



Episode Definitions: What you need to know for the Bundled Payments for Care Improvement Initiative







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Webinar

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AGENDA

- Bundled Payment Strategic Opportunities
- Episode Definitions in Bundled Payments for Care Improvement (BPCI)
- Chart Books
- Questions
- Upcoming Dates



Bundled Payment for Care Improvement

Speakers

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Program Team

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Thank You

Thank you for your interest in partnering with the Innovation Center and CMS to help redesign care, improve quality and reduce costs across our country.



Webinar Purpose

- Emphasize the strategic opportunities for care redesign through bundled payments
- Clarify episode definitions for BPCI in response to numerous questions and existence of alternate definitions in the commercial and academic sectors
- Describe a resource that the Innovation Center has made available (Chart Books) and how it relates to this program



Our Goal: The Three-Part Aim

Better care Lower costs Better health through improvement For all **Americans**

The Role of Bundled Payments in Achieving the Three Part Aim

- Improve the care for beneficiaries who are admitted to the hospital, both during and following the hospitalization
- Reduce the escalating costs including costs born by beneficiaries
- Eliminate waste by improving the coordination and continuity of care across providers and settings
- Provide a first step towards accountable care and an effective tool for established ACOs
- Create flexibility in payment arrangements that support the redesign of care and increase alignment across providers and settings



The Case for Bundled Payments

- Large opportunity to reduce costs from waste and variation
- Gain sharing incentives align hospitals, physicians and PAC providers in the redesign of care that achieves savings and improves quality
- Improvements "spillover" to private payers
- Competencies learned in bundled payments lay the foundation for success in a value driven market
- Adoption of bundled payments is accelerating across both private and public payers
- Valuable synergies with ACOs, Value-Based Purchasing, PfP and other payment reform initiatives

Bundled Payment Models

	Model 1	Model 2	Model 3	Model 4
Episode	All acute patients, all DRGs	Selected DRGs +post-acute period	Post acute only for selected DRGs	Selected DRGs
Services included in the bundle	All part A DRG- based payments	Part A and B services during the initial inpatient stay, post-acute period and readmissions	Part A and B services during the post-acute period and readmissions	All Part A and B services (hospital, physician) and readmissions
Payment	Retrospective	Retrospective	Retrospective	Prospective



Rationale for BPCI Episode Parameters BPCI Episodes Parameters:

- Allow flexibility for providers to select clinical conditions, time frames, and services with greatest opportunity for improvement
- Enable episodes that have sufficient numbers of beneficiaries to demonstrate meaningful results
- Assure enough simplicity to allow rapid analysis and implementation of episode definitions
- Achieve episodes with the appropriate balance of financial risk and opportunity
- Build on lessons from prior initiatives and CMS demonstrations



MS-DRGs are the "Building Blocks" for Episodes in Models 2-4

- MS-DRGs represent an established, annually refined bundle of inpatient services and comprise a large portion of episode expenditures for most models
- Target prices or prospective payment amounts rely on historical MS-DRG payments as a significant component of bundles that include inpatient care
- Using MS-DRGs builds on widely accepted methodology for grouping clinical conditions for appropriate payment
- There is prior experience using MS-DRGs as the building blocks for episodes in CMS demonstrations and research



What Triggers an Episode in BPCI?

- Model 2: Episode begins with an acute inpatient hospital admission for an included MS-DRG
- Model 3: Episode begins <u>at initiation</u> of SNF, IRF, HHA, or LTCH services within 30 days following discharge from an acute care inpatient hospital stay for an included MS-DRG
- Model 4: Episode begins with an acute care hospital admission for included MS-DRGs



Applicant Roles

Applicants may apply for one of three roles:

Applicant Type

Risk-Bearing

Non Risk-Bearing

Awardee

 Must assume financial responsibility for its patients

Awardee Convener

 Must assume financial responsibility for its patients and its partners' patients

Facilitator Convener

- Could serve in an administrative and technical assistance capacity for designated awardees
- Designated awardees assume financial responsibility



What are the Timeframes for Episodes in BPCI?

- BPCI episodes must be constructed for a defined time period in contrast to some commercial episodes that may have a variable time length
 - Model 1 the episode is the acute care hospitalization
 - Models 2,3 applicants may propose a timeframe of 30 days or longer following hospital discharge or following episode initiation for Models 2 and 3, respectively. Applicants are encouraged to consider longer post-acute lengths to support care redesign throughout the transition back to the community
 - Model 4 the episode is the acute care hospitalization and readmissions for 30 days postdischarge
- Claims for services that begin during the episode and extend beyond the end of the episode (e.g. home health services) may be either wholly included or prorated
 - Applicants may propose one of these two approaches



What Services are Included or Excluded in a BPCI Episode?

- Applicants must specify the services they propose for exclusion in terms of MS-DRGs for readmissions and ICD-9 diagnosis codes for other services
- Only services following hospital discharge are eligible for consideration for exclusion
- Proposed exclusions must be clinically relevant and material, and should be justified



BPCI Episode Risk-adjustment

- In recognition of possible variation within MS-DRG defined episodes, applicants may propose riskadjustment methodologies
- Methodologies must be replicable using Medicare claims data
- Useful methodologies will be accurate in explaining variation and have a sound clinical rationale



Are IME, DSH, Capital Payments and Outlier Payments Included within a BPCI Episode?

- Discounts to MS-DRG payments under this initiative will <u>not</u> be applied to IME or DSH payments. IME and DSH payments are unaffected by BPCI
- IME, DSH, and capital payments will be removed in the calculation of target price
 - This will be done by CMS if applicants are unable to do so
- Outlier payments are included within the episode definition.
 Applicants should include outlier payments in their determination of the target price



How Does BPCI Interact with Other Health Reform Initiatives?

- BPCI is not a Shared Savings (SS) program.
- By providing incentives for care redesign and collaboration, BPCI provides valuable synergies with other delivery system reform initiatives including ACOs, Partnership for Patients and Value-Based Purchasing
- Policies related to Readmissions, Hospital Acquired Conditions (HACs) and Value-Based Purchasing programs are unchanged and apply as appropriate to BPCI
- BPCI applications may be reviewed in light of participation in multiple programs to avoid counting savings twice in interacting programs and to assure a valid evaluation.

How is the Final BPCI Episode Target Price Determined?

- A target price is determined for each year of the program by trending the baseline episode period (2009) forward 3 years to 2012 and thereafter for each year of the program, with application of the agreed upon discount
- IME and DSH are removed, along with other technical adjustments
- Episode definitions and discounts may be refined with potential awardees <u>prior</u> to initiation of the program



What are the Chart Books?

- Two documents are available to support episode definition
 - Analysis of Post-Acute Care Episode Definitions (November 2009
 Chart Book) 5% sample of Medicare claims data from 2006
 - Post-Acute Care Episodes Expanded Analytic File (June 2011 Chart Book) - 30% sample of Medicare claims data from 2008
- Chart books were developed under a prior contract with RTI and funded by the HHS Assistant Secretary for Policy and Evaluation (ASPE)
- This research was designed to inform larger policy issues by examining a variety of episode definitions
- This research is being shared for informational purposes only and are available on the Learning Area of the Bundled Payment section of the Innovation Center Web site

HHS and CMS do <u>not</u> endorse specific episode definitions within these documents



How do these Chart Books Relate to BPCI?

Chart Books:

- Demonstrate the distribution of Medicare payments for high volume MS-DRGs within major service categories
 - Allows providers to determine key areas to focus on care redesign
 - Provides a qualified national benchmark for several MS-DRGs
- Demonstrate areas where there is variation and potential opportunity to achieve savings
- Include some episode definitions that are <u>not</u> appropriate for BPCI
- Payment adjustments and exclusion criteria result in mean payments that do <u>not</u> correspond directly to applicant historical payments or BPCI episode prices
- Do <u>not</u> constitute an endorsement of specific MS-DRGs



Overview of the Chart Books – Episode Definitions

- Both chart books include episodes initiated with an acute hospital inpatient stay which are relevant to BPCI
 - June 2011 Chart Book contains an additional analysis of community entrant post-acute care episodes not relevant to BPCI
- Acute hospital initiated episodes were defined by MS-DRGs, and standardized to remove the effects of payment policies including IME, DSH and geographic adjustments
- Various episode lengths were used including fixed and variable episode lengths
 - Only fixed time periods will be used in BPCI
- Episodes were constructed with and without prorating prospective payments which extend beyond the end of the episode



Overview of the Chart Books – Episode Definitions

- Episode payments are broken into service categories including inpatient hospital payments, inpatient physician payments, readmissions, home health, SNF, IRF, LTCH, and therapy services.
- The chart books include episode definitions which exclude acute hospital readmissions
 - In BPCI, readmissions will be included unless they are specifically excluded in the episode definition



- Sections 1-4 of both chart books provide an overview of the amount of Medicare payment within each service category for the top 20 MS-DRGs by volume of discharges to PAC service
- **Model 2** includes all beneficiaries regardless of whether they are discharged to a PAC service. Mean payments per hospital discharge would be the most useful information.
- **Model 3** includes only beneficiaries who have been admitted to a PAC service, so the mean payments per user of PAC service would be the most useful information.
 - Hospital Outpatient Therapy cannot be used as an episode anchor for Model 3



Section 1-Table 5

Medicare Post-Acute Care Episode Payments and Utilization Per Discharge and Per PAC User, Top MS-DRGs By Volume, 2008
Acute Initiated Episodes

Episode Definition E: 30 Day Fixed Following Hospital Discharge (pro rated)

						Per Index Acute Hospital Discharge Per PAC User									
						Mean Index	Ter Indea	reace Hospital	Jan ge		Mean Index		1011110 0301		
			Percent of			Acute	Mean PAC	Mean Total			Acute	Mean PAC	Mean Total		
	Number of			Total Medicare	Rank By	Hospital	Episode ⁴	Episode ⁵	Total Medicare	Rank By	Hospital	Episode ⁴	Episode ⁵	Total Medicare	Rank By
MS-DRG		Number of	Discharged to		Total	Payment Per		Payment	Spending	Total	Payment Per		Payment	Spending	Total
	Hospital	PAC	PAC	PAC ³	PAC								Per PAC User		
	Discharges ¹	Users ²	(%)	(\$)	Spending		(\$)	(\$)	(\$)	Spending	(\$)	(\$)	(\$)	(\$)	Spending
All MS-DRGs	1,705,794	659,549	39	4,989,135,506	opending	8,531	3,845	12,377	8,162,999,259	Spending	10,572	7,564	18,136	11,961,872,243	opening
470: Major joint replacement or reattachment of lower extremity w/o MCC	95,971	90,434	94	559,053,777	1	11,079	5,893	16,972	1,534,852,275	1	11,120	6.182	17,302	1.564.693.439	1
065: Intracranial hemorrhage or cerebral infarction w CC	18,651	13,992	75	188,840,486	2	6,392	10,520	16,911	236,623,727	4	6,401	13,496	19.897	278,403,003	4
481: Hip & femur procedures except major joint w CC	14,368	13,704	95	165,087,649	3	10,295	11,567	21.861	299,587,854	3	10,296	12,047	22,342	306,178,751	3
194: Simple pneumonia & pleurisy w CC	35,980	13.064	36	81,458,328	8	5,347	3,112	8,459	110,506,550	15	5,471	6,235	11,706	152,929,070	10
690: Kidney & urinary tract infections w/o MCC	29,536	12,954	44	87,426,820	4	3,989	3,615	7,604	98,502,490	18	4,090	6,749	10,839	140,409,577	12
641: Nutritional & misc metabolic disorders w/o MCC	28,647	9,755	34	61,851,481	14	3,550	2,971	6,521	63,612,985	35	3,763	6,340	10,103	98,557,312	24
299: Peripheral vascular disorders w MCC	19,927	9,752	49	85,170,943	5	9,968	5,174	15,142	147,666,294	9	10,614	8,734	19,347	188,675,091	6
292: Heart failure & shock w CC	22,092	8,602	39	53,869,194	18	5,322	3,864	9,186	79,016,532	24	5,414	6,262	11,677	100,444,470	23
291: Heart failure & shock w MCC	19,401	8,561	44	64,168,141	11	7,199	4,819	12,017	102,881,485	16	7,307	7,495	14,803	126,724,874	14
552: Medical back problems w/o MCC	14,067	8,113	58	62,996,986	13	3,931	5,443	9,374	76,049,834	25	3,990	7,765	11,755	95,368,636	25
066: Intracranial hemorrhage or cerebral infarction w/o CC/MCC	13,854	7,965	57	72,160,098	10	5,152	5,783	10,935	87,097,548	22	5,210	9,060	14,270	113,658,438	18
312: Syncope & collapse	29,247	7,926	27	42,710,506	26	3,610	2,145	5,756	45,620,655	51	3,796	5,389	9,185	72,800,313	40
603: Cellulitis w/o MCC	20,521	7,590	37	40,566,111	27	4,186	2,578	6,765	51,342,802	46	4,304	5,345	9,649	73,234,795	37
482: Hip & femur procedures except major joint w/o CC/MCC	7,814	7,216	92	82,597,971	6	8,618	10,683	19,301	139,277,134	10	8,633	11,447	20,079	144,893,323	11
683: Renal failure w CC	16,395	6,765	41	50,899,078	21	6,437	4,247	10,684	72,278,328	28	6,464	7,524	13,988	94,626,502	26
392: Esophagitis, gastroent & misc digest disorders w/o MCC	42,290	6,683 6,649	16 50	32,078,961	37	3,409	1,715 3,957	5,125	34,248,175	67	3,703	4,800	8,503	56,824,887	51
460: Spinal fusion except cervical w/o MCC	13,223 14,544	6,507	30 45	46,772,728 48,664,017	23 22	21,360 7,058	4,440	25,317 11,498	168,331,008 74,816,718	26	21,955 7,060	7,035 7,479	28,990 14,539	192,752,801 94,605,405	27
193: Simple pneumonia & pleurisy w MCC											4,372				
195: Simple pneumonia & pleurisy w/o CC/MCC 190: Chronic obstructive pulmonary disease w MCC	23,012 19.088	6,410 6.320	28 33	34,790,398 40,422,458	33 28	4,142 6.075	2,184 3,233	6,326 9,308	40,550,600 58,827,236	58 40	6.242	5,428 6,396	9,799 12,638	62,813,500 79,870,487	45 20



(Episodes = Acute inpatient stay plus 30 days post-discharge)

MS-DRG	Percent PAC users *	Mean total episode payment per discharge	Mean PAC payment per discharge	Mean PAC payment per PAC user
470: Major joint replacement or reattachment of lower extremity w/o MCC	94	\$16,972	\$5,893	\$6,182
065: Intracranial hemorrhage or cerebral infarction w/CC	75	\$16,911	\$10,520	\$13,496
194: Simple pneumonia & pleurisy w/CC	36	\$8,459	\$3,112	\$6,235
292: Heart failure & shock w/CC	39	\$9,186	\$3,864	\$6,262

^{*}PAC User includes Home Health, SNF, IRF, LTCH, Hospital Outpatient Therapy. Does not include readmissions.



Section 4 - Table 3

Medicare Post-Acute Care Episode Payments and Utilization By Service Type, Per Service User, Per PAC User, and Per Hospital Discharge, 2006, Top 20 MS-DRGs by Volume of Discharges to PAC Episode Definition C: 30 Day Fixed Following Hospital Discharge (pro rated)

			Ind	ex Acute Hosp	ital ¹	1	Home Health	ı		IRF			SNF			LTCH		Hospital	Outpatient 7	Therapy	Acute H	spital Read	dmissions
MS-DRO	Descriptor	Number of PAC Users	Mean Payment Per Service User	Payment Per	Mean Payment Per Hospital Discharge	Mean Payment Per Service User	Mean Payment Per PAC User	Mean Payment Per Hospital Discharge	Mean Payment Per Service User		Mean Payment Per Hospital Discharge	Mean Payment Per Service User	Mean Payment Per PAC User	Mean Payment Per Hospital Discharge	Mean Payment Per Service User	Mean Payment Per PAC User	Mean Payment Per Hospital Discharge	Mean Payment Per Service User		Mean Payment Per Hospital Discharge	Mean Payment Per Service User	Mean Payment Per PAC User	Mean Payment Pe Hospital Discharge
	All MS-DRGs	109,236	\$10,297	\$10,297	\$8,287	\$1,801	\$956	\$352	\$14,839	\$1,615	\$589	\$6,499	\$2,900	\$1,057	\$27,541	\$634	\$231	\$462	\$70	\$28	\$9,043	\$1,402	\$1,328
470	Major joint replacement or reattachment of lower extremity w/o MCC	14,447	\$10,463	\$10,463	\$10,434	\$2,481	\$1,630	\$1,445	\$11,525	\$2,231	\$1,965	\$5,871	\$2,274	\$2,006	\$15,610	\$49	\$46	\$398	\$101	\$91	\$8,924	\$550	\$557
194	Simple pneumonia & pleurisy w CC	2,661	\$5,107	\$5,107	\$5,028	\$1,605	\$773	\$280	\$15,066	\$345	\$126	\$6,060	\$3,026	\$1,081	\$22,191	\$309	\$122	\$372	\$57	\$22	\$7,696	\$1,296	\$1,179
65	Intracranial hemorrhage or cerebral infarction w CC	2,311	\$6,307	\$6,307	\$6,291	\$1,962	\$675	\$483	\$19,242	\$7,793	\$5,468	\$6,871	\$3,297	\$2,320	\$23,554	\$438	\$304	\$478	\$75	\$54	\$7,899	\$1,094	\$1,084
481	Hip & femur procedures except major joint w CC	2,135	\$9,698	\$9,698	\$9,739	\$1,758	\$561	\$519	\$15,243	\$3,927	\$3,506	\$7,994	\$5,733	\$5,168	\$24,715	\$255	\$227	\$428	\$29	\$27	\$7,815	\$1,054	\$1,081
690	Kidney & urinary tract infections w/o MCC	2,125	\$4,025	\$4,025	\$3,896	\$1,683	\$596	\$253	\$16,703	\$346	\$145	\$6,651	\$4,222	\$1,705	\$16,473	\$109	\$44	\$552	\$73	\$31	\$7,462	\$1,176	\$1,064
66	Intracranial hemorrhage or cerebral infarction w/o CC/MCC	1,760	\$5,985	\$5,985	\$6,044	\$2,066	\$951	\$558	\$17,804	\$5,584	\$3,213	\$6,629	\$2,380	\$1,377	\$23,926	\$272	\$187	\$468	\$105	\$63	\$8,469	\$1,025	\$957
641	Nutritional & misc metabolic disorders w/o MCC	1,647	\$3,700	\$3,700	\$3,457	\$1,650	\$714	\$253	\$12,690	\$408	\$170	\$6,925	\$3,830	\$1,339	\$19,534	\$107	\$38	\$470	\$64	\$24	\$8,333	\$1,320	\$1,192
292 871	Heart failure & shock w CC Septicemia w/o MV 96+ hours w MCC	1,622 1,556	\$5,299 \$9,475	\$5,299 \$9,475	\$5,179 \$9,217	\$1,534 \$1.625	\$898 \$534	\$352 \$291	\$14,756 \$15.460	\$264 \$537	\$122 \$289	\$6,220 \$6,256	\$2,784 \$3,892	\$1,084 \$2,043	\$20,597 \$23,589	\$203 \$1.092	\$95 \$585	\$375 \$646	\$39 \$88	\$18 \$47	\$8,014 \$9,970	\$1,719 \$1,916	\$1,930 \$1,748
482	Hip & femur procedures except major joint w/o CC/MCC	1,526	\$8,304	\$8,304	\$8,288	\$1,904	\$747	\$670	\$14,862	\$4,344	\$3,792	\$7,885	\$5,069	\$4,459	\$21,842	\$157	\$137	\$406	\$37	\$33	\$8,008	\$918	\$955
195 552 603 291 312	Simple pneumonia & pleurisy w/o CC/MCC Medical back problems w/o MCC Cellulitis w/o MCC Heart failure & shock w MCC Syncope & collapse	1,510 1,433 1,277 1,252 1,245	\$4,512 \$3,827 \$3,905 \$5,884 \$3,595	\$4,512 \$3,827 \$3,905 \$5,884 \$3,595	\$4,368 \$3,795 \$3,759 \$5,621 \$3,352	\$1,627 \$1,772 \$1,594 \$1,594 \$1,766	\$791 \$872 \$931 \$833 \$1,032	\$240 \$476 \$324 \$372 \$259	\$13,390 \$14,298 \$13,318 \$15,482 \$14,232	\$160 \$1,537 \$198 \$618 \$640	\$61 \$848 \$79 \$283 \$170	\$6,039 \$6,860 \$6,121 \$6,294 \$7,219	\$2,824 \$3,715 \$2,368 \$3,062 \$2,841	\$857 \$1,971 \$838 \$1,349 \$717	\$17,687 \$14,966 \$19,441 \$30,126 \$18,753	\$70 \$63 \$365 \$674 \$75	\$29 \$47 \$137 \$305 \$18	\$394 \$510 \$384 \$633 \$430	\$71 \$76 \$63 \$71 \$67	\$22 \$46 \$25 \$32 \$19	\$6,927 \$8,404 \$7,710 \$9,475 \$7,607	\$885 \$1,361 \$1,026 \$2,414 \$837	\$827 \$1,443 \$815 \$2,417 \$800
392	Esophagitis, gastroent & misc digest disorders w/o MCC	1,232	\$3,849	\$3,849	\$3,498	\$1,585	\$827	\$127	\$14,048	\$365	\$65	\$6,565	\$2,632	\$394	\$17,091	\$55	\$13	\$355	\$65	\$11	\$7,973	\$1,139	\$917
293	Heart failure & shock w/o CC/MCC	1,215	\$4,987	\$4,987	\$4,978	\$1,472	\$982	\$286	\$12,304	\$101	\$37	\$6,378	\$2,084	\$624	\$17,801	\$132	\$40	\$388	\$45	\$15	\$8,986	\$1,686	\$1,824
192	Chronic obstructive pulmonary disease w/o CC/MCC	1,098	\$4,288	\$4,288	\$4,134	\$1,450	\$942	\$207	\$14,703	\$295	\$74	\$5,478	\$1,566	\$359	\$22,782	\$415	\$98	\$305	\$49	\$15	\$7,320	\$1,173	\$1,132
683 536	Renal failure w CC Fractures of hip & pelvis w/o MCC	1,082 924	\$6,590 \$3,416	\$6,590 \$3,416	\$6,649 \$3,422	\$1,561 \$1,710	\$648 \$681	\$268 \$600	\$14,243 \$13,947	\$369 \$2,219	\$145 \$1,909	\$6,526 \$7,605	\$3,716 \$5,333	\$1,475 \$4,569	\$23,322 \$19,673	\$302 \$85	\$123 \$72	\$828 \$668	\$115 \$63	\$47 \$54	\$8,100 \$9,474	\$1,625 \$1,261	\$1,587 \$1,249



MS-DRG 65: Intracranial hemorrhage or cerebral infarction w CC

Model 2 (mean payment per hospital discharge)

Service	Payment
Index hospitalization	\$6,291
ННА	\$483
SNF	\$2,320
IRF	\$5,468
LTCH	\$304
Hospital Outpatient	\$54
Readmissions	\$1,084

Model 3 (mean payment per service user)

Service	Payment
ННА	\$1,962
SNF	\$6,871
IRF	\$19,242
LTCH	\$23,554
Readmissions	\$7,899



Understanding Geographic Variability

- Sections 5-6 of the **November 2009 Chart Book** and Sections 6-7 of the **June 2011 Chart Book** provide an overview of the variation in post-acute payments by state and core based statistical areas (CBSA) for all MS DRGs
- Sections 5-6 of the **November 2009 Chart Book** show the variation in post-acute payments for MS-DRG 470: Major joint replacement or reattachment of lower extremity w/o MCC and MS-DRG 194: Simple pneumonia & pleurisy w/CC
- Sections 7-8 of the **November 2009 Chart Book** show mean payments within service categories for 10 states and 10 CBSAs for the different episode definitions



Section 5 - Table 15 Standardized Post-Acute Care Payments, By State

MS-DRG 470: Major joint replacement or reattachment of lower extremity w/o MCC

Episode Definition I: 90 Day Fixed: Any Claim Starting Within 90 Days After Hospital Discharge

Pack Pack Pack Clear				Based on Lo	ocation of	Index Provide	r					Based or	n Benefici	ary Residence				
Arabas 14 700 2922 1905 4,114 1140 344 90.5 17 73.9 3,373 1909 4,984 99.5 34.2 93.6 74.2 180.2 1	State		Beneficiaries Discharged to PAC	Payment Per Index Acute Hospital Discharge ²	CV ³	Payment Per PAC User	CV ³	LOS Per PAC User ⁴	cv³	PAC	f Beneficiaries Discharged to PAC	Payment Per Index Acute Hospital Discharge ²	cv³	Payment Per PAC User	CV ³	LOS Per PAC User	cv³	
Azisens 334 84.2 78.87 190.2 8.790 177.0 40.1 74.5 216 81.8 7.284 199.7 8.216 180.2 39.5 7.44 7.575 7.971 99.1 9.002 8.96 7.965 99.6 8.96 7.965 99.6 8.799 8.94 44.7 67.0 6							107.3										61.0	_
Akamasa 192 88.5 7971 99.1 90.02 86.9 45.1 65.9 198 89.6 7965 99.6 8.799 89.4 44.7 67.01 67.																	51.2	
Catherma																	76.0	
Columnation																	65.7	
Commerciant 201 971 6.326 111.7 6.978 111.0 53.2 53.4 203 971 7.591 112.0 7.090 110.3 53.3 53.5 53.4 56.9 85.7 7.325 137.5 7.654 131.9 39.0 7.590 131.9 39.0 7.590 131.9 39.0 7.590 131.9 39.0 7.590 131.9 39.0 7.590 131.9 39.0 7.590 131.9 39.0 7.590 131.9 39.0 7.590 131.5 31.55																	72.1	
Delaware 61 969 7,560 1359 7,804 131,6 39.5 72.3 66 95.7 7,325 17.5 7,854 131,9 39.0 7.0 Delaware 61 1.0 91 95.9 7,809 131,5 1.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0																	69.0	
District of Columbias 1,049 95,9 7,389 1,176 88,7 83,70 80.5 32,1 91.4 20 95.2 80.45 74,1 8,447 68,8 41,1 7,75 68,2 64,2																	58.5	
Forcida 1,049 95.9 7,889 111.5 8,165 109.1 50.0 58.6 1,020 95.8 7,679 114.4 7,954 111.0 49.9 5																	71.7	
Seorgia 420 99.7 6.897 1219 7.482 115.2 46.8 61.5 411 90.5 6.884 1211 7.239 113.2 46.7 61																	71.8	
Envarial 21 72.4 4.540 134.8 5.808 111.9 41.0 60.5 21 72.4 4.799 134.6 6.166 111.4 43.5 68																	58.6	
Indian	•																61.3	
Dimois 704 92.1 7.372 109.6 7.916 103.0 51.1 60.8 73.0 91.9 7.348 106.6 7.866 100.3 51.2 60.8																	63.6	
Definism																	63.2	
Down 234																	60.1	
Emensky 256 9.4 8.422 108.2 9.112 101.3 501.0 78.6 5.988 133.0 7.144 117.6 471.1 5.6 5.6 5.0 9.6 5.0 9.6 5.0 9.6 5.0																	62.5	
Exemptidy																	74.7	
Louisitian 196 92.9 99.19 1004 10.259 99.3 50.9 60.0 190 91.3 94.87 108.0 10.308 100.3 51.8 6 5 5 5 5 5 5 5 5 5																	58.4	
Maine 110 96.5 7.233 102.2 7.412 100.1 54.3 58.7 114 95.8 7.169 101.4 7.412 92.5 54.0 5.0				-,		-,						-,					62.2	
Marysland Assachusetts Assac																	60.0	
Maisschusetts 377 99.5 9.178 99.0 9.227 90.5 60.3 51.7 371 99.5 9.117 90.6 9.166 90.1 60.0 5 Michigan 684 80.2 6.643 135.4 7.248 125.7 51.9 70.2 88.6 6.573 13.16 7.20.2 12.2 22.4 43.5 6.0 Minsistipion 143 91.1 7.731 122.4 43.71 115.4 55.1 63.5 151.1 83.3 7.009 132.4 42.85 15.0 55.3 6 Missistipion 143 91.1 7.731 12.4 43.71 115.4 55.1 63.5 51.1 83.3 7.009 132.4 42.82 115.0 55.3 6 Missistipion 143 91.1 7.038 97.7 7.238 94.7 7.238 94.7 7.238 94.7 7.238 94.7 7.238 94.7 7.79 11.0 83.1 1																	59.5	
Michigan 684 89.2 6,643 135.4 7,248 125.7 52.7 55.9 702 88.6 6,573 135.6 7,230 125.2 52.4 5 Mississippi 143 91.1 7,731 122.4 8,371 115.4 55.1 63.5 151 88.3 7,809 132.4 2,285 115.0 55.3 6 Mississippi 143 91.1 7,731 122.4 8,371 115.4 55.1 63.5 151 88.3 7,809 132.4 2,285 115.0 55.3 6 Missouri 330 94.1 7,038 94.6 47.4 64.5 38.7 93.3 6.971 99.6 7,283 94.7 1 6 76.8 64.7 3,000 137.8 95.2 108.9 129.9 79.2 8.6 6.7 20.3 6.7 149 90.5 3,790 154.8 44.9 149.9 179.0 149.4 429.8 143.8	•																70.9	
Minnetota 288 80.4 4,003 151.1 4,797 132.7 44.2 69.0 285 81.9 4,022 146.5 4,782 128.4 43.5 6 Missistipijo 143 91.1 7,731 122.4 8,371 115.4 55.1 63.5 151 88.3 7,809 132.4 8,285 115.0 55.3 66.7 3,139 93.7 7,238 94.6 47.4 64.5 387 93.3 6,971 99.6 7,283 94.6 47.4 64.5 387 93.3 6,971 99.6 7,288 99.7 149 80.5 56.6 66.7 3,139 133.7 3,916 107.3 41.6 76.8 55 64.7 3,080 137.9 139.8 12.9 149.8 13.8 10.585 193.3 119.9 42.2 7 149 80.5 57.7 149 80.5 80.7 149 80.5 80.2 80.7 109.8 44.9 14.3																	52.7 56.5	
Mississippi 143 91.1 7,731 122.4 8,371 115.4 55.1 63.5 151 88.3 7,809 132.4 8,285 115.0 55.3 6 Montana 36 66.7 3,139 133.7 7,238 94.6 47.4 64.5 387 93.3 6,971 99.6 7,283 95.3 47.1 6 Montana 56 66.7 3,139 133.7 3,916 107.3 41.6 76.8 55 64.7 3,080 137.8 3,952 108.9 42.3 7.8 10.5 80.0 3,641 139.4 4,298 143.8 41.9 99.7 149 80.5 3,790 138.4 4,445 139.9 42.3 5 New Machina 81 88.0 13,54 4,298 143.8 41.9 99.7 149 80.5 3,790 138.4 4,445 139.9 42.3 5 New Montana 81 81 13.8	-																68.8	
Mistouri 380 94.1 7,038 97.7 7,238 94.6 47.4 64.5 387 93.3 6,971 99.6 7,283 95.3 47.1 66. Monthan 56 66.7 3,139 133.7 3,916 107.3 41.6 76.8 55 64.7 3,080 137.8 3,952 108.9 45.2 77. Nebraska 156 80.0 3,641 159.4 4,298 143.8 41.9 59.7 149 80.5 3,790 154.8 4,445 139.9 42.3 78. Nevada 81 88.0 11,542 180.8 12,917 169.2 43.0 76.5 86 87.8 10,585 193.3 11,993 179.0 44.4 78. New Hampshire 90 97.8 6,680 95.7 6,479 96.4 50.8 60.2 96 98.0 7,091 107.6 6,912 109.3 44.6 78. New Hampshire 90 97.8 0,680 95.7 6,479 96.4 50.8 60.2 96 98.0 7,091 107.6 6,912 109.3 44.6 78. New Hampshire 97.9 9,988 82.5 9,970 81.6 53.1 59.4 378 97.2 9,856 83.3 9,913 81.7 53.2 55. New York 62.5 93.8 9,297 121.6 9,675 115.9 51.8 76.7 62.6 93.9 9,412 121.2 9,787 115.5 52.0 79. North Carolina 567 96.4 6,887 96.1 7,103 93.0 48.4 64.1 556 93.9 9,412 121.2 9,787 115.5 52.0 79. North Carolina 567 96.4 6,887 96.1 7,103 93.0 48.4 64.1 556 96.0 7,102 95.4 7,356 92.0 49.2 60. North Dakota 55 73.3 5,140 131.3 6,915 102.3 48.9 551 49 75.4 5,709 118.9 7,470 93.0 49.3 50. Okiahoma 20.2 87.1 7,556 91.4 8,404 78.1 43.5 70.6 67.0 88.4 7,827 166.3 8,649 156.1 54.3 5.0 6.0 6.0 91.4 8,404 78.1 43.5 70.6 67.0 88.4 7,827 166.3 8,649 156.1 54.3 5.0 6.0 67.0 93.3 8,986 110.7 9,579 104.6 50.8 59.9 632 93.5 8,981 110.2 9,546 104.5 50.4 50.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0 6												.,					61.9	
Montama 56 66.7 3,139 133.7 3,916 107.3 41.6 76.8 55 64.7 3,080 137.8 3,952 108.9 45.2 77 Nebranka 156 80.0 3,641 159.4 4,298 143.8 41.9 59.7 149 80.5 3,790 154.8 4,445 139.9 42.3 5 New Idenda 81 88.0 11,542 180.8 11,917 169.2 43.0 76.5 86 87.8 10,585 193.3 11,993 1199.0 44.4 7.8 New Herson 70.9 9.88 8.0 80.9 70.00 107.6 6,912 109.3 49.6 5 8 80.8 89.0 7,091 107.6 6,912 109.3 49.6 5 8 80.8 89.0 7,091 107.6 6,912 109.3 49.6 5 8 80.8 89.9 7,208 108.0 99.9 12.1 99.8 10.0	• •																64.5	
Nebraska 156 80.0 3,641 159.4 4,298 143.8 41.9 59.7 149 80.5 3,790 154.8 4,445 139.9 42.3 55 New Acada 81 88.0 11,542 180.8 12,917 169.2 43.0 76.5 86 87.8 10,585 193.3 11,993 179.0 44.4 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8																	71.0	
New Janual St. 88.0 11.542 180.8 12.917 169.2 43.0 76.5 86 87.8 10.585 193.3 11.993 179.0 44.4 7.8 New Hampshire 9 90 97.8 6.680 95.7 6.479 96.4 50.8 60.2 96 98.0 7.091 107.6 6.912 109.3 49.6 5.5 1.9 1.0 10.0 10.0 10.0 10.0 10.0 10.0 1				-,								-,					58.5	
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New Jersey 377 97.9 9,988 82.5 9,970 81.6 53.1 59.4 378 97.2 9,856 83.3 9,913 81.7 53.2 55 New Mexico 77 91.8 7.811 100.5 8,341 94.5 53.6 56.8 80 88.9 7.268 107.4 8,040 98.4 51.8 5 New York 625 93.8 9,997 121.6 9,675 115.9 51.8 76.7 626 93.9 9,412 121.2 9,797 115.5 52.0 7 North Carolina 567 96.4 6,887 96.1 7,103 93.0 48.4 64.1 556 96.0 7,102 95.4 7,356 92.0 49.2 6 North Dakota 55 73.3 5,140 131.3 6,915 102.3 48.9 55.1 49 75.4 5,709 118.9 7,470 93.0 49.3 5 Oklahoma 202 87.7 7,725 166.8 8,603 155.7 54.6 57.0 671 88.4 7,827 166.3 8,649 156.1 54.3 5 Oklahoma 202 87.1 7,566 91.4 8,424 78.1 43.5 70.6 208 86.3 7,555 93.7 8,496 79.6 44.0 7 Oregon 122 76.7 3,932 139.1 5,037 114.7 45.0 72.5 133 76.9 4,233 133.3 5,387 110.0 44.1 7 Pennsylvania 625 93.3 8,986 110.7 9,579 104.6 50.8 59.9 632 93.5 8,981 110.2 9,546 104.5 50.4 5 South Carolina 31 100.0 7,570 72.3 7,570 72.3 49.0 61.4 34 100.0 7,865 69.4 7,865 69.4 49.8 6 South Carolina 83 69.2 3,743 219.4 4,927 191.1 44.9 65.9 75 71.4 4,107 206.8 5,217 183.8 44.4 6.5 South Carolina 83 69.2 3,743 219.4 4,927 191.1 44.9 65.9 75 71.4 4,107 206.8 5,217 183.8 44.4 6.5 South Carolina 128 93.4 6,733 111.6 7,147 106.0 47.2 66.6 126 94.7 6,839 110.8 7,159 106.7 47.3 6.5 Utah 128 93.4 6,733 111.6 7,147 106.0 47.2 66.6 126 94.7 6,839 110.8 7,159 106.7 47.3 6.5 Utah 128 93.4 6,733 111.6 7,147 106.0 47.2 66.6 126 94.7 6,839 110.8 7,159 106.7 47.3 6.5 Utah 128 93.4 6,733 111.6 7,147 106.0 47.2 66.6 126 94.7 6,839 110.8 7,159 106.7 47.3 6.5 Utah 128 93.4 6,733 111.6 7,147 106.0 47.2 66.6 126 94.7 6,839 110.8 7,159 106.7 47.3 6.5 Utah 128 93.4 6,733 111.6 7,147 106.0 47.2 66.6 126 94.7 6,839 110.8 7,159 106.7 47.3 6.5 Utah 128 93.4 6,733 111.6 7,147 106.0 47.2 66.6 126 94.7 6,839 110.8 7,159 106.7 47.3 6.5 Utah 128 93.4 6,845 127.2 5,701 108.8 40.8 72.2 298 80.8 4,780 128.2 5,611 110.0 40.8 7.2 11.9 94.4 4.9 11.9 94.4 4.9 11.9 94.4 4.9 11.9 94.4 4.9 11.9 94.4 4.9 11.9 94.1 7,2 11.9 97.4 66.1 11.3 48.9 5.9 94.0 83.4 4.0 15 122 5,011 110.0 40.8 7.1 11.0 40.8 7.1 11.0 40.8 7.1 11.0 40.8 7.1 11.																	59.0	
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North Carolina 567 96.4 6,887 96.1 7,103 93.0 48.4 64.1 556 96.0 7,102 95.4 7,356 92.0 49.2 66 North Dakota 55 73.3 5,140 131.3 6,915 102.3 48.9 55.1 49 75.4 5,709 118.9 7,470 93.0 49.3 55 00.0 679 87.7 7,725 166.8 8,603 155.7 54.6 57.0 671 88.4 7,827 166.3 8,649 156.1 54.3 5 00.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0																	76.4	
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Wisconsin 326 74.9 3,843 152.8 4,820 129.3 47.0 58.5 326 74.3 4,015 152.2 5,093 127.9 47.2 5																	64.1	
																	57.9	
	Wyoming	33	75.0	5,086	126.5	6,494	104.4	48.2	72.6	37	77.1	4,767	136.2	6,116	111.8	44.7	77.7	

MS-DRG 470: Major joint replacement or reattachment of lower extremity w/o MCC

(Episodes = Acute inpatient stay plus 90 days post-discharge)

State	Mean PAC payment per discharge	CV	Mean PAC payment per PAC user	CV	Mean PAC LOS per PAC user	CV
Alabama	\$5,982	121.1	\$6,946	107.3	53.5	60.2
Alaska	\$2,922	150.5	\$4,174	114.0	34.4	50.5
Arizona	\$7,827	190.2	\$8,790	177.0	40.1	74.5
Arkansas	\$7,971	99.1	\$9,002	86.9	45.1	65.9
California	\$5,735	132.2	\$6,723	118.8	41.8	72.0

Coefficient of variation (CV) = Standard deviation / mean x 100

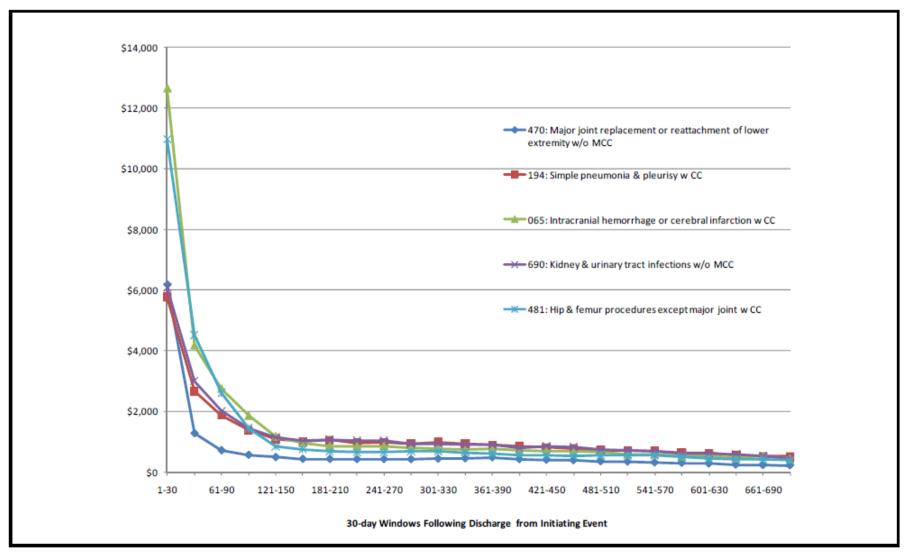


Understanding Patterns of Expenditures Over Time

 Section 7 of the Appendix in the June 2011 Chart Book provides various longitudinal analyses of expenditures following an inpatient discharge



Figure 9. Mean Acute and PAC Payments Per PAC User Following Discharge From an Acute Initiating Event, by MS-DRG



Note: All initiating events occurred in 2006. Twenty-four 30-day windows were constructed following discharge from the initiating event to follow service use for 2 years.

Source: RTI analysis of 2006, 2007, and 2008 Medicare claims (M3MM181).

Conclusion

- The Innovation Center looks forward to receiving your applications and testing your episode approaches
- The Innovation Center will offer ongoing Learning Activities to support the success of applicants as you prepare submissions and throughout the implementation process.

Questions and Answers

Please submit your questions via the chat function



Upcoming Dates

- Additional information about improvements to the application process will be available on the website, http://innovations.cms.gov/areas-of-focus/patient-care-models/bundled-payments-for-care-improvement.html
- Applications are due for Models 2-4 on April 30, 2012
- Data for those who submitted data use applications will be available approximately two months prior to the revised submission date
- Stay tuned to the website for information about upcoming seminars
- For further questions, please email <u>BundledPayments@cms.hhs.gov</u>