



STRATEGIC PLANNING & INNOVATION

2016 Episodes of Care Results

2016 TennCare Episodes of Care Results

- Doctors and hospitals delivered care more cost effectively while maintaining or in some cases improving quality in the calendar year 2016 TennCare episodes of care. The eight episodes in the 2016 performance period are perinatal, acute asthma exacerbation, total joint replacement, colonoscopy, cholecystectomy, acute chronic obstructive pulmonary disease exacerbation (COPD), acute percutaneous coronary intervention (PCI), and non-acute percutaneous coronary intervention (PCI).
- Many quality measures improved for perinatal, total joint replacement, and COPD, and were relatively unchanged for the remaining episodes. In the perinatal episode, six of the seven quality measures improved from 2015 to 2016 and the seventh quality measure was relatively unchanged. One of the perinatal quality measures, group b streptococcus screening, improved from 85.9 percent in 2015 to 94 percent in 2016. Four of the five total joint replacement quality measures and three of the four COPD quality measures improved from 2015 to 2016. Quality was maintained for the remaining episodes. For instance in the acute PCI episode, hospitalization in the post trigger window was 1.0 percent in 2015 and 0.7 percent in 2016. One measure, intraoperative cholangiography in cholecystectomy, showed negative movement from 20 percent to 17.6 percent.
- The 2016 results show episodes costs were \$14.5 million less than expected across the eight episodes. This reduction is compared to an assumption of a 3 percent annual increase in medical costs. Results show an estimated reduction in cost compared to that trend of 14.6 percent in acute asthma exacerbation, 7.6 percent in TJR, 7.1 percent in perinatal, 5.7 percent in COPD, 2.7 percent in colonoscopy, 1.3 percent in cholecystectomy, and 1 percent in acute PCI. Non-acute PCI, a low volume episode for TennCare, shows an estimated increase in cost of 16 percent.
- Across the state, providers who met quality measures and had relative low costs received \$936,893 in gain share payments for their episodes, while providers with the highest average episode costs in the state paid \$542,393 in risk share payments. Most providers had average episode costs and saw no change in payment.

Episode Quality Measures – Perinatal

Quality Measures	CY 2015	CY 2016
Tied to Gain-Sharing		
1. HIV Screening (≥ 85%)	88.3%	87.7%
2. Group B Streptococcus Screening (≥ 85%)	85.9%	94.0%
3. C-Section Rate (≤ 41%)	31.6%	30.6%
Informational Only		
1. Gestational Diabetes Test	79.1%	83.7%
2. Asymptomatic Bacteriuria Screening Rate	79.8%	82.0%
3. Hepatitis B Screening Rate	83.7%	84.3%
4. Tdap Vaccination Rate	29.4%	78.9%



Green text = positive movement
 Red text = negative movement
 Black text = less than one percentage point movement

Episode Quality Measures – Acute Asthma Exacerbation

Quality Measures	CY 2015	CY 2016
Tied to Gain-Sharing		
1. Follow-up Visit with Physician ($\geq 43\%$)	N/A	29.6%*
2. Patient on Appropriate Medication ($\geq 82\%$)	N/A	60.3%*
Informational Only		
1. Repeat Acute Exacerbation within 30 days	6.9%	6.5%
2. Inpatient Episodes	4.1%	3.2%
3. Smoking Cessation Counseling	0.8%	2.1%
4. Patient Education	45.6%	20.3%
5. Chest X-ray	54.2%	62.8%

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*There was a coding change to these quality metrics so there is no direct comparison.



Episode Quality Measures – Total Joint Replacement

Quality Measures	CY 2015	CY 2016
Informational Only		
1. Readmissions	3.4%	2.6%
2. Post-operative Deep Vein Thrombosis (DVT)/Pulmonary Embolism (PE)	2.1%	0.4%
3. Post-operative Wound Infection	6.7%	4.1%
4. Dislocations or Fractures	4.6%	3.7%
5. Average Length of Stay (Days)	3.71	4.08



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Episode Quality Measures – Cholecystectomy

Quality Measures	CY 2015	CY 2016
Tied to Gain-Sharing		
1. Hospitalization in Post-Trigger Window ($\leq 10\%$)	0.8%	1.0%
Informational Only		
1. Intraoperative cholangiography	20.0%	17.6%
2. ERCP	1.0%	0.5%
3. Average Length of Stay (Days)	1.17	1.57



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Episode Quality Measures – Colonoscopy

Quality Measures	CY 2015	CY 2016
Informational Only		
1. Participation in QCDR (≥ 25%)	2.9%	9.7%
2. Perforation of colon	0.0%	0.0%
3. Post-polypectomy/biopsy bleed	0.1%	0.0%
4. Prior colonoscopy	1.7%	2.1%
5. Repeat colonoscopy	0.8%	0.3%



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Episode Quality Measures – COPD

Quality Measures	CY 2015	CY 2016
Tied to Gain-Sharing		
1. Follow-up care within post-trigger window (≥ 60%)	45.1%	46.7%
Informational Only		
1. Repeat acute exacerbation within post-trigger	11.3%	12.2%
2. Inpatient setting of acute exacerbation	24.7%	22.1%
3. Smoking cessation counseling	23.5%	24.8%



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Episode Quality Measures – Acute PCI

Quality Measures	CY 2015	CY 2016
Tied to Gain-Sharing		
1. Hospitalization in Post-Trigger Window ($\leq 10\%$)	1.0%	0.7%
Informational Only		
1. Multiple-vessel PCI (<i>rate not indicative of performance</i>)	16.0%	15.9%
2. Staged PCI (<i>rate not indicative of performance</i>)	3.6%	2.9%



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Episode Quality Measures – Non-acute PCI

Quality Measures	CY 2015	CY 2016
Tied to Gain-Sharing		
1. Hospitalization in Post-Trigger Window ($\leq 10\%$)	0.0%	1.6%
Informational Only		
1. Multiple-vessel PCI (<i>rate not indicative of performance</i>)	14.1%	16.4%
2. Staged PCI (<i>rate not indicative of performance</i>)	3.3%	3.1%



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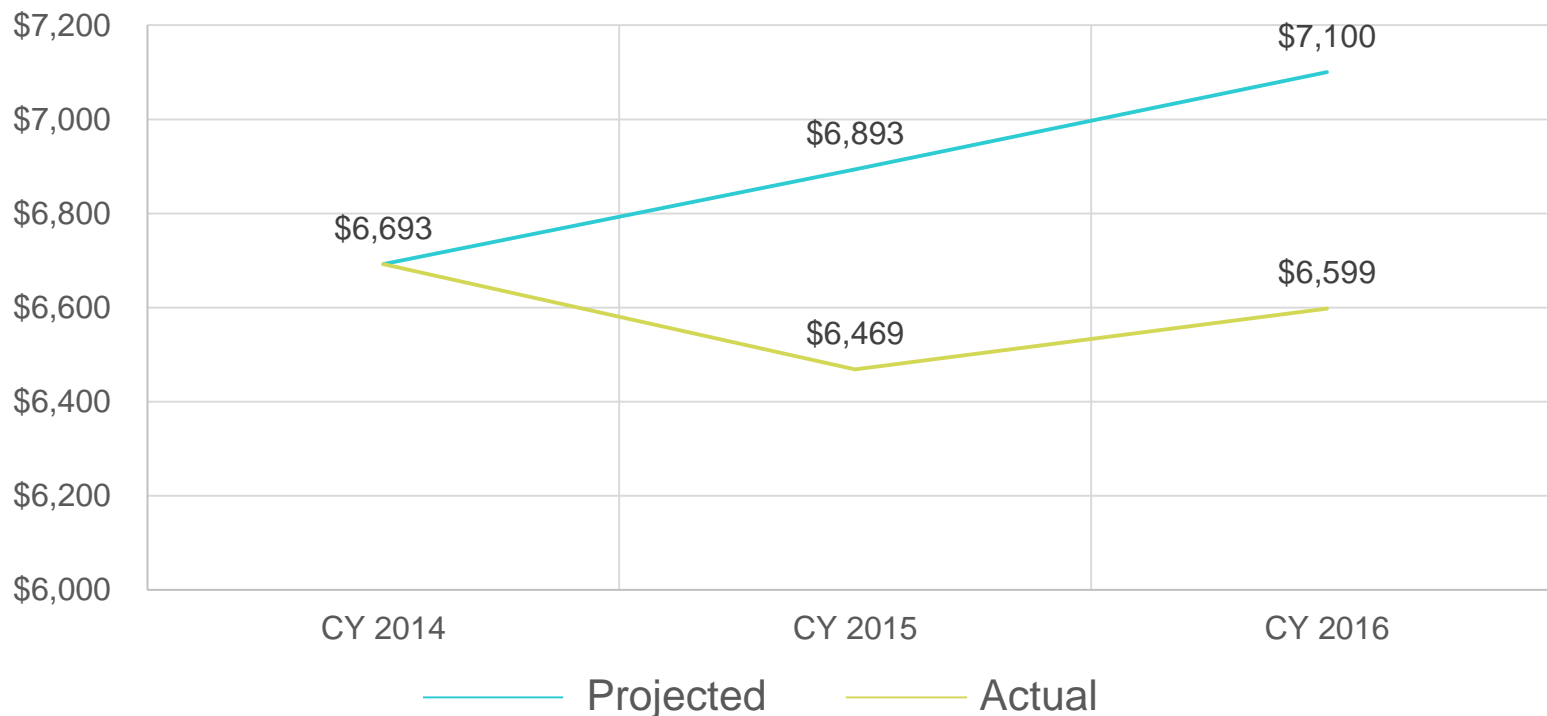
Episodes estimated savings for 2016 is approximately **\$14.5 million** due to episodes' risk adjusted cost being less than projected medical trend of a 3% annual increase

Comparison of Projected and Actual Avg. Risk-Adjusted Episode Cost, CY 2016

Episode Type	Projected	Actual	Estimated Savings per Episode	Percent	Number of Valid Episodes	Total Estimated Savings
Total	-	-	-	-	45,188	\$14,548,603
Perinatal	\$7,100	\$6,599	\$501	7.1%	22,090	\$11,065,302
Acute Asthma Exacerbation	\$1,249	\$1,067	\$182	14.6%	12,939	\$2,358,909
Total Joint Replacement	\$12,855	\$11,878	\$977	7.6%	460	\$449,608
Cholecystectomy	\$4,653	\$4,591	\$61	1.3%	2,110	\$129,452
Colonoscopy	\$1,112	\$1,082	\$30	2.7%	2,929	\$87,366
COPD	\$2,390	\$2,253	\$136	5.7%	4,116	\$561,376
Acute PCI	\$9,376	\$9,284	\$92	1.0%	416	\$38,279
Non-acute PCI	\$6,926	\$8,033	-\$1,107	-16.0%	128	-\$141,689

Savings From Perinatal Episode

Analysis of Risk-Adjusted Cost Trend, Perinatal Episode
CY 2014 – CY 2016



Estimated adjusted episode cost for CY 2016, based on 3% annual increase (Projected) = \$156,844,747

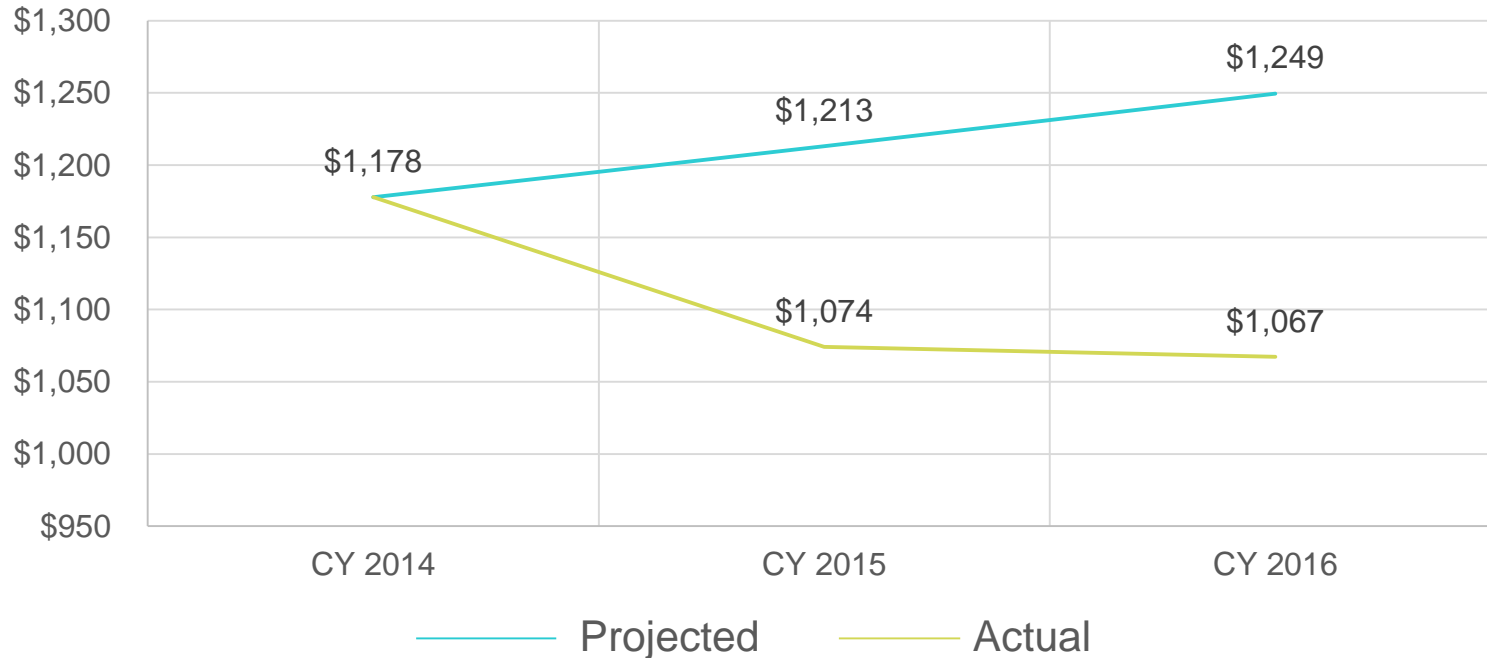
Estimated adjusted episode cost for CY 2016, based on MCO reports with 6 months claims run-out (Actual) = \$145,779,445

Total Estimated Savings = \$11,065,302



Savings From Asthma Episode

Analysis of Risk-Adjusted Cost Trend, Asthma Episode
CY 2014 – CY 2016



Estimated adjusted episode cost for CY 2016, based on 3% annual increase (Projected) = \$16,167,121

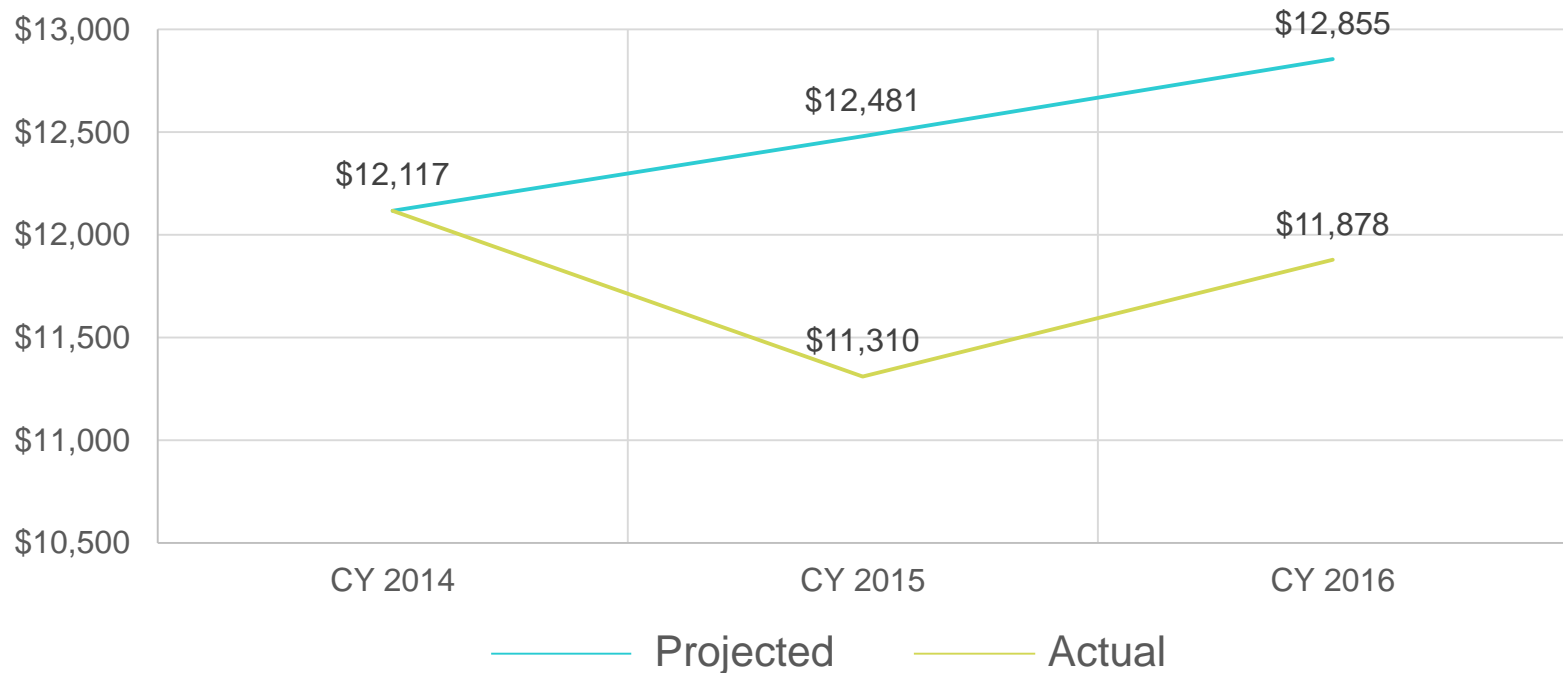
Estimated adjusted episode cost for CY 2016, based on MCO reports with 6 months claims run-out (Actual) = \$13,808,211



Total Estimated Savings = \$2,358,909

Savings From Total Joint Replacement Episode

Analysis of Risk-Adjusted Cost Trend, TJR Episode
CY 2014 – CY 2016



Estimated adjusted episode cost for CY 2016, based on 3% annual increase (Projected) = \$5,913,434

Estimated adjusted episode cost for CY 2016, based on MCO reports with 6 months claims run-out (Actual) = \$5,463,827

Total Estimated Savings = \$449,608



Estimate of Risk Share and Gain Share, CY 2016, With One-Time Risk Share Adjustment

Total TennCare: Blue Care, Amerigroup, and United			
	Gain Share	Risk Share	Balance
Perinatal	\$777,731	\$359,947	\$417,784
Acute Asthma Exacerbation	\$13,318	\$50,558	(\$37,240)
Total Joint Replacement	\$5,556	\$29,513	(\$23,958)
Cholecystectomy	\$22,735	\$25,997	(\$3,262)
Colonoscopy	\$18,841	\$22,299	(\$3,458)
COPD	\$55,552	\$7,285	\$48,267
Acute PCI	\$27,989	\$37,720	(\$9,732)
Non-acute PCI	\$15,171	\$9,072	\$6,098
Total	\$936,893	\$542,393	\$394,500