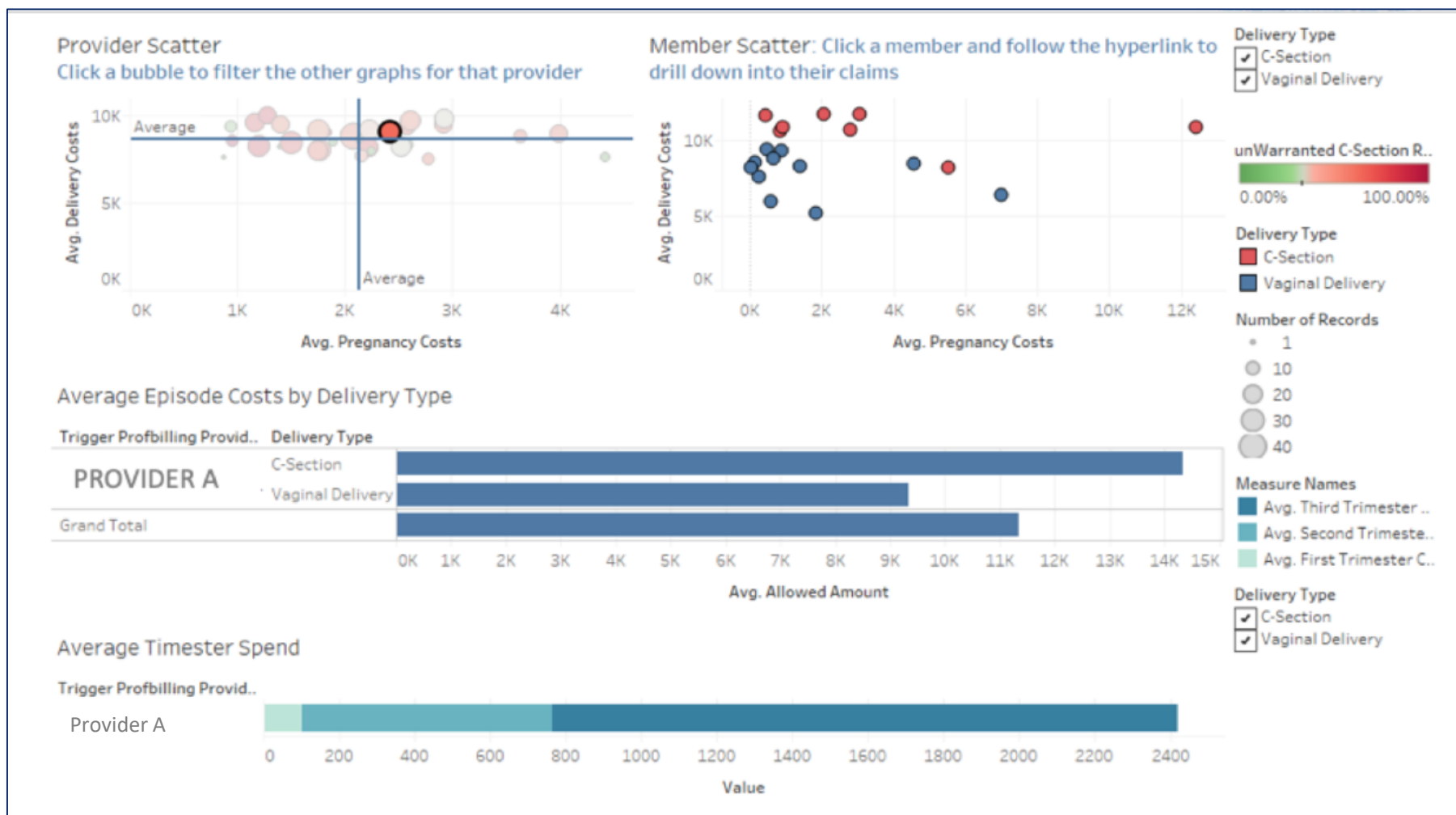




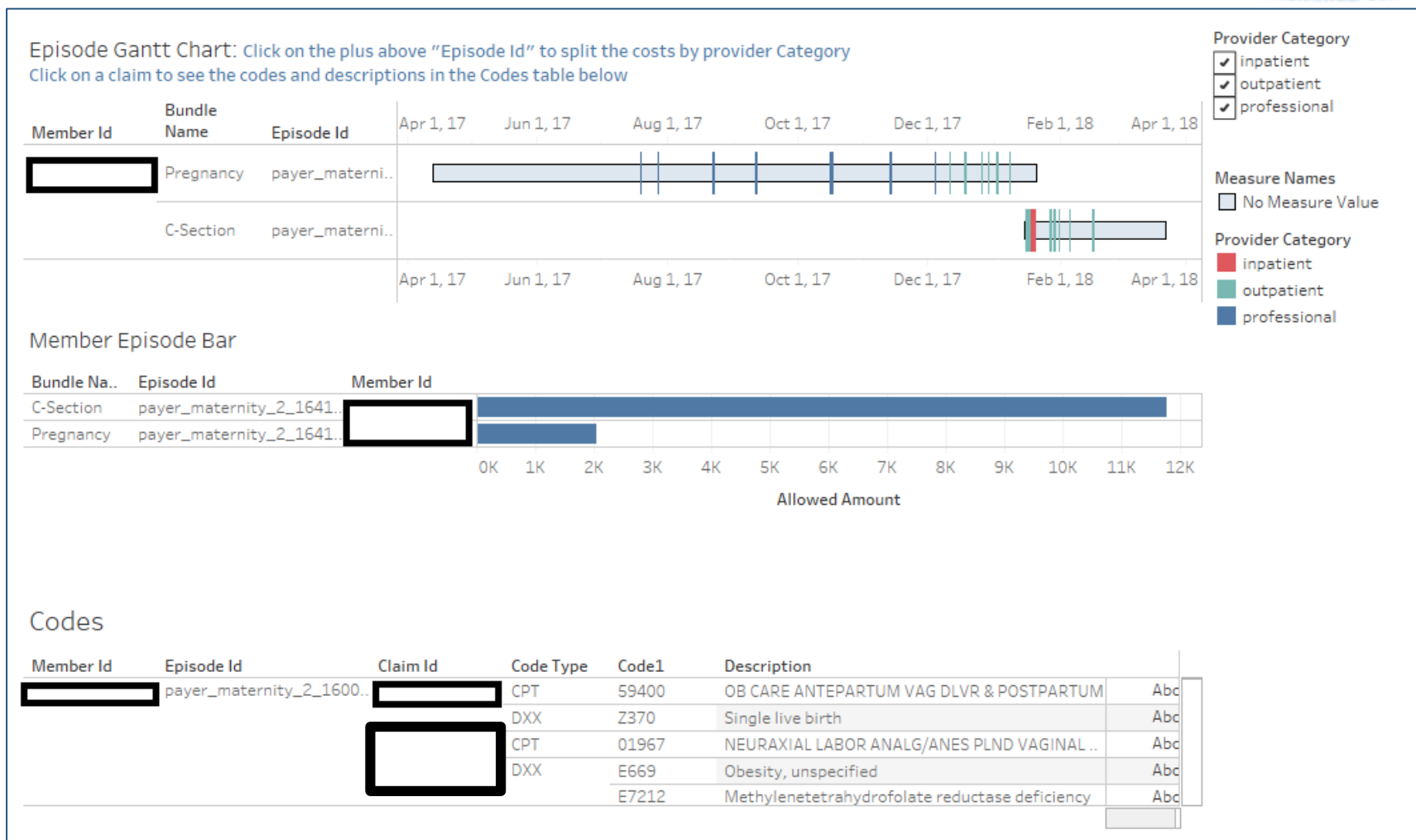
# Tableau Reports: Comparing Providers



## Tableau Reports: Provider Dashboard



## Tableau Reports: Member level drill-down



# Creating a program with levers of clinical and financial success

## Lever Development for Commercially Insured Health plans

- ✓ Identify high value providers to enter into risk bearing arrangements
- ✓ Identify patients “early” that are likely to begin an episode so we can steer these patients to high value providers
  - Prior authorizations – two way arrangements with health plans
  - Predictive data science
- ✓ Identify opportunities of clinical success – lever components
  - Ways to help providers “win” within a bundled payment contract
  - Ways to improve patient experience

## Identifying Opportunities by Looking for Variation in Episodes

Clinical and operational opportunities are identified by a high variation in cost and/or outcomes when looking at pain points throughout a patient's journey. We call clinical and operational opportunities Levers of Clinical Success. Levers of Clinical Success have three main components:

1

Levers must have an impact on cost and/or outcomes

2

Levers are able to be operationalized by clinical teams

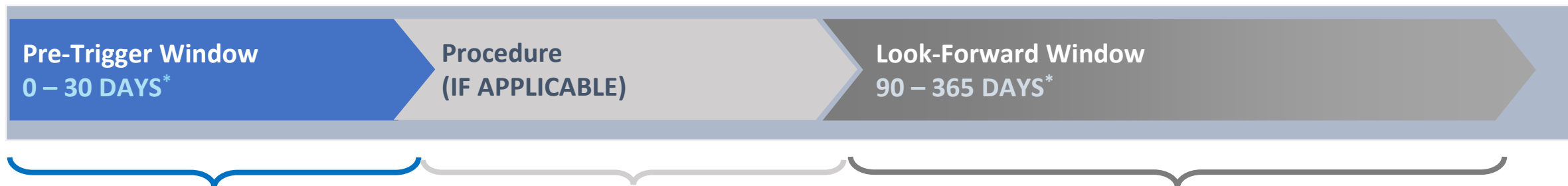
3

Levers must be measurable and trackable over time

### Questions to ask:

- Tests – are they required? (Choosing Wisely)
- Surgery – is it required? (Appropriateness of care)
- Co-providers / consults – which ones are necessary?
- Complications – which ones to focus on
- Site of care – which setting is most cost-effective
- Follow-up – modify care plan if outcomes not as desired

## Care Redesign: Levers of Clinical & Financial Success



### SOURCES OF SAVINGS

- Appropriate testing: Imaging, Stress testing, Echocardiogram etc.
- Appropriate care choice: Medical vs. PCI
- Appropriate choice of high value provider – high efficiency, high quality
- Site of care choice: inpatient vs. ASC

### SOURCES OF SAVINGS

- Procedure choice
- Device choice
- Choice of co-providers: anesthesiologist, infectious disease specialists, pulmonologists

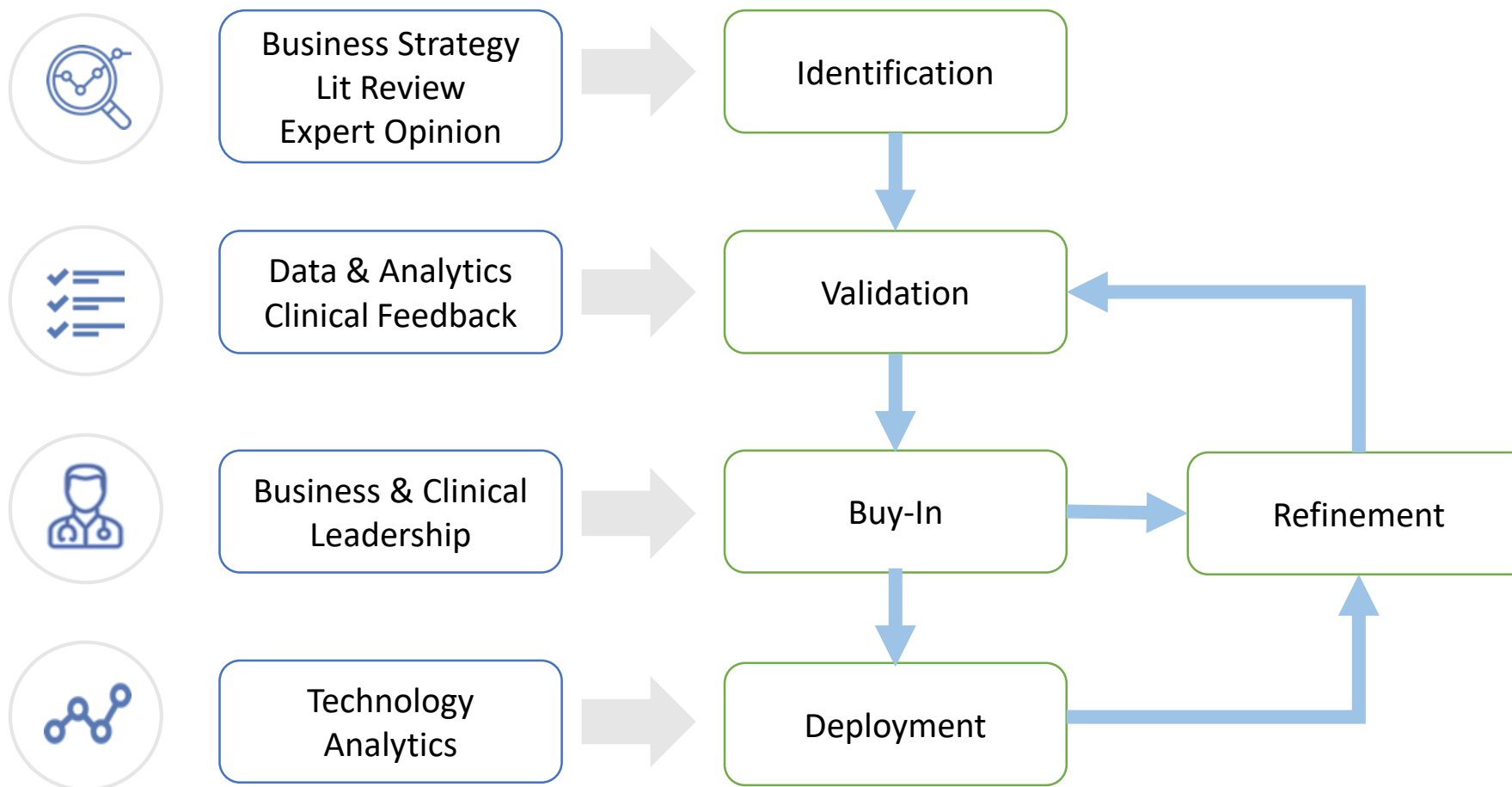
### SOURCES OF SAVINGS

- Reduced readmissions
- Reduced Actionable Adverse Events
- Appropriate choice of post-acute care provider
- Appropriate testing
- Care Coordination
- Medication choice and compliance

\*Episode Window length varies by episode

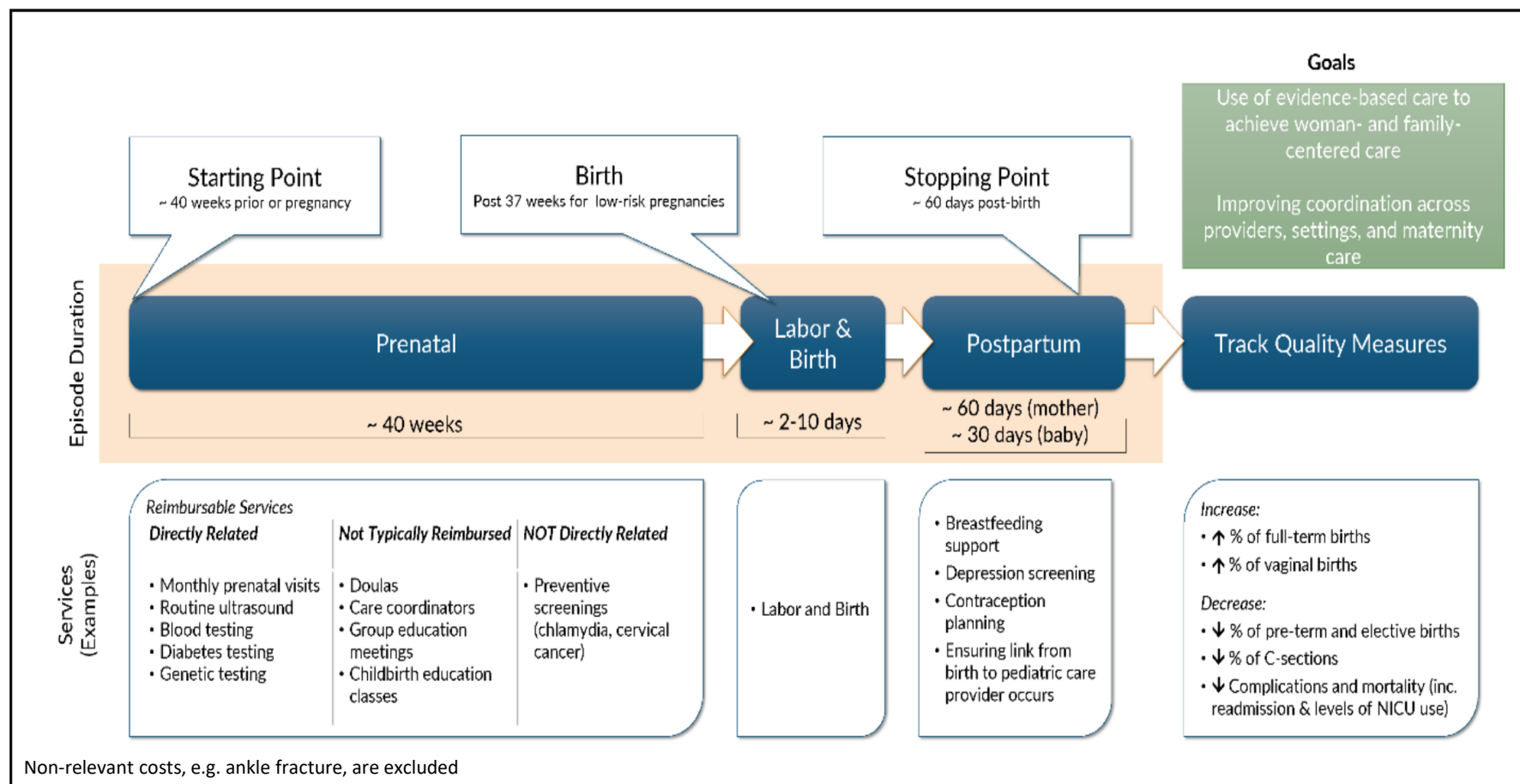


## Cycle of Development: From Lever Conceptualization to Deployment



# Development of Maternity Levers of Success

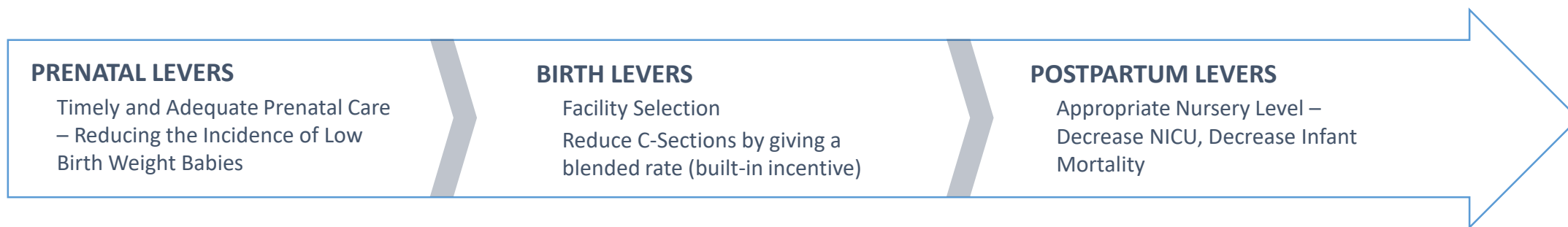
## Maternity Episode: From Womb to Crib A Bundle of Bundles



Reference: HCP-LAN: <http://hcp-lan.org/workproducts/cep-whitepaper-final.pdf>

## Global Maternity Levers

The Global Maternity Episode is 270 days long. The levers must enable OB/GYN to engage and achieve savings over the course of this long episode



- 1 Facility Selection
- 2 Shifting unwarranted cesarean to vaginal deliveries
- 3 Appropriate nursery level care
- 4 Early prenatal care – reducing low birth weight babies

EPISODES
<ul style="list-style-type: none"> <li>– Mother – prenatal</li> <li>– Mother – delivery</li> <li>– Mother – post partum (60 days)</li> <li>– Newborn – 30 days</li> </ul>

## Shifting low-risk cesarean deliveries<sup>1</sup> to vaginal deliveries

Data Summary	Output
Total Deliveries (inpatient triggered only)	18,578
Average cesarean delivery cost	\$11,789
Average vaginal delivery cost	\$8,338
Cesarean section deliveries (N, %)	7,320 (39.4%) <sup>2</sup>
Cesarean sections that were low-risk <sup>3</sup> (N, %)	1,844 (25.2%)
Total number of inpatient facilities	122

<sup>1</sup>Jolles DR <https://www.ncbi.nlm.nih.gov/pubmed/28132426>

<sup>2</sup>National C-Section Rates are 32% (CDC – 2017)

<sup>3</sup>ACOG criteria adopted to identify low-risk C-sections

Savings Opportunity	Output
Average dollars saved per episode per facility (IQR)	\$3,451 (\$2,333 - \$4,581)
Average Savings per Facility (IQR)	3.1% (1.6% - 4.0%)
Number of low-risk cesareans	1,844
Total potential savings <sup>1</sup>	\$6,363,644
Overall Savings (% of Total \$)	3.4%
Shift in C-Section Rates (current to new)	39.4% to 29.4% <sup>2</sup>

<sup>1</sup>Assumes all low-risk C-Sections could have been shifted to vaginal deliveries

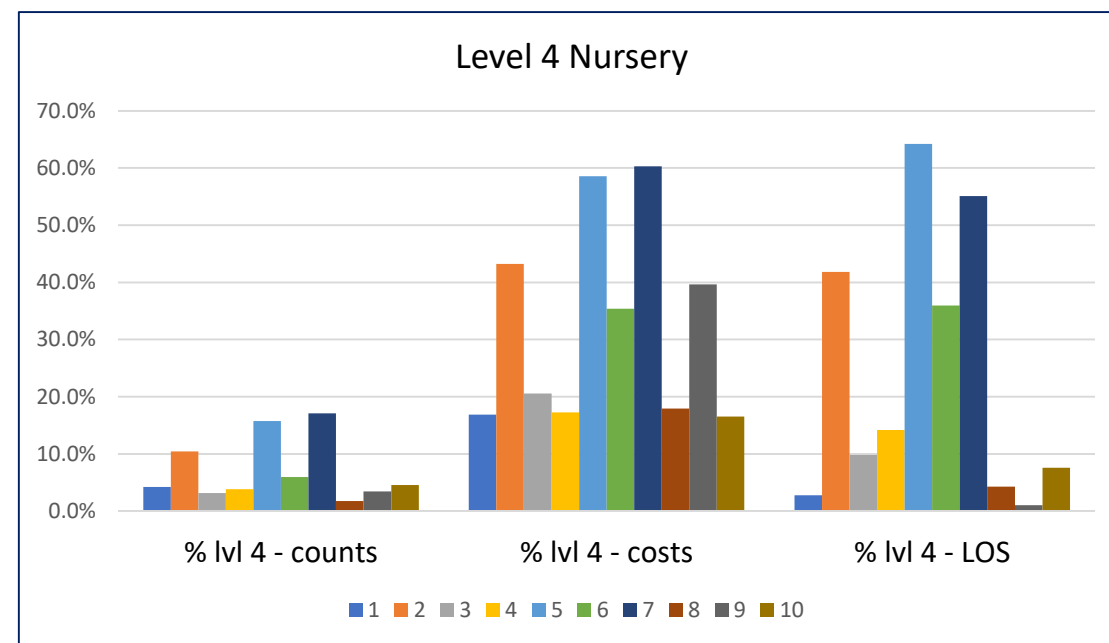
<sup>2</sup> Leapfrog target rates for NTSV (Nulliparous, Term, Singleton, Vertex) Cesarean births is 23.9% by 2020

## Variability in Level 4 Nursery Utilization: Newborn Lever

### Use of In-Appropriate Nursery Level Care

N=18,139*		Count	Level 1	Level 2	Level 3	Level 4
<b>Low Birthweight</b>						
	Very Extreme LBW (<500g)	15	40%	0%	7%	53%
	Extreme LBW (500-999g)	20	15%	0%	25%	60%
	Very LBW (1000-1499g)	22	9%	5%	23%	64%
	LBW (1500-2500g)	609	75%	5%	8%	12%
	Not LBW	17,473	93%	2%	2%	3%
<b>Prematurity</b>						
	Extreme prematurity (<26 wks)	97	29%	15%	32%	24%
	Premature (<36 wks)	243	51%	11%	15%	24%
	Full term	17,799	93%	2%	2%	3%

### Variability of Nursery Level 4 Utilization Across Facilities



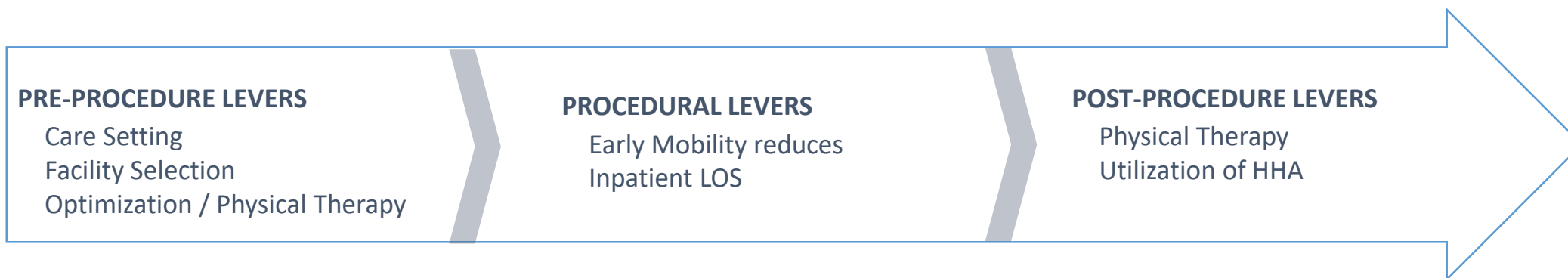


# Procedural Lever Development



## Orthopedic Levers

Orthopedic episode duration varies by episode Optimization and home recovery were important elements in determining the following:



- 1 Care Setting
- 2 Facility Selection
- 3 Early Mobility reduces Inpatient LOS
- 4 Physical Therapy Pre- and Post- Surgery

EPISODES
<ul style="list-style-type: none"> <li>– Knee Revision / Knee Replacement</li> <li>– Hip Replacement / Hip Revision (<i>not care setting</i>)</li> <li>– Knee Arthroscopy</li> <li>– Lumbar Spine</li> <li>– Lumbar Laminectomy</li> <li>– Shoulder Replacement</li> </ul>

## 1 Selection

Identify patients who will benefit from surgery.



## 2 Optimization

Prepare patient medically and functionally to ensure better outcomes and a safe home recovery.



## 3 Disposition

Manage expectations for home recovery. Utilize performance network as necessary.




## 4 Follow-Up

Manage comorbidities and reduce risk of readmission.



# Early Mobility Program

## Leveraged gap analysis and Early Mobility Program of the Ortho team


 **remedy partners**

**Acute Care Hospital - Early Mobility Gap Analysis:**

This is designed to assist in the development of an early mobility program by identifying gaps and providing potential solutions.

LEADERSHIP ENGAGEMENT		
How can mobility be incorporated at all levels for success of a program?		
Process	Opportunities	Action Steps
<b>Culture change</b> <input type="checkbox"/> Transition of Falls Team to Mobility Team <input type="checkbox"/> Educate staff to change perception that patients are too sick to mobilize <input type="checkbox"/> Educate staff to dispel the myth that patients need physical therapy for mobility <input type="checkbox"/> Preservation and progression of functional capacity and patient goals		
<b>Commitment at the following levels</b> <input type="checkbox"/> Organizational level <input type="checkbox"/> Unit level <input type="checkbox"/> Interdisciplinary team level		
<b>Identification of staff roles in early mobility program</b> <input type="checkbox"/> Unit champions, nursing, nursing assistants and therapy <input type="checkbox"/> Compliance monitoring to ensure follow through		
<b>Equipment inventory for patient and staff safe handling</b> <input type="checkbox"/> Specialty beds <input type="checkbox"/> Lifts and stand assist (mechanical, ceiling mounted/overhead vs mobile for dependent transfers to chair) <input type="checkbox"/> Gait belts available for staff in each room <input type="checkbox"/> Walkers, crutches, canes <input type="checkbox"/> Chairs <input type="checkbox"/> Portable O <sub>2</sub> tanks/ventilators		
<b>Patient education materials on benefits of mobilization</b> <input type="checkbox"/> Follow health literacy guidelines and teach back methodology <input type="checkbox"/> Engage patient in mobility goal setting		
ESTABLISHMENT OF A STANDARDIZED PROTOCOL		
How can an early mobility program be implemented?		
Process	Opportunities	Action Steps
<b>Interdisciplinary team participants</b> <input type="checkbox"/> Nursing <input type="checkbox"/> PT/OT <input type="checkbox"/> Physicians / prescribing clinicians <input type="checkbox"/> Respiratory therapy <input type="checkbox"/> Pharmacy <input type="checkbox"/> Environmental and facilities management/staff		

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ESTABLISHMENT OF A STANDARDIZED PROTOCOL (CONT'D)		
How can an early mobility program be implemented?		
Process	Opportunities	Action Steps
<b>Medical practices to reduce:</b> <input type="checkbox"/> Bedrest orders <input type="checkbox"/> Restraints <input type="checkbox"/> Tethers (i.e. urinary catheters, oxygen with short tubing) <input type="checkbox"/> Sedative use		
<b>Educational sessions</b> <input type="checkbox"/> Coached bedside walking rounds for mobility <input type="checkbox"/> Coached bedside walking rounds for ADLs		
<b>Safe patient handling</b> <input type="checkbox"/> Coach identified for lift/mobility education <input type="checkbox"/> Ergonomics education provided <input type="checkbox"/> Safe patient handling equipment available		
<b>Establish set requirements for adherence to new protocol(s)</b> <input type="checkbox"/> Follow up with daily huddles and staff counseling <input type="checkbox"/> Confirm staff mobilization competencies		
APPLICABILITY TO PATIENTS DURING HOSPITAL STAY		
What is required for daily workflow and success of a mobility program?		
Process	Opportunities	Action Steps
<b>Applicability to unit patients</b> <input type="checkbox"/> Physician understanding that their patients will be mobilized if they meet the current inclusion criteria <input type="checkbox"/> Responsible team member identified to mobilize and document <input type="checkbox"/> Tools/equipment familiarity with all staff <input type="checkbox"/> Compatibility with electronic record documentation <input type="checkbox"/> Standardized patient functional profile agreed upon <input type="checkbox"/> Exclusion criteria defined and clearly communicated to team e.g. ► Unable to awaken ► Chemical paralysis ► Active seizures ► Unstable fractures ► Agitation/distress/inability to follow instructions for safety ► RR > 30/min or < 8/min ► SpO <sub>2</sub> < 90% ► Acute cardiac arrhythmia ► Head injury with increased intracranial pressure		

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## Gap Analysis and Program:

- Developed by the Ortho Team

## Audience:

- Hospital clinical team and Surgeon

## Components:

- Communicate benefits of the program
- Identify gaps in existing early mobility practices and subsequently provides tools and education for success
- Assist providers in implementing an early mobility program

# Home Recovery Care Guidelines

## Home Recovery Care Guidelines (Spine, Shoulder, Knee) available in Episode Connect

### Home Preparation:

- Developed by our Ortho Team


### Audience:

- Home Health Agency

### Components:

- Assist HHA transitioning a patient from Hospital to Home
- Maximize benefits of home recovery
- Reduce Readmissions
- Educating HHA on optimal recovery of patients



 FEBRUARY 2017

These guidelines are optional and should be reviewed, aligned and modified as deemed appropriate by the physician. These guidelines are based on information current as of the date initially published. Remedy does not assume any responsibility to update these guidelines. These guidelines are meant to be informational and should not substitute for a clinician's individual judgment with respect to care for a particular patient. Remedy HPCI Partners, Inc. reserves all rights, title, and interest in the material and content, which are both the proprietary information of Remedy HPCI Partners, Inc. This document, including all material and content, is copyrighted and protected by international copyright laws and treaty provisions © Remedy HPCI Partners, LLC. All rights reserved.

## Care Guidelines for the Home: Total Knee Replacement

### Overview

The type of care patients can receive in the home has evolved and is customizable to patient need and circumstance. Home Health Agency (HHA) services, billed under Medicare part A, is ideal for many patients that have a skilled nursing need and would otherwise have gone to Inpatient Rehab Facilities or Skilled Nursing Facilities (SNF). HHAs can see these patients on the day of admission and as frequently as needed throughout an episode of care. Patients that do not require skilled nursing care can be treated effectively with physical therapy in the home under Medicare part A (HHA) or B. Nursing is duplicative unless there is a skilled nursing need.<sup>1</sup>

When ordering care in the home, please consider necessity of skilled nursing care, homebound status and anticipated number of therapy visits. See appendix for definition of homebound, skilled therapy and nursing services.

- > 8 visits, skilled nursing need, homebound - HHA
- 5-8 visits, no skilled nursing need, questionable homebound status - HHA or Part B in the home
- < 5 visits, no skilled nursing need, questionable homebound status vs. transportation challenge - HHA low utilization payment adjustment or Part B in the home
- Transportation or social challenges - Part B in the home

Recommend surgical follow up 2 weeks post-op for all patients to reduce unnecessary rehospitalizations and timely transition to outpatient services as needed.

#### CARE IN THE HOME

Start of care within 24 - 48 hours of discharge from Acute Care Hospital or SNE

In addition to assessing vitals, neurovascular checks of affected extremity and medication reconciliation:

- Monitor and continue education from ACH/Orthopedic Surgeon utilizing teach back method to assess response to training on:
  - Signs/sx of DVT/PE/Infection and bleeding related to anticoagulation therapy
  - Precautions
  - Bowel regimen
  - Edema control including sequential compression devices/TEDs
  - Spirometry

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## Summary & Conclusions

### Catalyzing Care Redesign & Process Re-engineering

- ✓ **Bundled Payments through Shared Savings**  
**Creates an atmosphere of cooperation between payer and provider without shifting insurance risk to provider**
- ✓ **Two-sided risk arrangements**  
**Brings providers skin in the game creating a strong incentive to find inefficiencies in care**
- ✓ **Identifying levers of clinical & financial success helps providers win**  
**Reduce ED visits, readmissions, actionable adverse events, find efficiencies, shifting care to low cost options, care redesign, process re-engineering**
- ✓ **Fueling intrinsic incentives drives change**  
**Feedback reports, dashboard of all patients, improvement over time, peer comparisons, benchmarks**

## W. Edwards Deming



- ✓ When people and organizations focus primarily on quality, quality tends to increase and costs fall over time.
- ✓ When people and organizations focus primarily on *costs*, costs tend to rise and quality declines over time.
- ✓ “In God We Trust...All Others Bring Data”

