

## ASC Urology Surgery Measure Submission to PQM: Figures and Tables

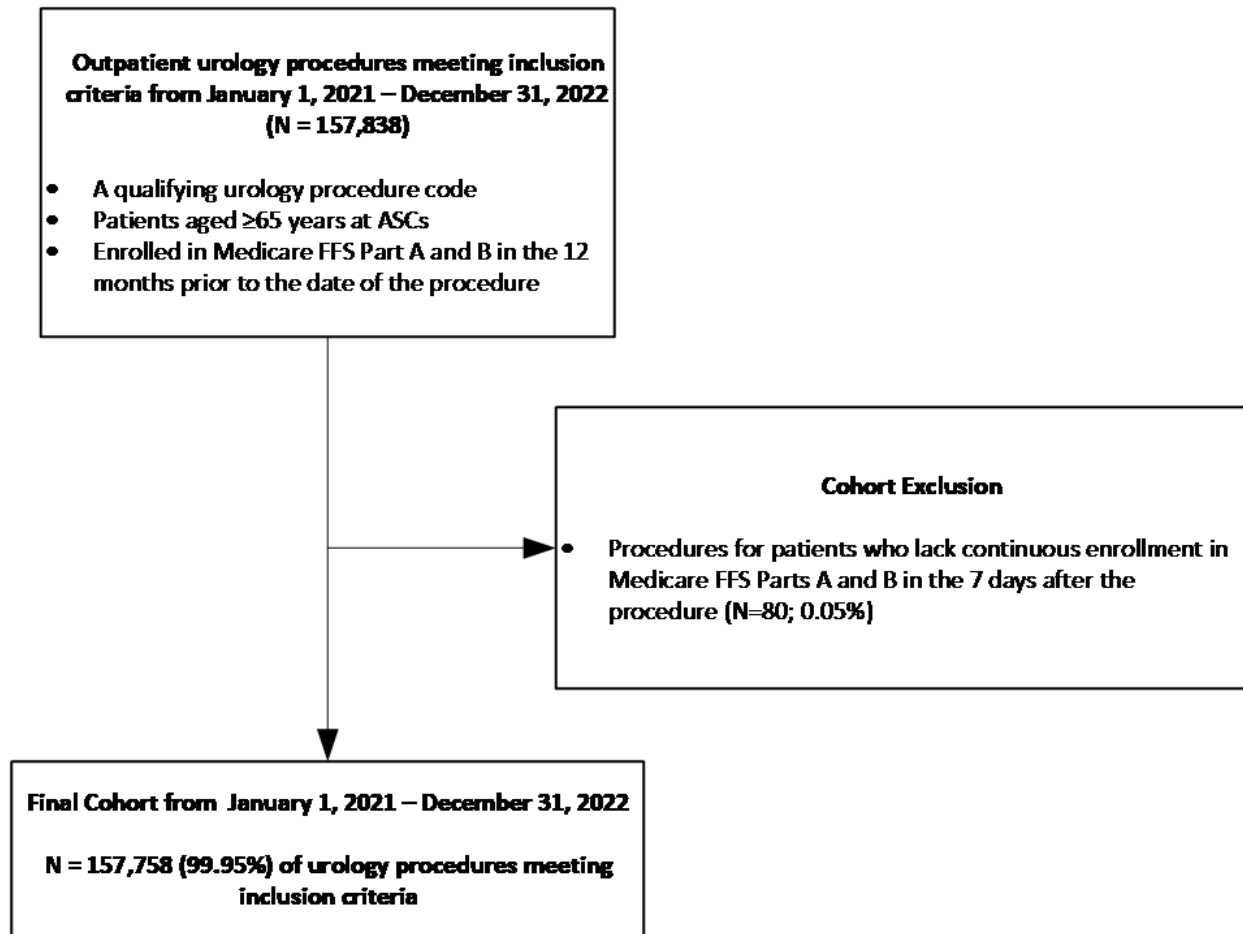
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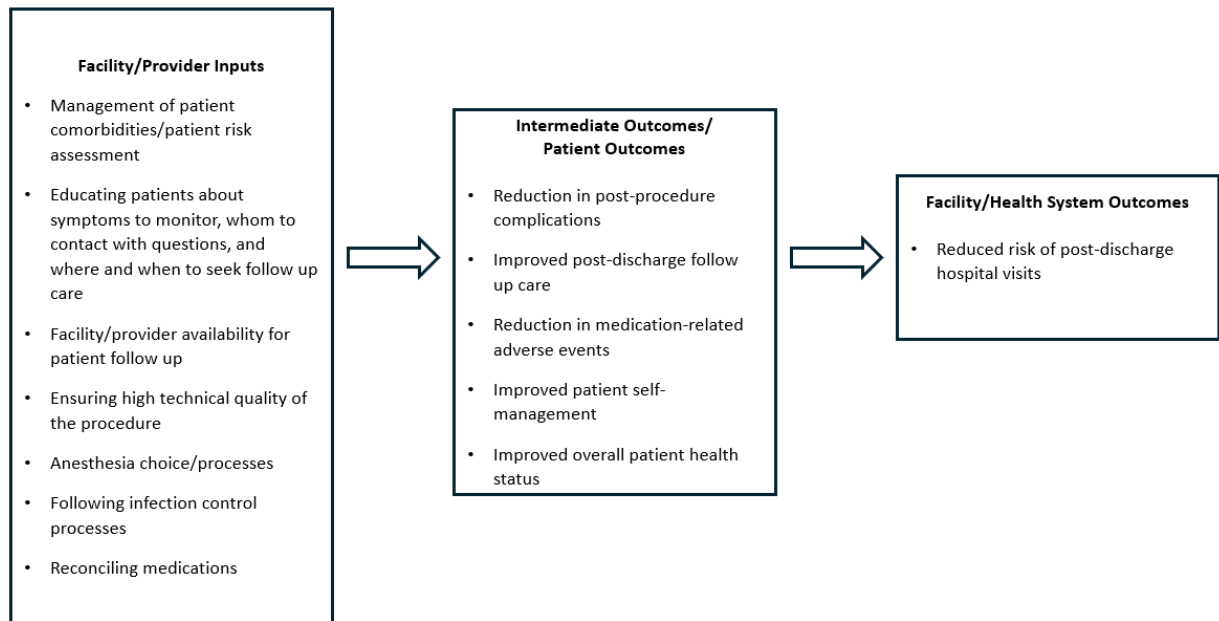
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Figure 1. ASC Urology: Cohort Flowchart



**Figure 2. ASC Urology Surgery: Logic Model**

The conceptual model for outpatient urologic surgery quality at an ASC, shown below, shows the pathway by which facilities can modify the outcome (all-cause, unplanned hospital visits within 7 days of the urologic ASC procedure). For example, the model identifies that patient-level factors, such as comorbidities, increase the risk of unplanned hospitals visits. Better management of the risk associated with these comorbidities may be a potential avenue for facilities to improve patients' post-procedure health status and reduce unplanned hospital visits. Provider-level factors (technical quality of the procedure, post-procedure provider accessibility), and facility-level factors (such as patient selection/risk assessment, pre- and post-discharge patient communication) may also contribute to the risk of unplanned hospital visits. Therefore, facilities may have opportunities to lower their unplanned hospital visit rates through quality-improvement efforts focused on patient, provider, and facility factors.



**Table 1. ASC Urology Surgery: Distribution of Measure Scores (2024 EM Dataset)**

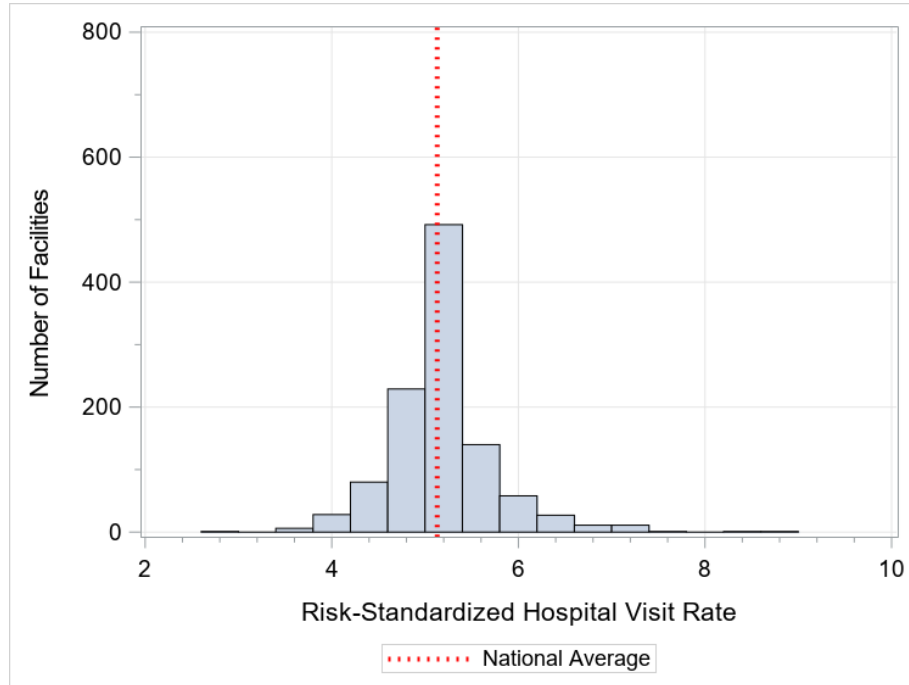
Characteristic	1/1/2021-12/31/2022
Number of facilities	1,086
Mean RSHV rate (SD)	5.16 (0.56)
Range (min – max)	2.94 – 8.85
25th percentile	4.91
50th percentile (median)	5.08
75th percentile	5.35

*Note: SD=standard deviation*

**Table 2. ASC Urology Surgery: Distribution of Measure Scores (2024 EM Dataset)**

	Overall	Min	Decile 1	Decile 2	Decile 3	Decile 4	Decile 5	Decile 6	Decile 7	Decile 8	Decile 9	Decile 10	Max
Mean Score	5.16	2.94	4.26	4.72	4.91	5.03	5.08	5.11	5.16	5.35	5.60	6.35	8.85
Entities	1,086	1	108	109	109	108	109	109	108	109	109	108	1
Total number of procedures	157,758	-	44,683	20,969	10,025	7,386	3,897	947	10,593	12,135	14,985	32,138	-

**Figure 3. ASC Urology Surgery: Distribution of Measure Scores**



**Table 3. ASC Urology Surgery: Distribution of Signal-To-Noise Reliability (EM 2024 dataset)**

Minimum Case Volume	Min-Max	25 <sup>th</sup> Percentile	50 <sup>th</sup> Percentile	75 <sup>th</sup> Percentile
>=1 procedure (n=1,086 facilities)	0.019-0.984	0.118	0.428	0.740
>=35 procedures (n=581 facilities)	0.402-0.984	0.573	0.720	0.849

**Table 4. ASC Urology Surgery: Distribution of Signal-To-Noise Reliability (for Facilities with At least 35 Procedures)**

Variable	Overall	Min	Decile 1	Decile 2	Decile 3	Decile 4	Decile 5	Decile 6	Decile 7	Decile 8	Decile 9	Decile 10	Max
Reliability	0.706	0.402	0.422	0.486	0.568	0.637	0.698	0.749	0.798	0.846	0.903	0.949	0.984
Measure score	5.19	5.11	5.31	5.26	5.27	5.15	5.08	5.22	5.29	5.08	5.18	5.04	6.81
Number of facilities	581	6	56	58	60	58	59	57	59	58	58	58	1
Number of procedures	152,863	210	2,134	2,874	4,128	5,335	7,113	8,892	12,223	16,823	28,853	64,488	3,107

**Table 5. ASC Urology Surgery: Frequency of Diagnosis Codes (Top 25) Associated with the Outcome (Post-Procedural Unplanned Hospital Visits)**

Principal Diagnosis Code (ICD-10)	Principal Diagnosis Code Description	Frequency Count	Cumulative Percent
R339	Retention of urine, unspecified	911	11.26
N390	Urinary tract infection, site not specified	438	16.67
A419	Sepsis, unspecified organism	319	20.61
N132	Hydronephrosis with renal and ureteral calculous obstruction	293	24.23
R310	Gross hematuria	232	27.10
R319	Hematuria, unspecified	201	29.58
N99820	Postprocedural hemorrhage of a genitourinary system organ or structure following a genitourinary system procedure	185	31.87
R338	Other retention of urine	165	33.91
T83091A	Other mechanical complication of indwelling urethral catheter, initial encounter	153	35.80
N179	Acute kidney failure, unspecified	135	37.46
N401	Benign prostatic hyperplasia with lower urinary tract symptoms	124	39.00
R109	Unspecified abdominal pain	120	40.48
N136	Pyonephrosis	115	41.90
T83098A	Other mechanical complication of other urinary catheter, initial encounter	110	43.26
N9989	Other postprocedural complications and disorders of genitourinary system	107	44.58
N200	Calculus of kidney	100	45.82
T839XXA	Unspecified complication of genitourinary prosthetic device, implant and graft, initial encounter	99	47.04
R55	Syncope and collapse	82	48.05
K5900	Constipation, unspecified	80	49.04
T8144XA	Sepsis following a procedure, initial encounter	76	49.98
R0789	Other chest pain	74	50.90

Principal Diagnosis Code (ICD-10)	Principal Diagnosis Code Description	Frequency Count	Cumulative Percent
N3001	Acute cystitis with hematuria	72	51.79
T83511A	Infection and inflammatory reaction due to indwelling urethral catheter, initial encounter	72	52.68
N23	Unspecified renal colic	63	53.45
G8918	Other acute postprocedural pain	62	54.22

**Table 6. ASC Urology Surgery: Frequency of Model Risk Factors**

Risk Factor (% unless otherwise indicated)	1/1/2021-12/31/2022
Total N	157,758
Age (years above 65): mean (SD)	9.99 (6.35)
Work Relative Value Units (work RVUs): mean (SD)	6.16 (3.45)
Benign prostatic hyperplasia with obstruction	29.19
Complications of specified implanted device or graft (CC 176)	4.89
Number of qualifying procedures: 1	89.53
Number of qualifying procedures: 2	9.61
Number of qualifying procedures: 3 or more	0.86
Poisonings and inflammatory allergic reactions (CC 175)	4.16
Major symptoms, abnormalities (CC 178)	62.06
Parkinson's and Huntington's diseases; seizure disorders and convulsions (CC 78, 79)	3.28
Ischemic heart disease (CC 86, 87, 88, 89)	26.37

**Table 7. ASC Urology Surgery: Facility-level Distribution of Patients with Social Risk Factors**

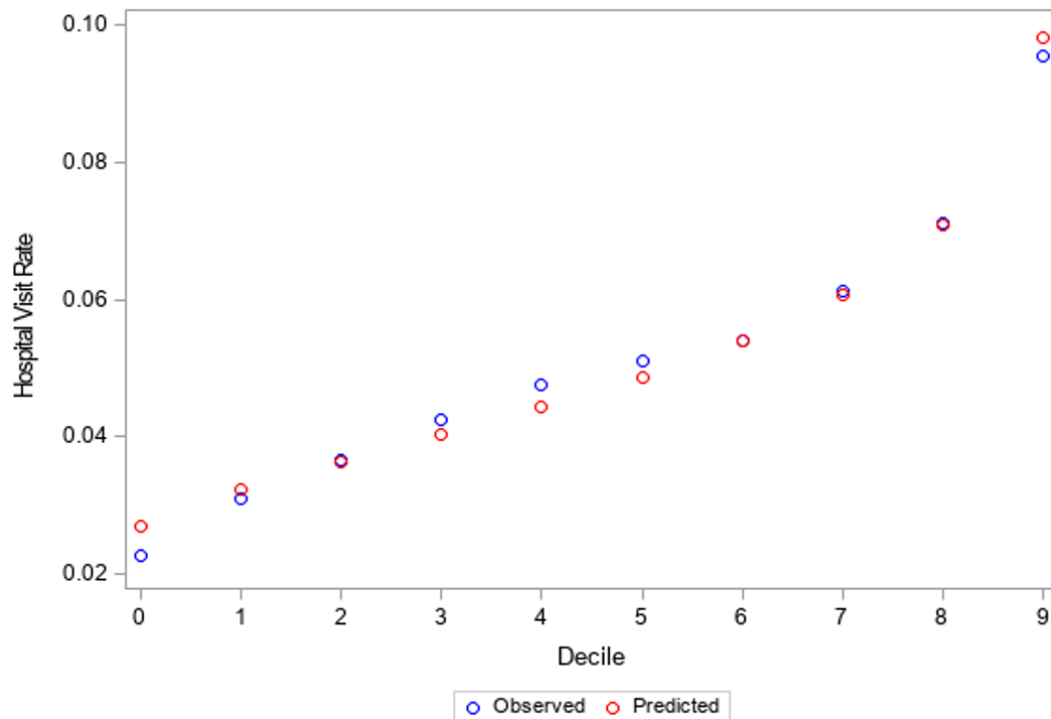
Statistic	Dual Eligibility (Count)	Dual Eligibility (Percent)	High ADI (Count)	High ADI (Percent)
25%	0	0%	0	0%
50% (median)	0	0%	1	1%
75%	3	2%	6	8%

**Table 8. ASC Urology Surgery: Model Risk Variable Odds Ratios (ORs) and 95% CIs**

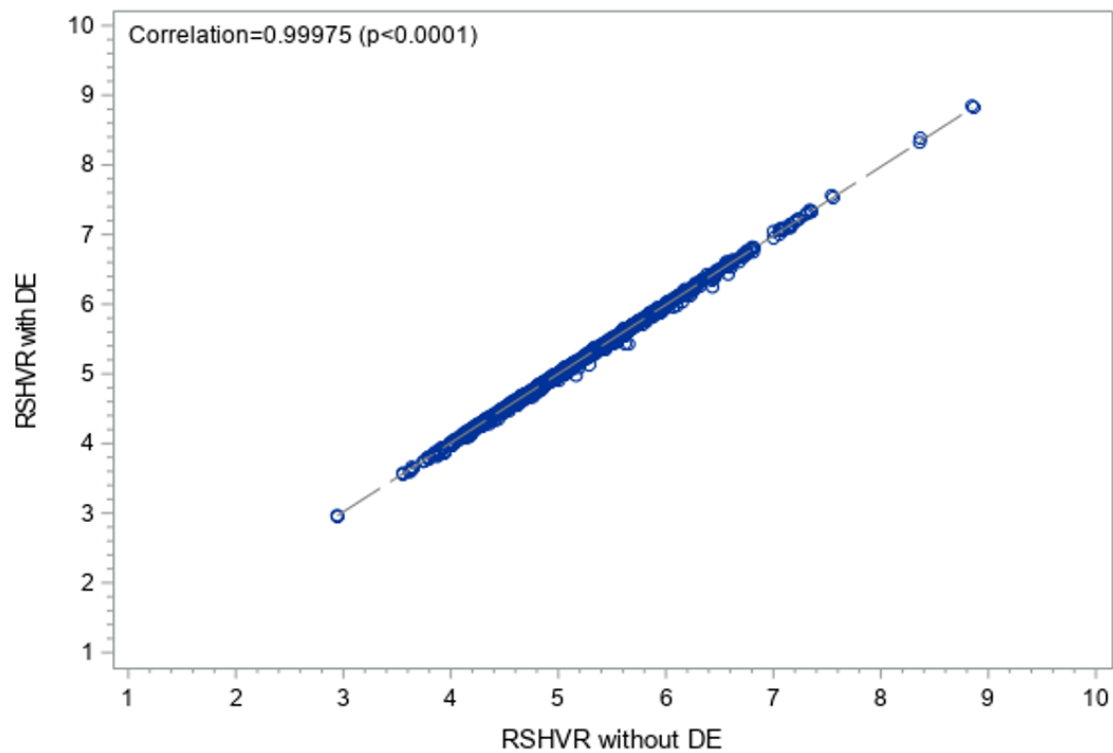
Risk Factor (% unless otherwise indicated)	1/1/2021-12/31/2022
Age (years above 65)	1.03 (1.02-1.03)
Work Relative Value Units	1.07 (1.07-1.08)
Benign prostatic hyperplasia with obstruction	1.25 (1.19-1.31)
Complications of specified implanted device or graft (CC 176)	1.46 (1.34-1.59)
Number of qualifying procedures: 1	Reference
Number of qualifying procedures: 2 vs 1	1.06 (0.98-1.15)
Number of qualifying procedures: 3 or more vs 1	1.16

Risk Factor (% unless otherwise indicated)	1/1/2021-12/31/2022
	(1.01-1.32)
Poisonings and inflammatory allergic reactions (CC 175)	1.30 (1.18-1.44)
Major symptoms, abnormalities (CC 178)	1.22 (1.17-1.29)
Parkinson's and Huntington's diseases; seizure disorders and convulsions (CC 78, 79)	1.27 (1.13-1.42)
Ischemic heart disease (CC 86, 87, 88, 89)	1.28 (1.22-1.35)

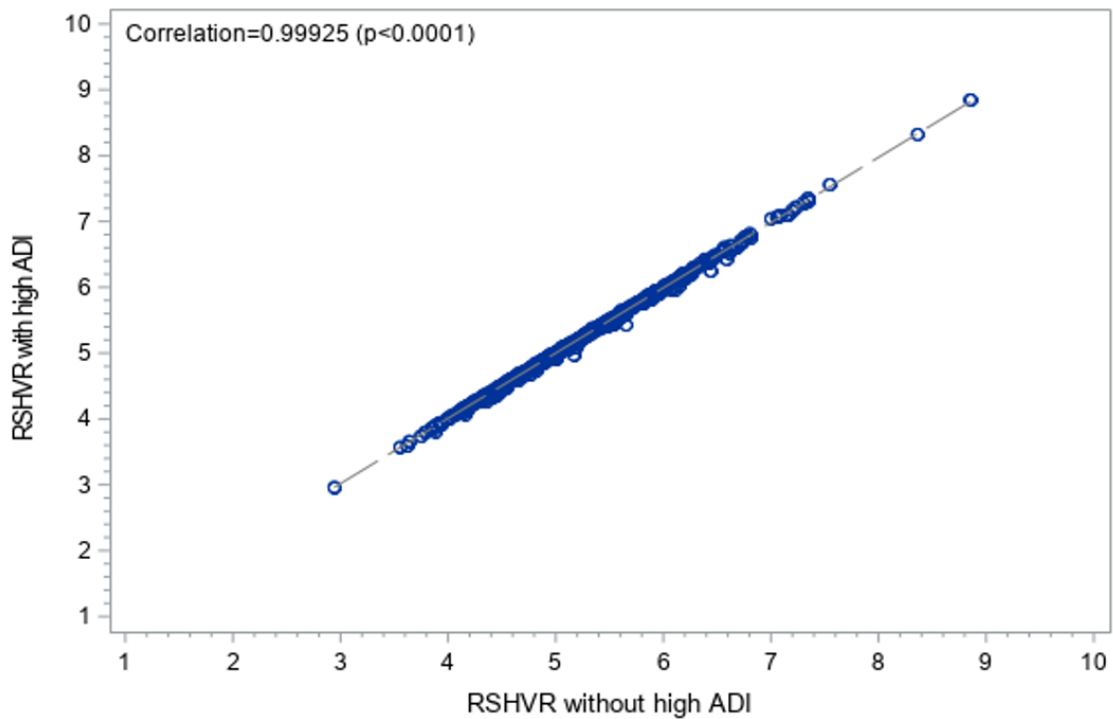
**Figure 4. ASC Urology Surgery: Risk-decile Plot (All Patients)**



**Figure 5. ASC Urology Surgery: Correlation Between Measure Scores Calculated with and without the DE Variable in the Risk Model**

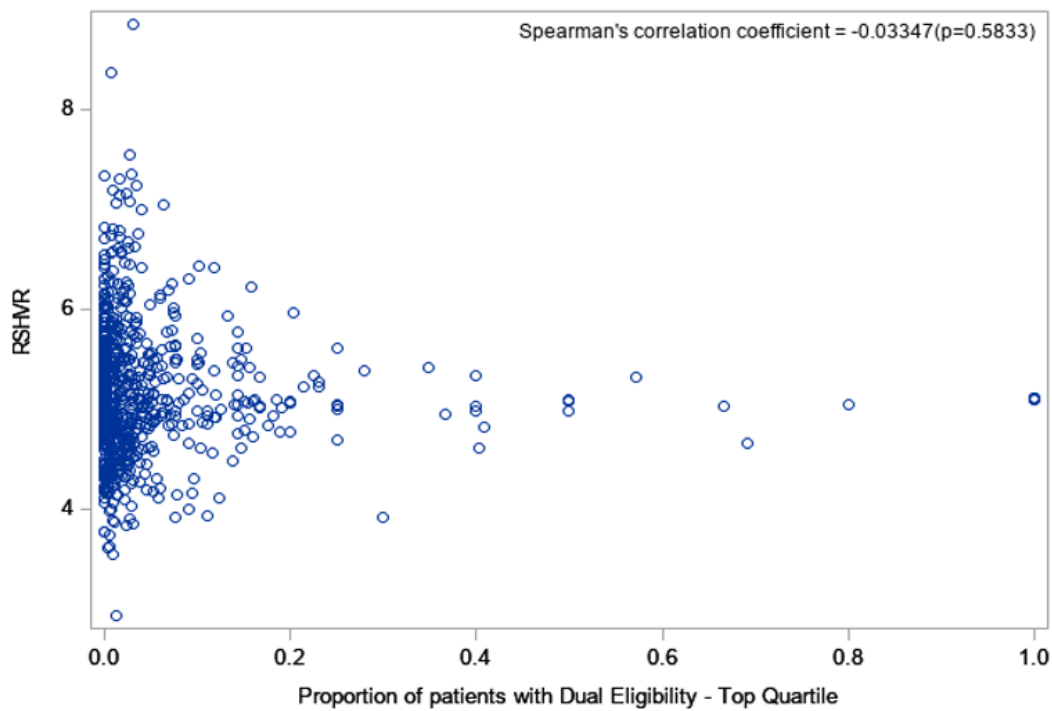


**Figure 6. ASC Urology Surgery: Correlation Between Measure Scores Calculated with and without the High ADI Variable in the Risk Model**





**Figure 7. ASC Urology Surgery: Correlation Between Measure Scores and the Top Quartile of the Facility-Proportion of Patients with DE**



**Figure 8. ASC Urology Surgery: Correlation Between Measure Scores and the Top Quartile of the Facility-Proportion of Patients with High ADI**

