

Hospital Index Reporting Demo



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Department of Health Care
Policy & Financing

Step 1: Identify Episodes

A. PY2: Q4: Current State Assessment of Top 5 Episodes Driving the Hospital Index Score

Component of Q4 milestone each PY beginning with PY2 - Required

In the chart below, list the top 5 episodes with the greatest weighted impact on your Hospital Index score and indicate what type of action is needed to achieve the state set benchmark (ie. Maintain performance or improve)?

	Top 5 Episodes	Maintain or Improve Performance?
1		
2		
3		
4		
5		

- Go to “2. Index Score Calculation” dashboard
- Use “Peer Group Index Score Breakdown” and select the highest 5 episodes
- These will be different for each hospital - this is just a Demo



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Index Score Calculation

Blinded Hospital Name: DEMO HOSPITAL	Risk Adjusted/Unadjusted Unadjusted	Unadjusted Index Score: 101.33	Unadj AAE %: 3.66%	Unadj Episode Count: 5,922
	Hospital Name DEMO HOSPITAL	Adjusted Index Score: 97.36	Adj AAE %: 1.95%	Adj Episode Count: 5,922

Episode Description (Risk Adj. Detail Deliverable)	Total Cost	AAE Cost	AAE %	Peer Group AAE %	Hospital Index Score Breakdown	Peer Group Index Score Breakdown	Episode Count
Bariatric Surgery	\$665,470	\$30,559	4.59%	4.85%	1.84	1.94	66
Breast Biopsy	\$207,920	\$26	0.01%	0.07%	0.00	0.00	132
C-Section	\$4,941,842	\$157,087	3.18%	2.91%	3.29	3.01	697
CABG &/or Valve Procedures	\$1,049,544	\$56,960	5.43%	5.49%	3.60	3.63	24
Cataract Surgery	\$154,215	\$2,385	1.55%	4.12%	0.11	0.30	59
Colonoscopy	\$788,101	\$7,887	1.00%	1.73%	0.07	0.12	656
Colorectal Resection	\$1,197,227	\$166,019	13.87%	12.43%	53.49	1. 47.97	47
Coronary Angioplasty	\$1,334,918	\$142,514	10.68%	7.19%	17.31	2. 11.66	82
Gall Bladder Surgery	\$1,687,452	\$71,080	4.21%	5.39%	5.66	3. 7.24	258
Hip Replacement & Hip Revision	\$790,515	\$24,482	3.10%	4.32%	1.17	1.64	64
Hysterectomy	\$838,811	\$20,989	2.50%	5.50%	1.84	5. 4.04	141
Knee Arthroscopy	\$878,981	\$12,633	1.44%	1.46%	0.07	0.07	144
Knee Replacement & Knee Revision	\$1,340,163	\$47,177	3.52%	4.38%	2.17	2.70	98
Lumbar Laminectomy	\$338,958	\$1,784	0.53%	5.38%	0.17	1.74	37
Lumbar Spine Fusion	\$587,663	\$36,465	6.21%	3.96%	2.04	1.30	24
Lung Resection	\$173,075	\$6,757	3.90%	9.88%	1.82	4. 4.62	7
Mastectomy	\$328,069	\$12,672	3.86%	6.17%	1.20	1.92	36
Pacemaker / Defibrillator	\$648,476	\$22,793	3.51%	2.33%	0.30	0.20	30
Prostatectomy	\$37,112	\$1,206	3.25%	6.57%	0.15	0.31	4
Shoulder Replacement	\$152,129	\$1,423	0.94%	2.10%	0.01	0.03	14
Tonsillectomy	\$962,216	\$42,043	4.37%	3.90%	1.72	1.53	277
Transurethral resection prostate	\$34,133	\$487	1.43%	10.72%	0.19	1.42	6
Upper GI Endoscopy	\$1,892,492	\$70,438	3.72%	3.27%	2.00	1.76	964
Vaginal Delivery	\$9,872,870	\$193,901	1.96%	1.52%	1.11	0.86	2,055
Grand Total	\$30,902,352	\$1,129,767	3.66%	*	*	*	5,922

Step 1: Identify Episodes

A. PY2: Q4: Current State Assessment of Top 5 Episodes Driving the Hospital Index Score

Component of Q4 milestone each PY beginning with PY2 - Required

In the chart below, list the top 5 episodes with the greatest weighted impact on your Hospital Index score and indicate what type of action is needed to achieve the state set benchmark (ie. Maintain performance or improve)?

	Top 5 Episodes	Maintain or Improve Performance?
1	Colorectal Resection (47.97)	
2	Coronary Angioplasty (11.66)	
3	Gallbladder Surgery (7.24)	
4	Lung Resection (4.62)	
5	Hysterectomy (4.04)	

- These will be different for each hospital - this is just a Demo



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Step 2: Maintain or Improve

A. PY2: Q4: Current State Assessment of Top 5 Episodes Driving the Hospital Index Score

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In the chart below, list the top 5 episodes with the greatest weighted impact on your Hospital Index score and indicate what type of action is needed to achieve the state set benchmark (ie. Maintain performance or improve)?

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5	Hysterectomy (4.04)	

- Next, use “Hospital Index Score Breakdown” to compare your performance
- If your score is lower than the peer group, your goal is to maintain. If it is higher, your goal is to improve

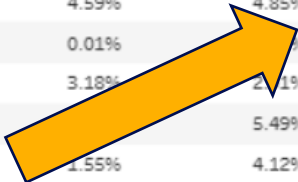




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- 1. 47.97
- 2. 11.66
- 3. 7.24
- 5. 4.04
- 4. 4.62

Step 2: Maintain or Improve

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	Top 5 Episodes	Maintain or Improve Performance?
1	Colorectal Resection (47.97)	Improve (53.49)
2	Coronary Angioplasty (11.66)	Improve (17.31)
3	Gallbladder Surgery (7.24)	Maintain (5.66)
4	Lung Resection (4.62)	Maintain (1.82)
5	Hysterectomy (4.04)	Maintain (1.84)

- These will be different for each hospital - this is just a Demo



Step 3: Episode Detail

For each episode, please answer the following questions (Required):

1. Number of clients associated with specified episode:
2. Top 2 categories of service for each episode:
3. Consider factors such as the procedure code or DRG, provider type, service location, and specific rendering/attending providers that drive high/low PAC in this episode to answer the following questions:
 - What is driving PAC?
 - What is contributing to low PAC?
 - Are there any themes/trends in services used more/less within an episode type that are associated with high/low PAC?
 - Provide demographic stratifications associated with this episode including: age, race, gender, and county.

- Answer all questions for each of the 5 episode types identified in the previous two steps
- Colorectal Resection will be used for demonstration

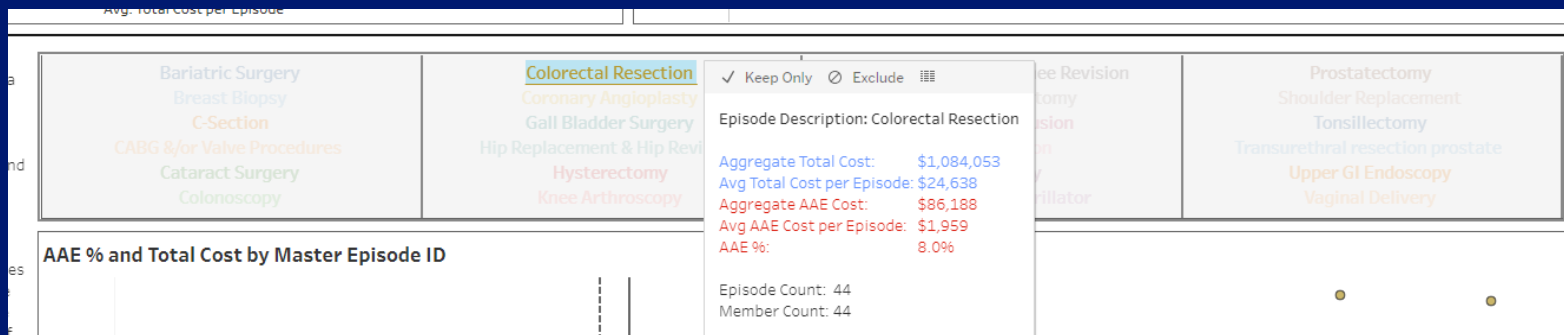


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Colorectal Resection Q1

- **Q:** “1. Number of clients associated with specified episode:”
- **A:** 44 clients (sample answer using Demo Data)



- To Find: Go to “3. Hospital Detail Dashboard,” hover over the episode type in the grey box.
- Click on the text (in this case “Colorectal Resection”) to filter down the rest of the dashboard

Colorectal Resection Q2

- Q: “Top 2 categories of service for each episode:”
- A: Inpatient, Professional (sample answer using Demo Data)

COS	Total Cost	AAE Cost	AAE %	Episode Count
Inpatient	\$838,481	\$47,974	5.7%	43
Professional	\$119,699	\$24,002	20.1%	41
Outpatient - ER	\$9,266	\$3,397	36.7%	16
Home Health	\$6,178	\$2,222	36.0%	7
Outpatient - Non-..	\$11,116	\$2,173	19.5%	26
DME	\$10,734	\$1,816	16.9%	17

- To Find: Stay on “3. Hospital Detail Dashboard.” You should have already filtered down to the episode in question.
- Use the “COS” chart near the middle-right of the page, which is sorted by AAE cost by default. List the first two lines on the table in order.

Colorectal Resection Q3

- **Q:** “Consider factors such as the procedure code or DRG, provider type, service location, and specific rendering/attending providers that drive high/low PAC in this episode to answer the following questions:”
- **To Find:** For this 4-part question, the first 3 answers are found using these 4 tables at the bottom of the Hospital Detail Dashboard: Service, AAE Event Desc, APR DRG Desc, and Prmy Diag Desc (see next slide)
- The demographic stratifications can be found in the Members Dashboard.



Colorectal Resection Q3

Services, Primary Diagnoses, and DRGs
*Please note that inpatient claims pay off DRGs and do not list services; outpatient claims do not list or pay off DRGs and do list services

Proc Code (All) DRG Code (All)

Service	Total Cost	AAE Cost	AAE %	Episode Count
OFFICE/OUTPATIENT VI...	\$172,423	\$30,880	17.9%	1,074
OFFICE/OUTPATIENT VI...	\$234,846	\$27,024	11.5%	1,369
EMERGENCY DEPT VISIT	\$119,627	\$26,500	22.2%	668
SUBSEQUENT HOSPITA...	\$73,224	\$23,852	32.6%	313
HYDRATE IV INFUSION ...	\$68,767	\$22,111	32.2%	253
CRITICAL CARE FIRST H...	\$60,085	\$19,805	33.0%	159
SUBSEQUENT HOSPITA...	\$77,432	\$18,673	24.1%	623
EMERGENCY DEPT VISIT	\$54,096	\$16,907	31.3%	453
INITIAL HOSPITAL CARE	\$65,177	\$12,628	19.4%	303
THER/PROPH/DIAG IV I...	\$36,375	\$12,070	33.2%	133
OXYGEN CONCENTRAT...	\$16,398	\$10,743	65.5%	103
OFFICE/OUTPATIENT VI...	\$41,025	\$8,128	19.8%	280
HYDRATION IV INFUSIO...	\$18,579	\$8,101	43.6%	57
HHS/HOSPICE OF RN EA...	\$14,975	\$7,731	51.6%	20
HOSPITAL DISCHARGE ...	\$24,931	\$7,443	29.9%	284
CT ABD & PELV W/CONT...	\$56,665	\$7,237	12.8%	221
ALS1-EMERGENCY	\$31,897	\$7,197	22.6%	144

APR DRG Desc	Total Cost	AAE Cost	AAE %	Episode Count
Postpartum Diags w/o Proc	\$130,110	\$113,846	87.5%	42
Septicemia & Disseminat...	\$160,920	\$82,185	51.1%	16
Rehabilitation	\$67,162	\$29,236	43.5%	7
Renal Failure	\$34,909	\$26,041	74.6%	5
Mod Ext Proc Unrel To Diag	\$35,879	\$19,870	55.4%	3
Acute & Subacute Endocar...	\$18,646	\$18,646	100.0%	1
Complic of Gi Device or Pr...	\$15,670	\$15,670	100.0%	1
Post-Op Device Inf w O.R. ...	\$13,980	\$13,980	100.0%	2
Skin Graft for Connect Tis ...	\$13,882	\$13,882	100.0%	1
Ext Proc Unrel To Diag	\$13,631	\$13,631	100.0%	1
Oth Complics of Treatment	\$18,927	\$11,654	61.6%	4
CVA & Precereb Occl w Inf...	\$11,451	\$11,451	100.0%	1
Acute Myocardial Infarcti...	\$26,392	\$10,798	40.9%	6
Knee & Lower Leg Procs E...	\$17,385	\$8,625	49.6%	2
O.R. Proc for Complic of C...	\$12,750	\$7,132	55.9%	2
Nonext Proc Unrel To Diag	\$5,153	\$5,153	100.0%	2
Maj Gastroint & Peritonea...	\$11,881	\$4,736	39.9%	2

AAE Code (All) Prmy Dx (All)

AAE Event Desc	Total Cost	AAE Cost	AAE %	Episode Cou...
Null	\$23,225,184	\$456,169	2.0%	5,721
Abscess of intestine	\$0	\$0		1
Ac embism and thrombos unsp...	\$57	\$57	100.0%	1
Ac embism and thrombos unsp...	\$69	\$69	100.0%	1
Acc pnctr & lac of a circ sys or...	\$6,264	\$0	0.0%	1
Acc pnctr & lac of a GU sys or...	\$4,198	\$798	19.0%	4
Acc pnctr & lac of left eye and ...	\$646	\$0	0.0%	1
Accidental pnctr & lac of a dg...	\$0	\$0		1
Accidental pnctr & lac of a GU ...	\$4,908	\$0	0.0%	1
Acidosis	\$45,561	\$4,429	9.7%	43
Acute and chr resp failure, un...	\$374	\$374	100.0%	2
Acute and chronic respiratory...	\$205	\$205	100.0%	2
Acute and subacute infective ...	\$2,026	\$2,026	100.0%	2
Acute combined systolic and ...	\$9,998	\$0	0.0%	1
Acute cystitis with hematuria	\$3,027	\$3,027	100.0%	15
Acute cystitis without hemat...	\$12,102	\$3,192	26.4%	22
Acute diastolic (congestive) h...	\$79	\$79	100.0%	2

Prmy Diag Desc	Total Cost	AAE Cost	AAE %	Episode Count
Null	\$1,596,116	\$104,361	6.5%	3,984
SEPSIS, UNSPECIFIED O...	\$391,660	\$65,254	16.7%	43
SEVERE PRE-ECLAMPSIA...	\$49,694	\$39,065	78.6%	51
ACUTE KIDNEY FAILURE...	\$44,787	\$32,078	71.6%	32
ENDOMETRITIS FOLLOW...	\$23,125	\$23,125	100.0%	22
OTH POSTPROCEDURAL ...	\$29,580	\$23,118	78.2%	20
INFECT/INFLM REACTIO...	\$21,994	\$21,994	100.0%	3
ACUTE AND SUBACUTE I...	\$20,721	\$20,571	99.3%	2
DISEASES OF THE DIGES...	\$19,774	\$18,653	94.3%	8
OTHER SPECIFIED SEPSIS	\$26,984	\$18,201	67.5%	3
DELAYED AND SECONDA...	\$18,821	\$16,422	87.3%	40
ENCOUNTER FOR OTHER...	\$42,927	\$14,890	34.7%	17
INFECT/INFLM REACTIO...	\$29,847	\$14,098	47.2%	3
NONTRAUMATIC SUBAC...	\$14,037	\$14,037	100.0%	1
DISRUPTION OF EXTERN...	\$13,241	\$13,241	100.0%	12
OTHER ACUTE POSTPRO...	\$50,012	\$13,113	26.2%	251
CEREBRAL INFARCTION, ...	\$12,324	\$12,269	99.6%	11



Colorectal Resection Q3.1

- Q: “What is driving PAC?”
- Sample Answer:

Many things are driving PAC (or AAE). Our Highest AAE cost by service is in “Subsequent Hospital Care (99233),” followed by “Critical Care First Hour” and “Subsequent Hospital Care (99232).” We also have high AAE with a “Null” AAE description, which indicates we have high costs from readmissions/reoperations.

Explanation for this answer on next slide - HOWEVER, you can provide additional context here from your own data, experience, policies/procedures, etc.



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Colorectal Resection Q3.1

- Q: “What is driving PAC?”

Service	Total Cost	AAE Cost	AAE %	Episode Count
SUBSEQUENT HOSPITA..	\$6,907	\$4,662	67.5%	14
CRITICAL CARE FIRST H..	\$4,897	\$3,788	77.4%	10
SUBSEQUENT HOSPITA..	\$6,658	\$3,746	56.3%	19
HHS/HOSPICE OF RN EA..	\$5,485	\$2,222	40.5%	5
INITIAL HOSPITAL CARE	\$3,807	\$1,829	48.1%	14
CT ABD & PELV W/CONT..	\$10,856	\$1,757	16.2%	32
EMERGENCY DEPT VISIT	\$4,847	\$1,277	26.3%	21
OFFICE/OUTPATIENT VI..	\$2,535	\$962	37.9%	21
OFFICE/OUTPATIENT VI..	\$4,549	\$819	18.0%	22
ALS1-EMERGENCY	\$1,601	\$803	50.2%	8
HOSPITAL DISCHARGE ..	\$740	\$657	88.7%	8
INITIAL HOSPITAL CARE	\$1,687	\$656	38.9%	12
BLOOD CULTURE FOR B..	\$595	\$595	100.0%	4
EMERGENCY DEPT VISIT	\$1,469	\$533	36.3%	10
ANESTH SURG UPPER A..	\$16,493	\$505	3.1%	25
COMPREHEN METABOL..	\$1,541	\$443	28.8%	23
EMERGENCY DEPT VISIT	\$468	\$416	89.0%	4

AAE Event D[+]	Total Cost	AAE Cost	AAE %	Episode Cou..
Null	\$720,706	\$47,974	6.7%	42
Accidental pnctr & lac of a dg..	\$0	\$0		1
Acidosis	\$698	\$698	100.0%	9
Acute and chronic respiratory..	\$81	\$81	100.0%	1
Acute cystitis with hematuria	\$226	\$226	100.0%	1
Acute cystitis without hemat..	\$611	\$611	100.0%	2
Acute embolism and thrombo..	\$953	\$953	100.0%	1
Acute kidney failure, unspecif..	\$1,483	\$1,483	100.0%	6
Acute respiratory failure wit..	\$1,503	\$1,503	100.0%	9
Adverse effect of antineoplas..	\$0	\$0		2
Adverse effect of unsp antiep..	\$0	\$0		1
Adverse effect of unsp drug/..	\$220	\$220	100.0%	1
Atelectasis	\$140	\$140	100.0%	4
Bacteremia	\$560	\$560	100.0%	1
Chronic respiratory failure wi..	\$0	\$0		1
Colostomy complication, unsp..	\$1,975	\$1,975	100.0%	1
Colostomy malfunction	\$79	\$79	100.0%	1

Notes:

- These tables were used due to the clear trend in readmissions/reoperations. You should also consider APR DRG Desc and Prmy Diag Desc in your answer.
- The + button can be used on these tables to show Proc and AAE Codes



Colorectal Resection Q3.2

- Q: “What is contributing to low PAC?”
- Sample Answer:

“For Colorectal Resection, we have higher AAE than our peers. Our index score is 53.49 compared to our peer group, which is at 47.97. However, here is what Demo Hospital is doing that keeps AAE low: ...”

Here, you should provide additional context from your own data, experience, policies/procedures, etc. that are contributing to success (low AAE) in this episode.



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Colorectal Resection Q3.3

- **Q:** “Are there any themes/trends in services used more/less within an episode type that are associated with high/low PAC?”
- **Sample Answer:**

“For Colorectal Resection, most of our services are relatively low volume (1-25 episodes per service) and almost all have some AAE%, with most in the 25-75% AAE range. Here are some clinical trends we’ve noticed:...”

Here, you should provide additional context from your own data, experience, policies/procedures, etc. If you are not a clinician, you may consider consulting with one in your org.



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Colorectal Resection Q4

- Q:

“Provide demographic stratifications associated with this episode including: age, race, gender, and county.”

- To Find:

This information is on the Members Dashboard. Use the bar chart at the top of the dashboard by selecting demographic variables. For the purposes of this question, use Avg. AAE Cost per Episode. Note that the thickness of the bars corresponds with episode volume.

Note - Member county data is not present in this Demo but should be included in your report

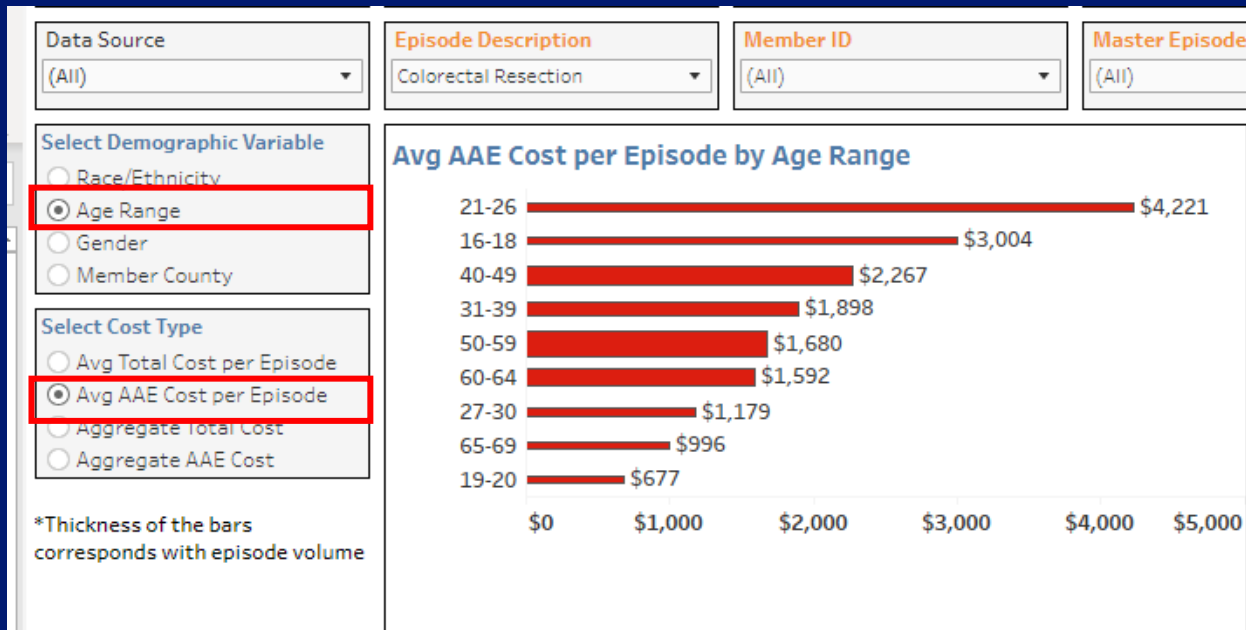


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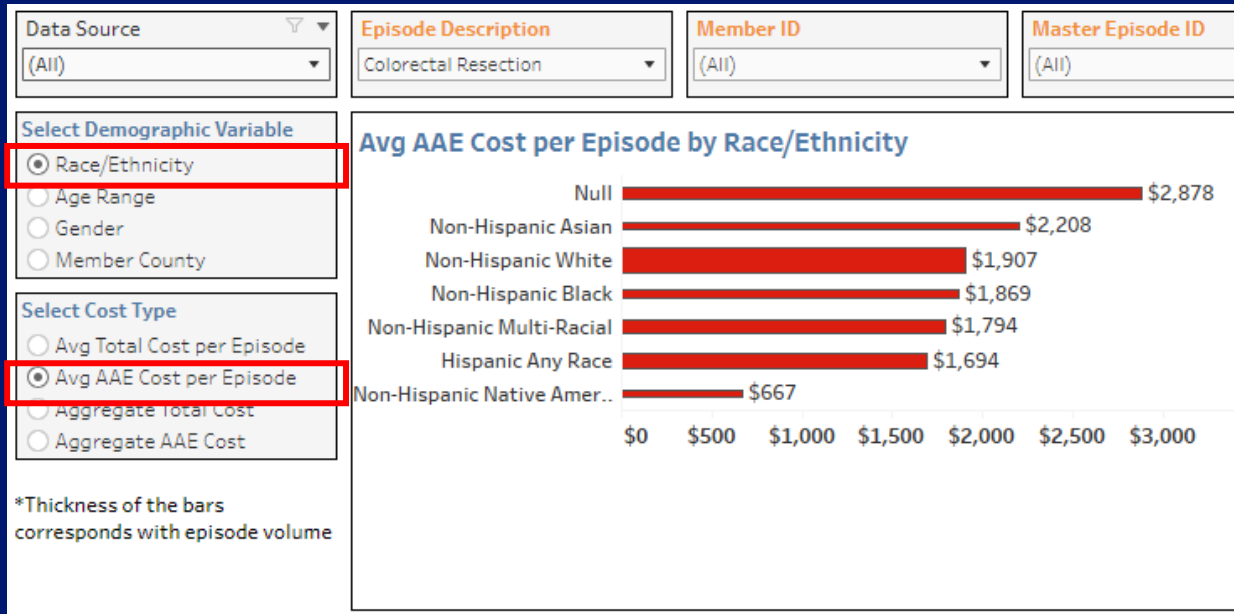
Colorectal Resection Q4.1

- **Q:** “Provide demographic stratifications associated with this episode including: age”
- **Sample Answer:** By age, our member group with the highest average AAE is 21-26-year-old members at \$4,221. However, the bulk of our episodes by volume are for ages 31-64, where there is significant AAE as well.



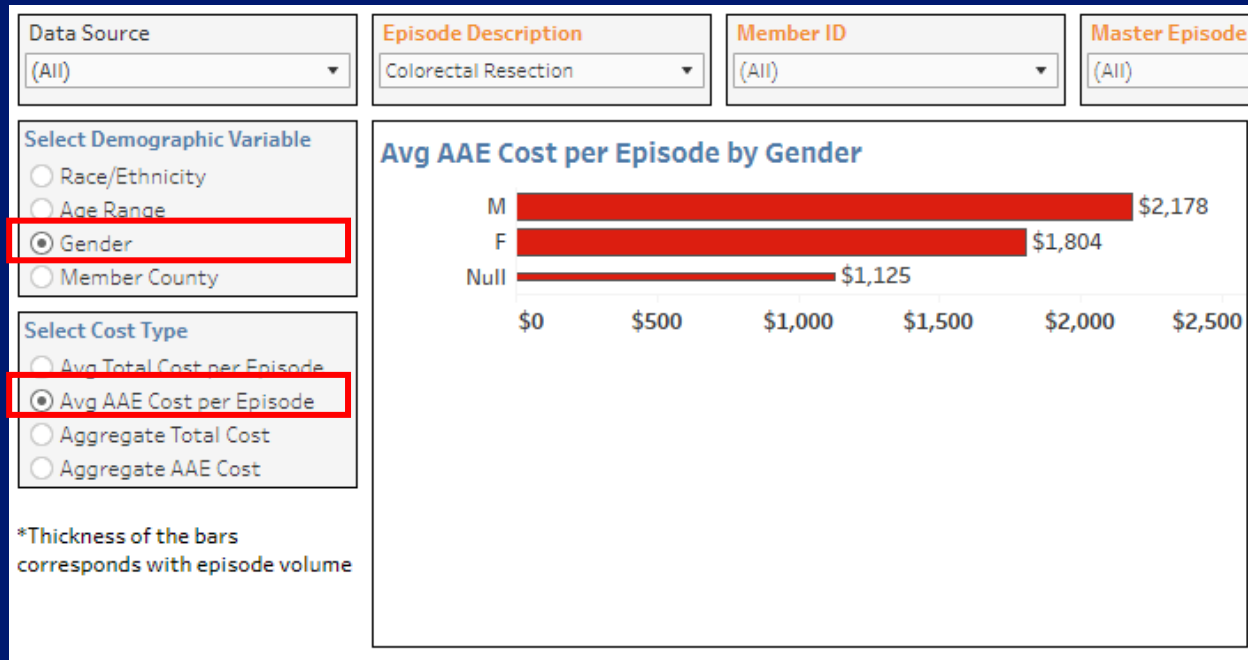
Colorectal Resection Q4.2

- **Q:** “Provide demographic stratifications associated with this episode including: race”
- **Sample Answer:** Our highest average AAE cost is for members who are Non-Hispanic Asian at \$2,208, followed by members who are Non-Hispanic White at \$1,907. However, we have 293 episodes for Non-Hispanic white members, with only 6 episodes for members who are Non-Hispanic Asian.



Colorectal Resection Q4.3

- **Q:** “Provide demographic stratifications associated with this episode including: Gender”
- **Sample Answer:** Our volume of Colorectal resection episodes is about equal between genders, but Males have a higher average AAE per episode by \$374.





Questions? Email:

HCPF_prometheus@state.co.us



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Thank you!

