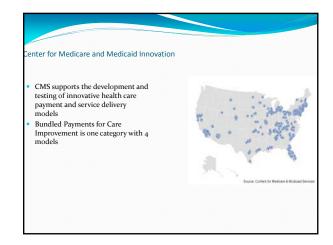
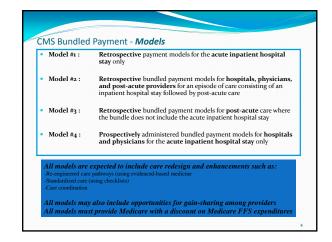
Bundled Payments for Care Improvement Joint Replacement

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CMS Bundled Payment - Models Payment of Bundle Acute Care Hospital Stay Only Acute Care Hospital Stay plus Post-Acute Care Post-Acute Care Chronic Care Model #1 Model #2 Model #3 Prospective Model #4 = Current Program Initiative = Future Program Initiative



BPCI Model 2

- 2012 CMS initiated a bundled payment development program in which organizations could propose bundled payment initiative
- January 2013 CMS opened a phase 1 no risk analysis period. CMS provided clinical episode definitions and claims data to be used for analysis
- Phase 2 is a three year agreement with CMS. Participants can enter in two waves, August 1 or November 1 2013
- Another phase 2 opportunity was available for 2015
- HHS can implement bundle payments without congressional approval as part of ACA

BPCI Model 2

- Model 2 is a retrospective reconciliation of claims paid for specific clinical episodes(DRG) by CMS compared to a target price. The target price is for claims paid from hospital admission through 90 days after discharge. This includes claims paid to physicians and post acute care
- During the contract period reconciliation will occur on a quarterly basis



High-Level Findings

- Substantial random variation in average episode price
- · Results in both gains and losses
- · Variation declines with episode volume
- Winsorization reduces year-to-year price variation
- · Impact is greatest for low volume providers
- Impact is greatest for chronic versus procedural episodes
- Selecting high degree of protection (75%/5%) reduces risk but also limits potential gain under BPCI

Risk Tracks

• Hospitals must choose one of three risk tracks:

	A	В	C
Upper Percentile	99th	95th	75th
Lower Percentile	ıst	5th	5th

- Risk corridor thresholds set at the national level;
- Hospital are responsible for 20 percent of payments above the high-end threshold for a given risk track.

Models 2 & 3 Target Price Calculation

- Calculate performance period target prices by applying a national MS-DRG-specific trend factor to the baseline price and then applying the CMS discount percentage
 - Calculate trend factor as mean national performance period episode case cost divided by mean national baseline period episode case cost
 - Quarterly changes in the trend factor currently uncapped
- Target prices include direct adjustments for key payment policies like Hospital Readmission Reduction program

Models 2 & 3 Financial Risk

- If NPRA > o, CMS will issue payment to the Awardee
- If NPRA < 0, CMS will send a demand letter to the Awardee
- Perform initial reconciliation with 5 months claims
- Perform 3 quarterly true-ups to account for net change to NPRA

10

Downside Risk Example

Awardee Convener XXXX-001		
	N	PRA
	w/Downside Risk	w/o Downside Risk
Episode Initiator XXXX-002	-\$150,000	\$0
Episode Initiator XXXX-003	\$250,000	\$250,000
w. s. d	6400 000	ć250.000

Key Elements of Agreement

- 3 year agreement starting January 1,2014. WDH can opt out at any time with 60 days notice
- Includes only Medicare beneficiaries with Medicare part A&B for specific DRG's
- Waivers such as removing the 3 day stay requirement for SNF and gain sharing are included to assist in the care redesign and shared risk
- Waiver for beneficiary incentives
- Stroke and joint replacement

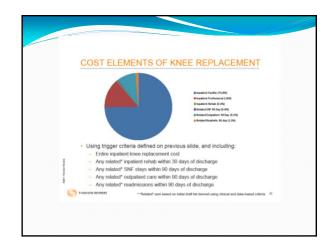
How We Got There

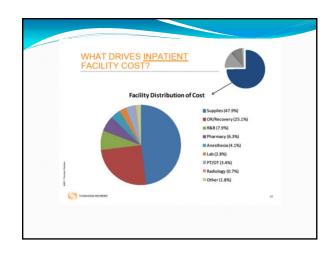
- 2012 participated in simulation bundle payment project Thompson Reuters/VHA
 - Commercial claims data
 - · Cohort of 9 hospitals in US
 - Began care redesign efforts for joint replacement
- 2013 phase 1 participation in CMS BPIC
 - 3 years claims data for analysis

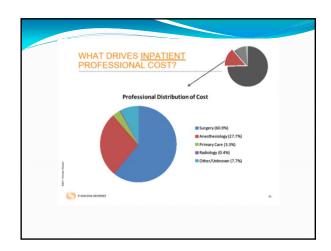
 - Joined Compass Group
 Brandeis/Estes Park
 - Horty/Springer Law Firm Cohort of 9 hospitals
- Signed agreement with CMS to enter phase 2 January 1,2014
 - Continue work with Compass Project

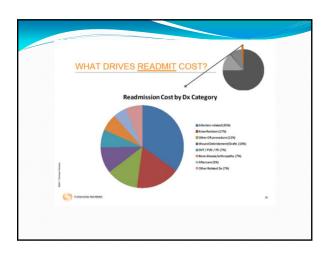
Final Simulation Bundle Commercial Data Thompson Reuters/VHA

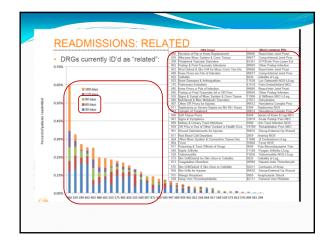
- Included Care:
 - -Pre-admission care within 30 days of admission for specific procedures with related diagnoses
 - -Entire inpatient knee replacement admission
 - -Inpatient rehabilitation with related Dx within 30 days of discharge
 - -SNF with related Dx within 30 days of discharge
 - -Outpatient care within 90 days with related Dx for specific categories (PT/OT, radiology, lab, major procedures, home health, DME, and why related the specific specific specific procedures.) physician visits)
 - -Readmissions within 30 days with related DRG
 - -Readmissions within 90 days for related DRG w/review*
 - -Revisions within 180 days

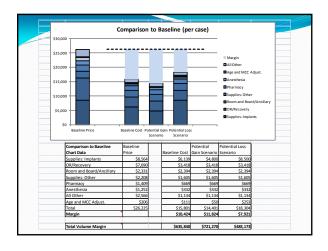


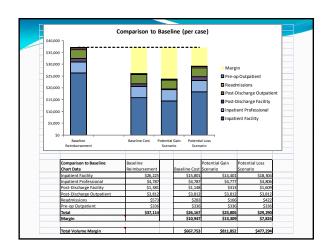












Medicare Claims Data Joint Replacement Lower Extremity • DRG 470 • Post acute care accounts for 50% of claims cost • Readmissions 4% of mean cost per case • SNF and HH 33% of total mean cost per case

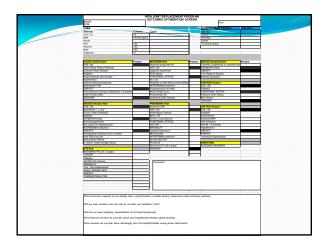
Care Redesign Preop screen Prehab · Patient communication of post discharge expectations · Home safety evaluation · Criteria based discharge Home aid provided as needed to get home health/OP vs SNF/rehab • Med Minder provided as needed • Transportation to MD appointments · Pathway/protocol developed for SNF and HH Follow up by care coordinator with PAC providers and WHP care managers, access to Nexgen Bundled payment data collection form that follows patient throughout episode · Common communication document for all PAC provider DRG 470/469 includes hip fractures that require implants

wa	V III	cen	tives		
 	,	•			
	Dollar value of individual Item or	Criteria for beneficiary eligibility	How will you measure whether beneficiaries have	Clinical goal of the incentive	
	service (\$)	to receive the incentive(s)	met the criteria?	item or service	
Nome Safety Evaluation	5200	Incentive(s) Patients fiving in own home. Evaluation will be provided during the hospital stay prior to discharge.	Chart audit	Improved patient safety; reduce readmissions; transition to lower acsity post acute care aposider.	
Framportation	\$50	Patients with no other transportation options. Patients with driving restriction.	Chart audit	Improved compliance with follow-up care with physicians and rehab providers.	
	\$40 - 60 / month (for up to 90 days post acute discharge)	Moderate to severe cognitive impairment. History of poor medication compliance. Multiple medications and no caresiver.	Medication compliance data from unit. Number of patients eligible for med minder who actually received/used.	Improved medication compliance.	
	\$20-25 / hour (range from 2 – 24 hours – based upon patient need)	Homebound or safety risk patients needing mobility assists. Medically and functionally stable.	Case managers / rehab personnel to determine safety functionality prior to discharge.	Remove socio- economic barriers to receiving care at home.	
Health club membership	\$ 60 for 60 days	All bundled patients.	n/a	Promote Ifelong healthy Ifestyles	

Standardization Implants to one vendor 85% Negotiated volume discount Utilization of nerve blocks Neduce fall risk to get u day of surgery No consequence are blocks Encourage ambulation Encourage ambulation Encourage ambulation DVT prophylaxis Improved utilization of mechanical All surgeons using same pharmacological approach Blood management program TXA Collection of functional outcome measures Oxford knee and hip scores Oxford knee and hip scores TUG Preop chlorhexidine preperation Home night before and day of surgery Operative site at hospital 3M skin and nasal antiseptic

DVT Pharmacological

- The default pathway will be ASA 325mg po bid starting the day after surgery.
- Patients who are at higher risk of thromboembolic event will get Xarelto 10 mg po bid starting the day after surgery. This includes prior history of DVT within 5 years, any history of PE, known hyper coagulable state, malignancy, people with afib who are not on coumadin.
- Patients who are already on Plavix and ASA will resume ASA the day after surgery and Plavix at the time of discharge.
- Patients who are on chronic Coumadin therapy will start Lovenox the day after surgery and continue until Coumadin is therapeutic.
- Hip fractures will also default to ASA due to fall risk unless any of the other criteria above exist.

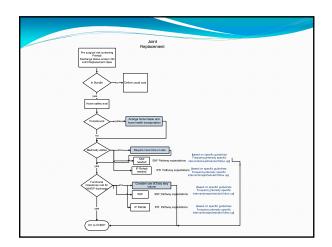


Prehabilitation

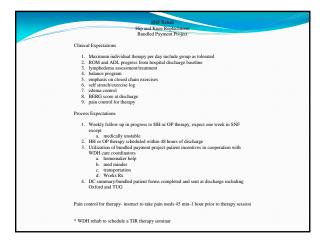
- "Prehab"
- MD order for PT prehab evaluation
- Examination of the patient's level of pain, ROM, strength, balance, and mobility
- Individualized program for Prehab based on findings

Communication

- Established dedicated contacts with PAC providers
- Key providers physician champions
- Stroke and JR Program Managers
- Acute care staff
- WHP Care Managers
- Bundle Experience Form
- Transition of Care Form







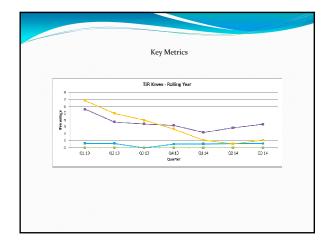
How Hostin Hip and Kang Replacement Bundled Payment Froject Clinical Expectations 1. Daily therapy 2. ROM and ADL progress from hospital discharge baseline 3. lymphedem assessment/reatment 4. balance program 5. emphasis on closed chain exercises 6. self stretch/exercise log 7. edema control 8. ground the stretch/exercise log 9. edema control 9. pain control for therapy Process Expectations 1. weedily follow up in progress to OP therapy or discharge, expect one week in HH for majority of patients. 1. weedily follow up in progress to DP therapy or discharge, expect one week in HH for majority of patients. 2. OP therapy scheduled within 48 hours of discharge 3. DC summary bundled patient forms completed and sent at discharge including Oxford and TUG 4. DC with no OP therapy a. Kaese flexion = 120 dog, ext = 5. Hip functional range within precautions in the complete of the complete

Early high-intensity rehabilitation following total knee arthroplasty improves outcomes Conclusion: "A HI program leads to better short- and long-term strength and functional performance outcomes compared to a lower intensity rehabilitation program. The HI program did not impair knee ROM and did not result in any musculoskeletal injuries in this small group of patients"

High-Internity Muhalifization Program Prizes J (Westo D.) Standing bladers and prize with prize of the Standing bladers and entires. Standing bladers are demonstrate Standing bladers and entires with being freed to 45° and less found Standing bladers and entires and demonstrate purpose. Fingers and the Standing bladers are demonstrate when being purpose. Prizes a Standing bladers are demonstrate when being purpose. Prizes a Standing bladers are demonstrated by the Standing bladers and prize of the Standing bladers and prize of the Standing bladers and prize of the Standing bladers and prizes are been bladers and prize of the Standing bladers and prizes are been bladers and prize of the Standing bladers and prizes are been bladers and prize of the Standing bladers and prizes are been bladers and prize of the Standing bladers and prizes are been bladers and prize of the Standing bladers and prizes are been bladers and prize of the Standing bladers and prizes are been bladers and prize of the Standing bladers and prizes are been bladers and prize of the Standing bladers and prizes are been bladers and prizes and prize of the Standing bladers and prizes are been bladers and prize of the Standing bladers and prize are been bladers and prize and prize are been bladers and prizes are been bladers and prize are been bladers and prizes and prize are been bladers and prizes are been bladers and prizes are and where the prize and prizes are and where the prizes are all prizes are and where the prizes are all prizes and prize are and where the prizes are all prizes are and prize a

Metrics

- Cancellations of surgery 1 week or less prior to surgery date due to medical status
- Surgical site infections within 90 days
- DVT/PE within 90 days
- Unplanned readmissions within 90 days
- Reoperations within 90 days due to infection
- Reoperations within 90 days any reason
- Length of stay
- Mechanical complications within 90 days
- Functional outcomes



Bundled Payment Episode Experience Form							
Patient Name:	Patient Name:			DOB:			
Criteria	Baseline	Acute	Inpt or Rehab	Home Health	Outpt	Home	
Facility Name		WDH					
Admission Date	N/A						
Discharge Date	N/A						
Admitting Dx							
# Co-Morbidities (partieur to this administrationary)							
Discharge Destination	N/A						
*Cognitive status/ Communication deficits // Frequency							
**Ambulatory status / Assistive devices							
***ADL status							
Diet / fluid restriction							
++ Home support situation							
^^ Frequency of Home Support							
SCORE KEY	SCORE KEY						
Frequency of Cognition Ios **Ambalancy Status - 1 = Independen ***AOL Status - 1 = Independent / M Hismo Support Stration 1 = I **Frequency of Humo Support 1 = J	*Cognitive States - 1 - Abert & Crismad - 2 - Depressed 3 - Frageful! Confusion 4 - Austines Fragerical (*Cognitive States - A - Crismat & S. Sevant Bases per day (*C. *Westley*) Ds. In new standards Fragerical (*Cognitive States - A - Crismate & S. Sevant Bases per day (*C. *Westley*) Ds. In new standards ***ARS States - In Indianal Medical Balanghard - Medical Balanghard - Medical Balanghard Medical Balanghard - Administration of Assistant size of Assis						
Co-Modulities Diabens HTN	COPD CI ligh Cholesteol C	EF AFb C	AD Acute Resal Fai	lum Circle Cities	Sing Disorder		
Incentive or services offered:	componerios E	Medication Minds	er 🗖 Homemsker/Co	reperior C	WORKS member	dip	

Bundle Episode Experience Forms

- Second quarter 2014
- Total of 49 collected on JR patients
- Patients with 2 or 3 comorbities represent 52% of JR
- 90% cognitive score of 1(alert & oriented)
- 60% lives with another person
- 28% have round the clock frequency of home support

Reconciliation Results

- October 2014 first official claims reconciliation by **CMS**
- Reduced SNF LOS by 50%
- Net reconciliation positive \$s
- Highest reconciliation amount out of cohort group
- A lot of discussion on calculation of target pricing by
- Large participants had significant losses and CMS altered NPRA to upside only for 2014

Keys To Success CMS Bundle Payments Joint Replacement

- Establish organizational leader that will implement program and culture of accountability for patients throughout the episode
- Engage key providers and share data
- Need cost accounting system for internal cost savings measures
- Engage post acute care facilities early and be honest about financial implications
- Develop communication network across all care providers including data transfer infrastructure
- Use data and best practices to develop comprehensive care redesign continuous process
- Develop data collection and interpretation system
- Use established joint replacement committee and PI for bundle

Next Steps

- Connect claims data with clinical data population health
- Correlate patient satisfaction/outcomes/cost (triple aim)
- Continue shift of patient discharged directly to home and OP therapy
- Refine utilization and construct validity of preop screening
- Improve functional outcomes data collection efforts
- Explore utilization of AM-PAC and LACE tools for discharge planning
- Analyze gainsharing opportunity
- · Exploring more episodes in addition to joint replacement and
- Determine effect on MSSP and ACO
- Expect bundle payments to become payment system in future