

### Opportunities and Risks in Bundled Payment Episodes When You've Seen One, You've Seen One

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Slide 1		
JWP1	Data is from \\DISKSTATION1\Encrypted\Montefiore\Models Jon Pearce, 5/7/2017	
JWP2	JP_Montefiore_BPCI_360_v116_Oct2014B_XL2013.xlsx Jon Pearce, 5/7/2017	

### Medicare Bundled Payment Episode Types

#### **Joint Replacement**





#### Acute Myocardial Infarction



# Today's Session



Jon, MBA

Lindsay, MD



Describe the risk and opportunity profiles of various types of episodes Describe the differences in care management strategies among different types of episodes

# **Characteristics of Episodes**



Occurrence of train-wreck cases

## **Opportunities and Risks**

- Ability to manage post-acute institutional cost
- Ability to manage readmissions

Opportunities

 Unmanageable inherent inter-episode cost variations

• High variation due to low volumes

Risks

- Frequency of extremely high-cost cases
- High index admit cost

# **Risk and Opportunity Metrics**

# Percent PACPercentInstitutionalReadmissions

"Discount funding" percentage

Low-volume variation

# **Coronary Artery Bypass Graft**



## **Acute Myocardial Infarction**



## **Cost Components of Episodes**



Index Admit Professional PAC Instutitional Readmission HHA Other

# **Covering the Discount**



# **Episode Volume Affects Variation**

**Relative Episode Volume** 



Acute myocardialCoronary artery bypassMajor joint replacementPercutaneous coronaryinfarctiongraftof the lower extremityintervention

# **Cost Variation Among Episodes**



Acute myocardial infarction

Coronary artery bypass graft

Major joint replacement of the lower extremity

Percutaneous coronary intervention

### Why Quarterly Episode Cost Variation is Bad

Unpredictable financial results

Possible cash flow issues

Inability to measure effectiveness of clinical measures

### **Cost Variance by Episode Volume**

#### Average Episode Cost Coefficient of Variation Over Time



### **Small Population Creates Wide Cost Variations**



# Variation = Opportunity or Risk



#### Opportunity

- Manageable
- Predictable
- Planned
- Care plans exist

#### Risk

- Random
- Unmanageable care plans ineffective
- No care plans exist

## How To Make Money in MJR Episodes



## How to Make Money in AMI Episodes



## This is the end of Jon's slides

### Drivers of variation in cost differ by condition



PCI





#### For AMI and PCI, readmission is the dominant driver of variation in cost



# For major joint replacement, post-acute care use is the dominant driver of variation in cost



#### **SNF Use**

# For CABG, variation in cost is driven by both readmission and post-acute care use.



# Reducing post-acute care costs and readmissions overlapping yet divergent strategies



#### To reduce post-acute care costs, follow three rules



# Reduce use of PAC services: for many conditions, discharge to home is not just cheaper, it has better outcomes



Rissman, C. M., Keeney, B. J., Ercolano, E. M. & Koenig, K. M. J. Arthroplasty 31, 36–41 (2016).
 Bini, S. A. et al J. Arthroplasty 25, 114–117 (2010).
 Keswani, A. et al. J. Arthroplasty (2016).

### Shift to lower cost sites of service.



#### Refer to high value providers: develop a high-value postacute network.

Select service providers based on shared goals and performance

Develop care pathways for post-acute care

Monitor performance on cost, quality, and patient experience

Hold partners accountable to outcomes

### Characteristics of post-acute care management

Characteristic	Quality
Time period of intervention	Short
Concepts to discuss with patient	Few
Stakeholders to coordinate	Few
Variation in episode characteristics	Uncommon
New staff required	None or few
Effect of intervention	Large

### Readmission interventions occur across the episode

Pre- discharge	<ul> <li>Patient education</li> <li>Discharge planning</li> <li>Medication reconciliation</li> <li>Schedule follow-up appointment before discharge</li> </ul>
Post- discharge	<ul> <li>Timely PCP communication</li> <li>Follow-up telephone call</li> <li>Timely follow-up visit</li> <li>Patient hotline</li> <li>Home visit</li> </ul>

# Readmission interventions require coordination with multiple stakeholders

Patient Caregiver

Physician groups Neighboring hospitals Neighboring healthcare facilities

# Reducing readmissions requires multiple interventions and ongoing vigilance

6 strategies associated with lower readmission rates in heart failure:

- 1. Having nurses take responsibility for medication reconciliation;
- 2. Arranging follow-up appointments prior to discharge;
- Having a process in place to send all discharge papers or electronic summaries directly to the patient's primary physician; and
- 4. Assigning staff to follow up on test results that return after the patient is discharged.
- 5. Partnering with community physicians
- 6. Partnering with other local hospitals



Source: E. H. Bradley, L. Curry, L. I. Horwitz et al., "Hospital Strategies Associated with 30-Day Readmission Rates for Patients with Heart Failure," *Circulation: Cardiovascular Quality and Outcomes*, July 2013 6(4):444–50.

# Reducing post-acute care use and readmissions have different characteristics

	Post-acute care	Readmissions
Time period of intervention	Short	Entire episode
Concepts to discuss with patient	Few	Many
Stakeholders to coordinate	Few	Many
Variation in episode characteristics	Uncommon	Common
New staff required	None or few	Some to many
Effect of intervention	Large	Small

# Take-Away Points

#### **Major Joint Replacement Episodes**

- Major strategies:
  - Protocol for PAC setting
  - Effective PAC network
- Implemented globally
- Implemented by admin/finance staff
- Success rate high
- Cost relatively low

### **MRJ** Episodes

#### **Cardiology Episodes**

- Major strategies
  - Readmission reduction
  - Patient-specific PAC selection
- Implemented for individual patients
- Implemented by physicians and other clinicians
- Success rate marginal/variable
- Cost high
- Cardiology episodes

## Take-Away Points

#### **Major Joint Replacement Episodes**

- Low variation
- High PAC utilization
- Low Readmissions
- Few high-cost episodes
- Consistent care protocols
- Lower-cost management

#### **Cardiac Episodes**

- AMI-high variation
- PIC/CABG-very low variation
- High readmissions
- Occasional high-cost episodes
- Highly-varying patient needs
- Costly care management

### **MRJ** Episodes

### Cardiology episodes

### **Questions**?

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