



# **PATIENT SAFETY INDICATORS (PSI) PARAMETER ESTIMATES**

## **Version 4.5 (with corrected PSI #90)**

**Prepared for:**

Agency for Healthcare Research and Quality  
U.S. Department of Health and Human Services  
540 Gaither Road  
Rockville, MD 20850  
<http://www.qualityindicators.ahrq.gov>

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**Prepared by:**

**Battelle**  
505 King Avenue  
Columbus, OH 43201

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## Executive Summary

This document provides statistical parameters associated with version 4.5 of Agency for Healthcare Research and Quality (AHRQ) Quality Indicators™ (QI) Patient Safety Indicators (PSI). The parameter estimates derived for the AHRQ QI are based on analysis of the 2010 Agency for Healthcare Research and Quality's Healthcare Cost and Utilization Project (HCUP) State Inpatient Databases (SID). HCUP is a family of health care databases and related software tools and products developed through a Federal-State-Industry partnership<sup>1</sup>. HCUP includes the largest collection of longitudinal hospital care data in the United States, with all-payer, encounter-level information beginning in 1988. The SID contain all-payer, encounter-level information on inpatient discharges, including clinical and resource information typically found on a billing record, such as patient demographics, up to 30 *International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM)* diagnoses and procedures, length of stay (LOS), expected payer, admission and discharge dates and discharge disposition. In 2010, the HCUP databases represent more than 95 percent of all annual discharges in the U.S.<sup>2</sup>

Two types of parameters are listed here. The majority of the document is devoted to listing covariates and coefficients for risk adjustment logistic regression models. The document also lists weights used to calculate the composite indicator, PSI #90.

The regression coefficients are used by the prediction module to calculate risk-adjusted rates that account for differences in patient populations across providers. Covariates that are considered as potential risk adjusters include gender and age, Major Diagnostic Categories (MDC), Modified Diagnosis-Related Group (MDRG) categories, comorbidities that were apparently present on admission, patient point-of-origin and whether they were transferred from

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<sup>1</sup> The AHRQ QI program would like to acknowledge the HCUP Partner organizations that participated in the HCUP SID: **Alaska** State Hospital and Nursing Home Association, **Arizona** Department of Health Services, **Arkansas** Department of Health, **California** Office of Statewide Health Planning and Development, **Colorado** Hospital Association, **Connecticut** Hospital Association, **Florida** Agency for Health Care Administration, **Georgia** Hospital Association, **Hawaii** Health Information Corporation, **Illinois** Department of Public Health, **Indiana** Hospital Association, **Iowa** Hospital Association, **Kansas** Hospital Association, **Kentucky** Cabinet for Health and Family Services, **Louisiana** Department of Health and Hospitals, **Maine** Health Data Organization, **Maryland** Health Services Cost Review Commission, **Massachusetts** Center for Health Information and Analysis, **Michigan** Health & Hospital Association, **Minnesota** Hospital Association (provides data for Minnesota and North Dakota), **Mississippi** Department of Health, **Missouri** Hospital Industry Data Institute, **Montana** MHA - An Association of Montana Health Care Providers, **Nebraska** Hospital Association, **Nevada** Department of Health and Human Services, **New Hampshire** Department of Health & Human Services, **New Jersey** Department of Health, **New Mexico** Department of Health, **New York** State Department of Health, **North Carolina** Department of Health and Human Services, **North Dakota** (data provided by the Minnesota Hospital Association), **Ohio** Hospital Association, **Oklahoma** State Department of Health, **Oregon** Association of Hospitals and Health Systems, **Oregon** Health Policy and Research, **Pennsylvania** Health Care Cost Containment Council, **Rhode Island** Department of Health, **South Carolina** Budget & Control Board, **South Dakota** Association of Healthcare Organizations, **Tennessee** Hospital Association, **Texas** Department of State Health Services, **Utah** Department of Health, **Vermont** Association of Hospitals and Health Systems, **Virginia** Health Information, **Washington** State Department of Health, **West Virginia** Health Care Authority, **Wisconsin** Department of Health Services, **Wyoming** Hospital Association

<sup>2</sup> The states included in the analysis are Alaska, Arkansas, Arizona, California, Colorado, Connecticut, Florida, Georgia, Hawaii, Iowa, Illinois, Indiana, Kansas, Kentucky, Louisiana, Massachusetts, Maryland, Maine, Michigan, Minnesota, Missouri, Montana, North Carolina, Nebraska, New Jersey, New Mexico, Nevada, New York, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, Vermont, Washington, Wisconsin, West Virginia, and Wyoming.

another facility. Descriptions of some variable categories are provided in the Appendix tables at the end of the document. Every covariate in every model is a binary indicator variable, coded using 0 or 1. The AHRQ QI software user does not need to manipulate or adjust these coefficients; rather this document is intended to make it transparent to the user how the risk adjusted QI rates are calculated.

Certain AHRQ QIs (such as PSI #18 Obstetric Trauma Rate – Vaginal Delivery With Instrument and PSI #19 Obstetric Trauma Rate – Vaginal Delivery Without Instrument) are not risk-adjusted because materially important risk factors (e.g., whether the mother is nulliparous or multiparous or the size of the infant) are not available in the Healthcare Cost and Utilization Project (HCUP) State Inpatient Database (SID).

Additional information on the risk adjustment process and composite indicators maybe found in *Quality Indicator Empirical Methods*, available on the AHRQ QI™ website. (<http://www.qualityindicators.ahrq.gov/modules/Default.aspx>)

**Table 1. Risk Adjustment Coefficients for PSI #2 Death Rate in Low-Mortality Diagnosis Related Groups (DRGs)**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-7.7775	0.1124	4791.79	< 0.0001
SEX	Female	1	-0.5129	0.0524	95.73	< 0.0001
AGE	18 to 24	1	-1.2611	0.1415	79.44	< 0.0001
AGE	25 to 29	1	-1.1063	0.1436	59.36	< 0.0001
AGE	30 to 59	1	-0.5488	0.1137	23.31	< 0.0001
AGE	65 to 69	1	0.6016	0.1421	17.92	< 0.0001
AGE	70 to 74	1	0.9062	0.1384	42.87	< 0.0001
AGE	75 to 79	1	1.2878	0.1298	98.46	< 0.0001
AGE	80 to 84	1	1.7786	0.1254	201.20	< 0.0001
AGE	85+	1	2.3398	0.1206	376.49	< 0.0001
MDRG	413	1	0.6377	0.0941	45.89	< 0.0001
MDRG	533	1	0.4485	0.0777	33.34	< 0.0001
MDRG	1915	1	0.7966	0.0735	117.44	< 0.0001
MDRG	2019	1	-2.1631	2.0670	1.10	0.2953
MDC	19	1	0.6909	0.1440	23.03	< 0.0001
TRANSFER	Transfer-in	1	1.0270	0.0918	125.04	< 0.0001
NOPRDAY	Procedure Days Data Not Available	1	-1.1342	0.0540	441.85	< 0.0001
COMORB	CHF	1	0.9991	0.0850	138.22	< 0.0001
COMORB	NEURO	1	0.3675	0.0763	23.19	< 0.0001
COMORB	CHRN LUNG	1	0.3440	0.0669	26.47	< 0.0001
COMORB	HYPOTHY	1	-0.0770	0.0765	1.01	0.3139
COMORB	REN L FAIL	1	0.5928	0.0753	61.95	< 0.0001
COMORB	OBESE	1	0.4614	0.0762	36.70	< 0.0001
COMORB	ANEM DEF	1	0.2497	0.0724	11.91	0.0006

c-statistic = 0.831

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**Table 2. Risk Adjustment Coefficients for PSI #3 Pressure Ulcer Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-10.0155	0.4036	615.90	< 0.0001
AGE	18 to 24	1	-0.4604	0.1580	8.49	0.0036
AGE	25 to 29	1	-0.5962	0.1786	11.14	0.0008
AGE	30 to 34	1	-0.9309	0.1901	23.99	< 0.0001
AGE	35 to 39	1	-1.0140	0.1905	28.34	< 0.0001
AGE	40 to 44	1	-0.8019	0.1397	32.97	< 0.0001
AGE	45 to 49	1	-0.3335	0.1055	10.00	0.0016
AGE	50 to 54	1	-0.3265	0.0955	11.68	0.0006
AGE	55 to 59	1	-0.0801	0.0893	0.80	0.3696
AGE	65 to 74	1	0.0167	0.0738	0.05	0.8212
AGE	75 to 79	1	0.1952	0.0799	5.97	0.0145
AGE	80 to 84	1	0.1265	0.0801	2.50	0.1139
AGE	85+	1	0.2509	0.0778	10.40	0.0013
MDRG	102	1	3.6489	0.5775	39.93	< 0.0001
MDRG	103	1	1.4581	0.5730	6.48	0.0109
MDRG	111	1	2.8386	0.4573	38.53	< 0.0001
MDRG	114	1	1.7615	0.4977	12.53	0.0004
MDRG	117	1	2.7358	0.5282	26.82	< 0.0001
MDRG	128	1	1.6350	0.6064	7.27	0.007
MDRG	401	1	2.6556	0.4393	36.55	< 0.0001
MDRG	402	1	2.1117	0.4704	20.15	< 0.0001
MDRG	403	1	1.9345	0.5428	12.70	0.0004
MDRG	404	1	2.4848	0.4241	34.33	< 0.0001
MDRG	405	1	1.2855	0.5706	5.08	0.0243
MDRG	407	1	2.3646	0.5453	18.81	< 0.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	408	1	2.1112	0.4998	17.84	< 0.0001
MDRG	409	1	0.7308	0.5049	2.09	0.1478
MDRG	410	1	1.5226	0.4485	11.53	0.0007
MDRG	416	1	2.6972	0.4204	41.15	< 0.0001
MDRG	503	1	2.8669	0.4205	46.48	< 0.0001
MDRG	504	1	1.7066	0.5567	9.40	0.0022
MDRG	507	1	2.1567	0.4420	23.81	< 0.0001
MDRG	508	1	3.1869	0.4356	53.54	< 0.0001
MDRG	509	1	3.8324	0.4266	80.72	< 0.0001
MDRG	510	1	0.7595	0.6303	1.45	0.2282
MDRG	514	1	2.6227	0.4365	36.10	< 0.0001
MDRG	519	1	3.0557	0.4803	40.47	< 0.0001
MDRG	520	1	2.0587	0.4462	21.29	< 0.0001
MDRG	521	1	2.5850	0.6912	13.99	0.0002
MDRG	524	1	1.8221	0.4199	18.83	< 0.0001
MDRG	527	1	1.3664	0.5757	5.63	0.0176
MDRG	531	1	2.0312	0.4659	19.00	< 0.0001
MDRG	535	1	1.8237	0.4878	13.98	0.0002
MDRG	601	1	2.5294	0.4619	29.98	< 0.0001
MDRG	602	1	2.2398	0.4179	28.73	< 0.0001
MDRG	604	1	1.9251	0.5178	13.82	0.0002
MDRG	611	1	1.9812	0.5778	11.76	0.0006
MDRG	613	1	2.4144	0.4639	27.09	< 0.0001
MDRG	614	1	2.2053	0.5016	19.33	< 0.0001
MDRG	615	1	1.7825	0.4514	15.59	0.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	619	1	2.0357	0.4998	16.59	< 0.0001
MDRG	621	1	1.5809	0.5206	9.22	0.0024
MDRG	701	1	3.0940	0.4537	46.51	< 0.0001
MDRG	708	1	2.0507	0.5293	15.01	0.0001
MDRG	709	1	1.5253	0.6028	6.40	0.0114
MDRG	711	1	2.1863	0.4707	21.58	< 0.0001
MDRG	805	1	4.1053	0.4553	81.29	< 0.0001
MDRG	806	1	2.4550	0.5446	20.32	< 0.0001
MDRG	807	1	2.7663	0.4204	43.29	< 0.0001
MDRG	809	1	3.7419	0.4951	57.12	< 0.0001
MDRG	811	1	3.1682	0.4176	57.55	< 0.0001
MDRG	816	1	2.4140	0.4838	24.90	< 0.0001
MDRG	828	1	3.1343	0.5547	31.92	< 0.0001
MDRG	830	1	2.9150	0.5956	23.96	< 0.0001
MDRG	831	1	2.6884	0.5075	28.07	< 0.0001
MDRG	834	1	1.5491	0.6106	6.44	0.0112
MDRG	1006	1	2.9452	0.5044	34.10	< 0.0001
MDRG	1007	1	1.9782	0.5020	15.53	0.0001
MDRG	1008	1	2.5243	0.4503	31.43	< 0.0001
MDRG	1103	1	1.4444	0.6949	4.32	0.0377
MDRG	1104	1	2.0355	0.6018	11.44	0.0007
MDRG	1109	1	2.1449	0.5120	17.55	< 0.0001
MDRG	1110	1	2.4834	0.4141	35.97	< 0.0001
MDRG	1113	1	1.7811	0.4473	15.85	0.0001
MDRG	1118	1	2.1073	0.5044	17.45	< 0.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	1603	1	1.2516	0.7075	3.13	0.0769
MDRG	1604	1	0.8563	0.6048	2.00	0.1568
MDRG	1711	1	3.0517	0.5219	34.19	< 0.0001
MDRG	1713	1	2.4691	0.5048	23.92	< 0.0001
MDRG	1801	1	3.5703	0.4151	73.97	< 0.0001
MDRG	1802	1	2.9848	0.4854	37.81	< 0.0001
MDRG	1803	1	1.4520	0.6474	5.03	0.0249
MDRG	1806	1	2.2090	0.7035	9.86	0.0017
MDRG	1807	1	3.8905	0.4181	86.60	< 0.0001
MDRG	1808	1	2.7658	0.4052	46.59	< 0.0001
MDRG	2104	1	2.2076	0.5215	17.92	< 0.0001
MDRG	2108	1	1.1651	0.8109	2.06	0.1508
MDRG	2302	1	2.9972	0.4258	49.55	< 0.0001
MDRG	2303	1	2.8196	0.4837	33.98	< 0.0001
MDRG	2407	1	4.1420	0.4695	77.84	< 0.0001
MDRG	2408	1	3.9941	0.4676	72.97	< 0.0001
MDRG	2502	1	3.2289	0.4748	46.24	< 0.0001
MDC	1	1	3.3149	0.4083	65.92	< 0.0001
MDC	3	1	2.5439	0.4601	30.57	< 0.0001
MDC	4	1	3.5533	0.4144	73.51	< 0.0001
MDC	5	1	2.7460	0.4026	46.51	< 0.0001
MDC	6	1	2.2024	0.4106	28.78	< 0.0001
MDC	7	1	2.1298	0.4215	25.54	< 0.0001
MDC	8	1	2.7132	0.4137	43.01	< 0.0001
MDC	10	1	2.5689	0.4531	32.14	< 0.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDC	11	1	2.4860	0.4404	31.87	< 0.0001
MDC	13	1	2.1514	0.4768	20.36	< 0.0001
MDC	16	1	3.1774	0.4664	46.42	< 0.0001
MDC	17	1	2.2569	0.4424	26.03	< 0.0001
MDC	18	1	4.5422	0.4186	117.73	< 0.0001
MDC	21	1	2.8243	0.4611	37.52	< 0.0001
MDC	23	1	1.4682	1.0977	1.79	0.181
MDC	24	1	2.4960	0.6881	13.16	0.0003
MDC	25	1	4.8774	0.4715	107.03	< 0.0001
MDC	OTHER	1	1.8264	0.4453	16.82	< 0.0001
NOPOUB04	UB-04 Point-of-Origin Data Not Available	1	0.3255	0.0444	53.63	< 0.0001
NOPRDAY	Procedure Days Data Not Available	1	-1.1657	0.0630	341.93	< 0.0001
COMORB	HTN_C	1	-0.4248	0.0415	104.91	< 0.0001
COMORB	NEURO	1	0.2811	0.0621	20.52	< 0.0001
COMORB	CHRNLUNG	1	-0.0430	0.0453	0.90	0.3416
COMORB	DM	1	0.0545	0.0491	1.23	0.2671
COMORB	DMCX	1	0.2752	0.0689	15.95	0.0001
COMORB	HYPOTHY	1	-0.1464	0.0603	5.90	0.0152
COMORB	RENLFAIL	1	0.4709	0.0497	89.84	< 0.0001
COMORB	AIDS	1	0.6792	0.3031	5.02	0.025
COMORB	TUMOR	1	-0.2157	0.1188	3.30	0.0694
COMORB	WGHTLOSS	1	0.7744	0.0506	234.47	< 0.0001
COMORB	ANEMDEF	1	-0.0003	0.0455	0.00	0.9944
COMORB	DRUG	1	-0.1038	0.1297	0.64	0.4236
COMORB	PSYCH	1	0.0573	0.0859	0.45	0.5044

c-statistic = 0.762

**Table 3. Risk Adjustment Coefficients for PSI #4 Death Rate among Surgical Inpatients with Serious Treatable Complications**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-3.0589	0.0453	4561.81	< 0.0001
AGE	18 to 24	1	-0.8081	0.0798	102.63	< 0.0001
AGE	25 to 29	1	-0.8149	0.0700	135.61	< 0.0001
AGE	30 to 34	1	-0.5855	0.0696	70.72	< 0.0001
AGE	35 to 39	1	-0.5155	0.0576	80.05	< 0.0001
AGE	40 to 44	1	-0.4651	0.0511	82.79	< 0.0001
AGE	45 to 49	1	-0.2861	0.0372	59.24	< 0.0001
AGE	50 to 59	1	-0.1914	0.0293	42.65	< 0.0001
AGE	65 to 69	1	0.0907	0.0297	9.30	0.0023
AGE	70 to 74	1	0.2354	0.0290	66.05	< 0.0001
AGE	75 to 79	1	0.4127	0.0291	200.65	< 0.0001
AGE	80 to 84	1	0.5192	0.0288	326.03	< 0.0001
AGE	85+	1	0.7188	0.0312	532.48	< 0.0001
MDRG	101	1	2.1119	0.0796	703.50	< 0.0001
MDRG	102	1	2.7372	0.0576	2256.07	< 0.0001
MDRG	103	1	1.5931	0.0561	806.93	< 0.0001
MDRG	107	1	0.2949	0.1066	7.66	0.0057
MDRG	401	1	1.6466	0.0725	515.60	< 0.0001
MDRG	402	1	1.2667	0.0778	265.28	< 0.0001
MDRG	502	1	0.5569	0.0648	73.95	< 0.0001
MDRG	503	1	1.0313	0.0586	310.10	< 0.0001
MDRG	505	1	1.1688	0.1214	92.70	< 0.0001
MDRG	507	1	0.3807	0.0651	34.16	< 0.0001
MDRG	508	1	1.6225	0.0459	1250.82	< 0.0001
MDRG	509	1	0.7233	0.0906	63.68	< 0.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	514	1	0.5216	0.0628	69.05	< 0.0001
MDRG	519	1	0.5848	0.1312	19.86	< 0.0001
MDRG	601	1	1.3084	0.0519	635.37	< 0.0001
MDRG	602	1	1.3319	0.0419	1009.27	< 0.0001
MDRG	603	1	1.0443	0.1203	75.37	< 0.0001
MDRG	604	1	0.9184	0.0692	175.98	< 0.0001
MDRG	610	1	0.5789	0.0932	38.57	< 0.0001
MDRG	611	1	1.7719	0.0745	566.26	< 0.0001
MDRG	701	1	1.5515	0.0685	513.19	< 0.0001
MDRG	704	1	0.7308	0.1113	43.11	< 0.0001
MDRG	705	1	0.2646	0.0793	11.14	0.0008
MDRG	805	1	0.6391	0.1167	30.00	< 0.0001
MDRG	811	1	0.4051	0.0549	54.36	< 0.0001
MDRG	901	1	0.7568	0.1023	54.71	< 0.0001
MDRG	1102	1	0.7068	0.1051	45.26	< 0.0001
MDRG	1103	1	0.5997	0.0848	49.97	< 0.0001
MDRG	1104	1	0.1721	0.1023	2.83	0.0926
MDRG	1109	1	0.8491	0.1151	54.40	< 0.0001
MDRG	1401	1	0.1899	0.1190	2.55	0.1106
MDRG	1707	1	1.4136	0.1154	150.00	< 0.0001
MDRG	1708	1	1.1523	0.1075	114.88	< 0.0001
MDRG	1709	1	1.3391	0.1284	108.80	< 0.0001
MDRG	1801	1	1.9891	0.0451	1942.40	< 0.0001
MDRG	1802	1	0.7951	0.0960	68.57	< 0.0001
MDRG	2104	1	0.8394	0.0710	139.86	< 0.0001

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**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	2406	1	2.7997	0.1316	452.88	< 0.0001
MDRG	2407	1	0.6899	0.1435	23.10	< 0.0001
MDRG	2408	1	1.1883	0.1047	128.93	< 0.0001
MDC	1	1	1.1788	0.0564	437.11	< 0.0001
MDC	3	1	0.3593	0.0981	13.43	0.0002
MDC	4	1	1.9466	0.0735	701.54	< 0.0001
MDC	5	1	0.7323	0.0469	244.10	< 0.0001
MDC	6	1	1.0223	0.0532	369.82	< 0.0001
MDC	7	1	1.7534	0.0741	560.59	< 0.0001
MDC	8	1	0.2366	0.0463	26.16	< 0.0001
MDC	9	1	0.6961	0.0904	59.33	< 0.0001
MDC	10	1	0.7080	0.0690	105.28	< 0.0001
MDC	11	1	0.6505	0.0736	78.22	< 0.0001
MDC	12	1	0.2530	0.1035	5.98	0.0145
MDC	13	1	0.1720	0.0727	5.60	0.018
MDC	14	1	0.8033	0.1780	20.37	< 0.0001
MDC	16	1	0.7424	0.1099	45.63	< 0.0001
MDC	17	1	1.7964	0.1382	168.98	< 0.0001
MDC	18	1	1.7508	0.1010	300.40	< 0.0001
MDC	21	1	1.0879	0.0986	121.79	< 0.0001
MDC	Other	1	1.0159	0.1218	69.60	< 0.0001
TRNSFER	Transfer-in	1	0.2369	0.0261	82.21	< 0.0001
COMORB	CHF	1	0.3653	0.0220	274.57	< 0.0001
COMORB	PULMCIRC	1	0.0209	0.0353	0.35	0.5541
COMORB	PERIVASC	1	0.2137	0.0215	99.04	< 0.0001

(CONTINUED)

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
COMORB	HTN_C	1	-0.3630	0.0165	485.94	< 0.0001
COMORB	PARA	1	-0.2066	0.0424	23.74	< 0.0001
COMORB	DMCX	1	-0.0732	0.0348	4.42	0.0356
COMORB	HYPOTHY	1	-0.1781	0.0235	57.27	< 0.0001
COMORB	RENLFAIL	1	0.4203	0.0211	397.44	< 0.0001
COMORB	LIVER	1	0.7961	0.0319	624.07	< 0.0001
COMORB	METS	1	0.3825	0.0283	182.67	< 0.0001
COMORB	WGHTLOSS	1	0.2011	0.0267	56.56	< 0.0001
COMORB	BLDLOSS	1	-0.4871	0.0608	64.14	< 0.0001
COMORB	ANEMDEF	1	-0.2557	0.0207	152.16	< 0.0001
COMORB	DRUG	1	-0.0742	0.0567	1.71	0.191
COMORB	PSYCH	1	-0.3313	0.0488	46.14	< 0.0001
COMORB	DEPRESS	1	-0.4471	0.0311	207.37	< 0.0001

c-statistic = 0.728

**Table 3A. Risk Adjustment Coefficients for PSI #4A Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum A**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-3.5299	0.1059	1111.43	< 0.0001
AGE	18 to 24	1	-0.6928	0.2132	10.56	0.0012
AGE	25 to 29	1	-0.3064	0.1710	3.21	0.0731
AGE	30 to 34	1	-0.4030	0.1927	4.37	0.0365
AGE	35 to 39	1	-0.2058	0.1441	2.04	0.1533
AGE	40 to 44	1	-0.3134	0.1288	5.92	0.0149
AGE	45 to 49	1	-0.1559	0.1078	2.09	0.1481
AGE	50 to 59	1	-0.1701	0.0745	5.22	0.0224
AGE	65 to 69	1	0.0913	0.0732	1.56	0.2123
AGE	70 to 74	1	0.2232	0.0763	8.56	0.0034
AGE	75 to 79	1	0.2865	0.0732	15.33	0.0001
AGE	80 to 84	1	0.4062	0.0831	23.91	< 0.0001
AGE	85+	1	0.6606	0.0877	56.72	< 0.0001
MDRG	101	1	1.3389	0.2156	38.56	< 0.0001
MDRG	102	1	2.3223	0.1494	241.51	< 0.0001
MDRG	103	1	1.1383	0.1436	62.81	< 0.0001
MDRG	107	1	0.8936	0.4099	4.75	0.0292
MDRG	401	1	1.6476	0.1370	144.63	< 0.0001
MDRG	402	1	1.3420	0.1475	82.79	< 0.0001
MDRG	502	1	0.9464	0.2176	18.91	< 0.0001
MDRG	503	1	1.3379	0.1678	63.57	< 0.0001
MDRG	505	1	0.9027	0.3994	5.11	0.0238
MDRG	507	1	0.9364	0.1828	26.23	< 0.0001
MDRG	508	1	1.5181	0.1261	144.88	< 0.0001
MDRG	509	1	1.1991	0.2172	30.48	< 0.0001

(CONTINUED)

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	514	1	0.4090	0.1551	6.96	0.0083
MDRG	519	1	0.9065	0.3239	7.83	0.0051
MDRG	601	1	1.4429	0.1570	84.48	< 0.0001
MDRG	602	1	1.1781	0.1135	107.66	< 0.0001
MDRG	603	1	1.2128	0.3037	15.95	0.0001
MDRG	604	1	0.8836	0.2105	17.62	< 0.0001
MDRG	610	1	0.6845	0.2986	5.26	0.0219
MDRG	611	1	1.2817	0.1930	44.09	< 0.0001
MDRG	701	1	1.1908	0.1943	37.54	< 0.0001
MDRG	704	1	0.0888	0.6451	0.02	0.8904
MDRG	705	1	0.4163	0.2641	2.48	0.1149
MDRG	805	1	0.4266	0.3144	1.84	0.1748
MDRG	811	1	0.7922	0.1246	40.43	< 0.0001
MDRG	901	1	0.3543	0.2795	1.61	0.2049
MDRG	1102	1	0.6149	0.2491	6.09	0.0136
MDRG	1103	1	0.8345	0.2086	16.00	0.0001
MDRG	1104	1	-0.0124	0.3098	0.00	0.968
MDRG	1109	1	0.5260	0.3555	2.19	0.139
MDRG	1401	1	-0.6800	0.5806	1.37	0.2415
MDRG	1707	1	1.6462	0.2802	34.53	< 0.0001
MDRG	1708	1	1.0685	0.2657	16.17	0.0001
MDRG	1709	1	1.0414	0.3384	9.47	0.0021
MDRG	1801	1	1.9882	0.1207	271.41	< 0.0001
MDRG	1802	1	0.4201	0.2471	2.89	0.089
MDRG	2104	1	0.6407	0.2166	8.75	0.0031

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**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	2406	1	2.1976	0.3629	36.67	< 0.0001
MDRG	2407	1	1.0672	0.2949	13.09	0.0003
MDRG	2408	1	0.7987	0.2317	11.88	0.0006
MDC	1	1	1.2223	0.1396	76.67	< 0.0001
MDC	3	1	0.7401	0.2770	7.14	0.0075
MDC	4	1	2.0277	0.1659	149.31	< 0.0001
MDC	5	1	1.2107	0.1245	94.51	< 0.0001
MDC	6	1	1.1576	0.1533	57.00	< 0.0001
MDC	7	1	1.7885	0.1766	102.57	< 0.0001
MDC	8	1	0.3347	0.1173	8.14	0.0043
MDC	9	1	0.6616	0.2250	8.65	0.0033
MDC	10	1	1.1090	0.1898	34.14	< 0.0001
MDC	11	1	0.6151	0.2236	7.57	0.0059
MDC	12	1	1.0221	0.2353	18.87	< 0.0001
MDC	13	1	0.4385	0.1655	7.02	0.0081
MDC	14	1	-6.3648	0.6597	93.09	< 0.0001
MDC	16	1	1.0043	0.2888	12.09	0.0005
MDC	17	1	0.9676	0.3483	7.72	0.0055
MDC	18	1	2.0529	0.2805	53.58	< 0.0001
MDC	21	1	0.9528	0.2813	11.48	0.0007
MDC	Other	1	0.8539	0.2772	9.49	0.0021
TRNSFER	Transfer-in	1	0.1643	0.0640	6.59	0.0103
COMORB	CHF	1	0.5746	0.0621	85.58	< 0.0001
COMORB	PULMCIRC	1	0.1480	0.0637	5.40	0.0202
COMORB	PERIVASC	1	0.1353	0.0702	3.72	0.0537

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**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
COMORB	HTN_C	1	-0.2997	0.0435	47.42	< 0.0001
COMORB	PARA	1	-0.1936	0.1019	3.61	0.0574
COMORB	DMCX	1	-0.0267	0.1105	0.06	0.8092
COMORB	HYPOTHY	1	-0.1381	0.0666	4.30	0.038
COMORB	RENLFAIL	1	0.5537	0.0579	91.52	< 0.0001
COMORB	LIVER	1	0.6030	0.1163	26.91	< 0.0001
COMORB	METS	1	0.4237	0.0639	43.90	< 0.0001
COMORB	WGHTLOSS	1	0.4182	0.0690	36.71	< 0.0001
COMORB	BLDLOSS	1	-0.2954	0.1754	2.84	0.0921
COMORB	ANEMDEF	1	-0.2980	0.0588	25.65	< 0.0001
COMORB	DRUG	1	-0.5420	0.2137	6.43	0.0112
COMORB	PSYCH	1	-0.1921	0.1355	2.01	0.1561
COMORB	DEPRESS	1	-0.3386	0.0868	15.23	0.0001

c-statistic = 0.722

**Table 3B. Risk Adjustment Coefficients for PSI #4B Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum B**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-3.0751	0.0644	2280.47	< 0.0001
AGE	18 to 24	1	-0.9360	0.1089	73.83	< 0.0001
AGE	25 to 29	1	-0.9044	0.1125	64.62	< 0.0001
AGE	30 to 34	1	-0.8349	0.1216	47.11	< 0.0001
AGE	35 to 39	1	-0.5618	0.0911	37.99	< 0.0001
AGE	40 to 44	1	-0.5078	0.0777	42.70	< 0.0001
AGE	45 to 49	1	-0.3254	0.0590	30.40	< 0.0001
AGE	50 to 59	1	-0.2463	0.0471	27.34	< 0.0001
AGE	65 to 69	1	0.1246	0.0469	7.04	0.008
AGE	70 to 74	1	0.3053	0.0430	50.31	< 0.0001
AGE	75 to 79	1	0.5046	0.0448	126.99	< 0.0001
AGE	80 to 84	1	0.6808	0.0432	247.83	< 0.0001
AGE	85+	1	0.8181	0.0451	328.77	< 0.0001
MDRG	101	1	2.1194	0.0971	476.49	< 0.0001
MDRG	102	1	2.6024	0.0748	1210.68	< 0.0001
MDRG	103	1	1.7205	0.0729	556.78	< 0.0001
MDRG	107	1	0.2447	0.1627	2.26	0.1326
MDRG	502	1	0.8406	0.0887	89.76	< 0.0001
MDRG	503	1	0.8379	0.0774	117.24	< 0.0001
MDRG	505	1	1.0542	0.1447	53.07	< 0.0001
MDRG	507	1	0.3346	0.0844	15.72	0.0001
MDRG	508	1	1.7173	0.0625	754.62	< 0.0001
MDRG	509	1	0.9981	0.1348	54.82	< 0.0001
MDRG	514	1	0.9818	0.0922	113.39	< 0.0001
MDRG	519	1	0.6549	0.2143	9.34	0.0022

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**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	601	1	0.8151	0.0762	114.49	< 0.0001
MDRG	602	1	0.8740	0.0621	197.91	< 0.0001
MDRG	603	1	0.3789	0.1814	4.36	0.0367
MDRG	604	1	0.3638	0.1011	12.94	0.0003
MDRG	610	1	-0.0659	0.1424	0.21	0.6436
MDRG	611	1	1.3041	0.1215	115.12	< 0.0001
MDRG	701	1	0.9193	0.1072	73.60	< 0.0001
MDRG	704	1	0.0725	0.1803	0.16	0.6878
MDRG	705	1	-0.3866	0.1180	10.74	0.001
MDRG	805	1	0.7081	0.1912	13.71	0.0002
MDRG	811	1	0.3443	0.0709	23.57	< 0.0001
MDRG	901	1	0.7264	0.1631	19.84	< 0.0001
MDRG	1102	1	0.4605	0.1781	6.69	0.0097
MDRG	1103	1	-0.0025	0.1489	0.00	0.9869
MDRG	1104	1	0.0970	0.1824	0.28	0.5949
MDRG	1109	1	0.5696	0.2379	5.73	0.0167
MDRG	1401	1	-1.1935	0.3035	15.47	0.0001
MDRG	1707	1	1.3202	0.1882	49.23	< 0.0001
MDRG	1708	1	0.8799	0.1799	23.93	< 0.0001
MDRG	1709	1	1.4379	0.2062	48.64	< 0.0001
MDRG	1801	1	1.6186	0.0614	694.55	< 0.0001
MDRG	1802	1	0.6280	0.1449	18.78	< 0.0001
MDRG	2104	1	0.6408	0.1186	29.21	< 0.0001
MDRG	2406	1	2.9086	0.1549	352.75	< 0.0001
MDRG	2407	1	0.7605	0.1738	19.14	< 0.0001

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**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	2408	1	1.0398	0.1539	45.65	< 0.0001
MDC	1	1	1.1259	0.0749	225.91	< 0.0001
MDC	3	1	-0.0493	0.1493	0.11	0.7414
MDC	5	1	0.8536	0.0617	191.59	< 0.0001
MDC	6	1	0.7216	0.0766	88.80	< 0.0001
MDC	7	1	1.1608	0.1217	91.05	< 0.0001
MDC	8	1	0.0456	0.0728	0.39	0.5308
MDC	9	1	0.5278	0.1453	13.19	0.0003
MDC	10	1	0.5170	0.1197	18.64	< 0.0001
MDC	11	1	0.3939	0.1280	9.47	0.0021
MDC	12	1	-0.1600	0.2196	0.53	0.4664
MDC	13	1	-0.1028	0.1166	0.78	0.3783
MDC	14	1	1.1437	0.2644	18.72	< 0.0001
MDC	16	1	0.5601	0.1905	8.64	0.0033
MDC	17	1	1.9126	0.2114	81.88	< 0.0001
MDC	18	1	1.6573	0.1325	156.44	< 0.0001
MDC	21	1	0.9472	0.1681	31.74	< 0.0001
MDC	Other	1	0.5854	0.2105	7.73	0.0054
TRANSFER	Transfer-in	1	0.2161	0.0330	42.95	< 0.0001
COMORB	CHF	1	0.3288	0.0334	96.71	< 0.0001
COMORB	PULMCIRC	1	0.2235	0.0595	14.11	0.0002
COMORB	PERIVASC	1	0.1089	0.0343	10.10	0.0015
COMORB	HTN_C	1	-0.4590	0.0230	398.59	< 0.0001
COMORB	PARA	1	-0.1406	0.0558	6.35	0.0117
COMORB	DMCX	1	-0.0932	0.0537	3.01	0.0827

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**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
COMORB	HYPOTHY	1	-0.1997	0.0356	31.46	< 0.0001
COMORB	RENLFAIL	1	0.2145	0.0323	44.16	< 0.0001
COMORB	LIVER	1	0.8800	0.0503	306.51	< 0.0001
COMORB	METS	1	0.4868	0.0433	126.11	< 0.0001
COMORB	WGHTLOSS	1	0.3286	0.0402	66.74	< 0.0001
COMORB	BLDLOSS	1	-0.3786	0.1075	12.39	0.0004
COMORB	ANEMDEF	1	-0.2066	0.0301	47.02	< 0.0001
COMORB	DRUG	1	0.0003	0.0800	0.00	0.9969
COMORB	PSYCH	1	-0.2985	0.0681	19.23	< 0.0001
COMORB	DEPRESS	1	-0.4605	0.0426	116.77	< 0.0001

c-statistic = 0.737

**Table 3C. Risk Adjustment Coefficients for PSI #4C Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum C**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-1.7326	0.0855	410.90	< 0.0001
AGE	18 to 24	1	-0.8566	0.1469	34.02	< 0.0001
AGE	25 to 29	1	-0.8322	0.1588	27.47	< 0.0001
AGE	30 to 34	1	-0.8505	0.1408	36.50	< 0.0001
AGE	35 to 39	1	-0.6800	0.1189	32.73	< 0.0001
AGE	40 to 44	1	-0.7127	0.1050	46.06	< 0.0001
AGE	45 to 49	1	-0.4338	0.0750	33.42	< 0.0001
AGE	50 to 59	1	-0.2167	0.0536	16.34	0.0001
AGE	65 to 69	1	0.1328	0.0563	5.56	0.0184
AGE	70 to 74	1	0.3588	0.0532	45.51	< 0.0001
AGE	75 to 79	1	0.5246	0.0542	93.86	< 0.0001
AGE	80 to 84	1	0.6278	0.0541	134.87	< 0.0001
AGE	85+	1	0.9052	0.0606	222.80	< 0.0001
MDRG	101	1	1.3663	0.1705	64.18	< 0.0001
MDRG	102	1	1.6187	0.1337	146.56	< 0.0001
MDRG	103	1	1.0737	0.1244	74.45	< 0.0001
MDRG	107	1	0.0715	0.3013	0.06	0.8125
MDRG	401	1	1.2669	0.1117	128.69	< 0.0001
MDRG	402	1	0.8859	0.1324	44.76	< 0.0001
MDRG	502	1	0.5640	0.1595	12.51	0.0004
MDRG	503	1	1.1154	0.1039	115.27	< 0.0001
MDRG	505	1	1.3409	0.1910	49.31	< 0.0001
MDRG	507	1	0.5156	0.1099	22.03	< 0.0001
MDRG	508	1	1.1968	0.0890	180.90	< 0.0001
MDRG	509	1	-0.0324	0.1378	0.06	0.8142

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**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	514	1	0.5181	0.1287	16.21	0.0001
MDRG	519	1	0.5285	0.2466	4.59	0.0321
MDRG	601	1	0.3676	0.0894	16.90	< 0.0001
MDRG	602	1	0.2720	0.0827	10.82	0.001
MDRG	603	1	0.0386	0.2101	0.03	0.8544
MDRG	604	1	0.1010	0.1228	0.68	0.4111
MDRG	610	1	0.1435	0.1828	0.62	0.4324
MDRG	611	1	0.6741	0.1560	18.68	< 0.0001
MDRG	701	1	0.7658	0.1142	45.00	< 0.0001
MDRG	704	1	-0.2015	0.3017	0.45	0.5044
MDRG	705	1	-0.5921	0.2563	5.34	0.0209
MDRG	805	1	-0.6330	0.3302	3.67	0.0552
MDRG	811	1	0.0685	0.1064	0.42	0.5194
MDRG	901	1	-0.1001	0.1995	0.25	0.6157
MDRG	1102	1	-0.2605	0.1645	2.51	0.1134
MDRG	1103	1	0.2330	0.1682	1.92	0.166
MDRG	1104	1	-0.9785	0.1920	25.98	< 0.0001
MDRG	1109	1	0.0730	0.3530	0.04	0.8362
MDRG	1401	1	-0.5009	0.2926	2.93	0.0869
MDRG	1707	1	0.9738	0.2474	15.49	0.0001
MDRG	1708	1	1.0912	0.2512	18.87	< 0.0001
MDRG	1709	1	0.8650	0.2346	13.59	0.0002
MDRG	1801	1	0.1555	0.2201	0.50	0.4799
MDRG	1802	1	-1.1344	0.7025	2.61	0.1064
MDRG	2104	1	-0.1299	0.1266	1.05	0.3049

(CONTINUED)



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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	2406	1	2.5055	0.2939	72.70	< 0.0001
MDRG	2407	1	-0.0051	0.3323	0.00	0.9878
MDRG	2408	1	1.0340	0.1652	39.19	< 0.0001
MDC	1	1	0.4532	0.1149	15.57	0.0001
MDC	3	1	0.0289	0.2020	0.02	0.8863
MDC	4	1	0.8706	0.1031	71.38	< 0.0001
MDC	5	1	0.6788	0.0866	61.41	< 0.0001
MDC	6	1	0.3228	0.0937	11.88	0.0006
MDC	7	1	0.9154	0.1366	44.89	< 0.0001
MDC	8	1	-0.0274	0.0997	0.08	0.7835
MDC	9	1	0.1567	0.1849	0.72	0.3969
MDC	10	1	-0.1964	0.1416	1.92	0.1656
MDC	11	1	-0.4826	0.1452	11.04	0.0009
MDC	12	1	-0.4744	0.1942	5.96	0.0146
MDC	13	1	0.1613	0.1260	1.64	0.2003
MDC	14	1	-0.0792	0.3667	0.05	0.8291
MDC	16	1	0.4218	0.2063	4.18	0.0409
MDC	17	1	1.0582	0.2561	17.07	< 0.0001
MDC	18	1	1.2622	0.5504	5.26	0.0218
MDC	21	1	0.4265	0.1852	5.31	0.0213
MDC	Other	1	0.6633	0.1968	11.36	0.0008
TRNSFER	Transfer-in	1	0.1241	0.0447	7.70	0.0055
COMORB	CHF	1	0.2158	0.0439	24.12	< 0.0001
COMORB	PULMCIRC	1	0.3123	0.0782	15.95	0.0001
COMORB	PERIVASC	1	0.1908	0.0431	19.61	< 0.0001

(CONTINUED)

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
COMORB	HTN_C	1	-0.2846	0.0294	93.50	< 0.0001
COMORB	PARA	1	-0.1596	0.0750	4.53	0.0333
COMORB	DMCX	1	-0.3960	0.0712	30.96	< 0.0001
COMORB	HYPOTHY	1	-0.1095	0.0470	5.43	0.0198
COMORB	RENLFAIL	1	0.1649	0.0400	16.99	< 0.0001
COMORB	LIVER	1	1.0601	0.0636	277.39	< 0.0001
COMORB	METS	1	0.4159	0.0472	77.54	< 0.0001
COMORB	WGHTLOSS	1	-0.0119	0.0497	0.06	0.8112
COMORB	BLDLOSS	1	-0.1920	0.1213	2.51	0.1135
COMORB	ANEMDEF	1	-0.2057	0.0390	27.83	< 0.0001
COMORB	DRUG	1	-0.2754	0.1265	4.74	0.0294
COMORB	PSYCH	1	-0.5059	0.0940	28.95	< 0.0001
COMORB	DEPRESS	1	-0.3861	0.0619	38.95	< 0.0001

c-statistic = 0.701

**Table 3D. Risk Adjustment Coefficients for PSI #4D Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum D**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-1.2229	0.0791	238.75	< 0.0001
AGE	18 to 24	1	-0.3353	0.1408	5.67	0.0172
AGE	25 to 29	1	-0.4956	0.1321	14.07	0.0002
AGE	30 to 34	1	-0.2440	0.1043	5.47	0.0193
AGE	35 to 39	1	-0.1373	0.0963	2.03	0.1539
AGE	40 to 44	1	-0.1670	0.0854	3.83	0.0505
AGE	45 to 49	1	-0.1485	0.0766	3.75	0.0527
AGE	50 to 59	1	-0.1461	0.0533	7.52	0.0061
AGE	65 to 69	1	0.0944	0.0559	2.85	0.0913
AGE	70 to 74	1	0.1717	0.0565	9.23	0.0024
AGE	75 to 79	1	0.4273	0.0565	57.14	< 0.0001
AGE	80 to 84	1	0.4319	0.0614	49.48	< 0.0001
AGE	85+	1	0.6053	0.0664	83.10	< 0.0001
MDRG	101	1	1.5869	0.1611	97.06	< 0.0001
MDRG	102	1	2.6927	0.1518	314.82	< 0.0001
MDRG	103	1	1.0667	0.1207	78.12	< 0.0001
MDRG	107	1	-0.2167	0.1505	2.07	0.1498
MDRG	601	1	0.8225	0.0941	76.43	< 0.0001
MDRG	602	1	0.7195	0.0739	94.77	< 0.0001
MDRG	603	1	0.5866	0.1804	10.57	0.0011
MDRG	604	1	0.7484	0.1209	38.32	< 0.0001
MDRG	610	1	0.3698	0.1481	6.24	0.0125
MDRG	611	1	1.1349	0.1282	78.38	< 0.0001
MDRG	701	1	0.7079	0.1145	38.20	< 0.0001
MDRG	704	1	0.4317	0.1666	6.71	0.0096

(CONTINUED)

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	705	1	0.1179	0.1232	0.92	0.3387
MDRG	805	1	0.0167	0.1731	0.01	0.9231
MDRG	811	1	0.2921	0.2340	1.56	0.212
MDRG	901	1	1.0077	0.2121	22.58	< 0.0001
MDRG	1102	1	0.1132	0.1648	0.47	0.492
MDRG	1103	1	0.1355	0.1250	1.17	0.2786
MDRG	1104	1	0.1125	0.1662	0.46	0.4987
MDRG	1109	1	0.2141	0.1590	1.81	0.178
MDRG	1401	1	-0.5773	0.1408	16.81	< 0.0001
MDRG	1707	1	0.7014	0.2144	10.70	0.0011
MDRG	1708	1	1.2558	0.2458	26.10	< 0.0001
MDRG	1709	1	0.5543	0.2103	6.95	0.0084
MDRG	1801	1	1.3468	0.0798	284.65	< 0.0001
MDRG	1802	1	0.5910	0.1658	12.70	0.0004
MDRG	2104	1	0.2805	0.1108	6.41	0.0113
MDRG	2408	1	2.4689	0.8149	9.18	0.0024
MDC	1	1	0.6737	0.1012	44.33	< 0.0001
MDC	3	1	0.2385	0.1628	2.15	0.1429
MDC	6	1	0.2092	0.0940	4.95	0.0261
MDC	7	1	0.5737	0.1245	21.25	< 0.0001
MDC	8	1	-0.0033	0.0788	0.00	0.9666
MDC	9	1	0.4831	0.1422	11.53	0.0007
MDC	10	1	0.4110	0.1043	15.53	0.0001
MDC	11	1	0.1062	0.1121	0.90	0.3432
MDC	12	1	-0.2394	0.1507	2.53	0.112

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDC	13	1	-0.2737	0.1033	7.02	0.0081
MDC	14	1	-0.8475	0.2033	17.38	< 0.0001
MDC	16	1	-0.0965	0.1874	0.27	0.6063
MDC	17	1	0.9040	0.2801	10.42	0.0012
MDC	18	1	0.0955	0.1696	0.32	0.5733
MDC	21	1	0.1165	0.1626	0.51	0.4739
MDC	Other	1	0.9251	0.2199	17.70	< 0.0001
TRANSFER	Transfer-in	1	0.2845	0.0705	16.27	0.0001
COMORB	CHF	1	-0.0420	0.0435	0.93	0.3344
COMORB	PULMCIRC	1	0.1778	0.0766	5.39	0.0203
COMORB	PERIVASC	1	0.3495	0.0479	53.25	< 0.0001
COMORB	HTN_C	1	0.0385	0.0303	1.61	0.204
COMORB	PARA	1	-0.1035	0.0865	1.43	0.2314
COMORB	DMCX	1	-0.0315	0.0613	0.26	0.6077
COMORB	HYPOTHY	1	-0.1252	0.0463	7.31	0.0069
COMORB	RENLFAIL	1	0.1622	0.0404	16.13	0.0001
COMORB	LIVER	1	0.5322	0.0627	71.96	< 0.0001
COMORB	METS	1	0.2557	0.0593	18.62	< 0.0001
COMORB	WGHTLOSS	1	-0.2151	0.0508	17.95	< 0.0001
COMORB	BLDLOSS	1	-0.3512	0.1147	9.38	0.0022
COMORB	ANEMDEF	1	-0.0199	0.0459	0.19	0.6647
COMORB	DRUG	1	0.1903	0.1106	2.96	0.0853
COMORB	PSYCH	1	-0.2165	0.0906	5.70	0.0169
COMORB	DEPRESS	1	-0.2883	0.0545	28.00	< 0.0001

c-statistic = 0.697

Table 3E. Risk Adjustment Coefficients for PSI #4E Death Rate among Surgical Inpatients with Serious Treatable Complications - Stratum E

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-4.2590	0.1647	668.32	< 0.0001
AGE	18 to 24	1	-0.5594	0.2926	3.66	0.0559
AGE	25 to 29	1	-1.0800	0.3294	10.75	0.001
AGE	30 to 34	1	-0.3583	0.1961	3.34	0.0678
AGE	35 to 39	1	-0.5061	0.1831	7.64	0.0057
AGE	40 to 44	1	-0.3608	0.1455	6.14	0.0132
AGE	45 to 49	1	-0.2448	0.1218	4.04	0.0445
AGE	50 to 59	1	-0.2386	0.0817	8.54	0.0035
AGE	65 to 69	1	-0.0370	0.0816	0.21	0.65
AGE	70 to 74	1	0.1337	0.0807	2.74	0.0976
AGE	75 to 79	1	0.1853	0.0817	5.14	0.0233
AGE	80 to 84	1	0.2294	0.0865	7.04	0.008
AGE	85+	1	0.4501	0.1052	18.30	< 0.0001
MDRG	101	1	3.0188	0.3229	87.42	< 0.0001
MDRG	102	1	3.7710	0.2273	275.35	< 0.0001
MDRG	103	1	2.0017	0.2269	77.83	< 0.0001
MDRG	107	1	0.2854	0.3854	0.55	0.459
MDRG	401	1	1.9433	0.2030	91.62	< 0.0001
MDRG	402	1	2.4245	0.2003	146.52	< 0.0001
MDRG	502	1	1.6944	0.1789	89.73	< 0.0001
MDRG	503	1	2.2227	0.1804	151.82	< 0.0001
MDRG	505	1	2.7152	0.3010	81.35	< 0.0001
MDRG	507	1	1.6023	0.1935	68.57	< 0.0001
MDRG	508	1	3.0289	0.1584	365.47	< 0.0001
MDRG	509	1	1.7611	0.2523	48.73	< 0.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	514	1	1.7079	0.1798	90.19	< 0.0001
MDRG	519	1	1.8850	0.2518	56.03	< 0.0001
MDRG	805	1	1.3845	0.3141	19.43	< 0.0001
MDRG	811	1	1.3908	0.3944	12.43	0.0004
MDRG	901	1	1.3239	0.3496	14.34	0.0002
MDRG	1102	1	1.6515	0.3466	22.70	< 0.0001
MDRG	1103	1	1.6470	0.2806	34.46	< 0.0001
MDRG	1104	1	1.1520	0.3195	13.00	0.0003
MDRG	1109	1	1.0828	0.3430	9.96	0.0016
MDRG	1401	1	0.8385	0.5342	2.46	0.1165
MDRG	1707	1	1.8911	0.3364	31.59	< 0.0001
MDRG	1708	1	2.5844	0.2579	100.41	< 0.0001
MDRG	1709	1	1.9240	0.4965	15.02	0.0001
MDRG	1801	1	3.2566	0.1614	407.36	< 0.0001
MDRG	1802	1	0.9942	0.3296	9.10	0.0026
MDRG	2104	1	1.4338	0.2455	34.10	< 0.0001
MDC	1	1	2.0643	0.2068	99.62	< 0.0001
MDC	3	1	1.0257	0.3497	8.60	0.0034
MDC	4	1	3.0302	0.1960	239.00	< 0.0001
MDC	5	1	1.7828	0.1579	127.42	< 0.0001
MDC	8	1	0.4749	0.1874	6.42	0.0113
MDC	9	1	0.8593	0.2956	8.45	0.0037
MDC	10	1	0.8897	0.2287	15.13	0.0001
MDC	11	1	1.0214	0.2376	18.48	< 0.0001
MDC	12	1	0.5488	0.3255	2.84	0.0918

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDC	13	1	0.2978	0.2889	1.06	0.3028
MDC	14	1	1.5762	0.7521	4.39	0.0361
MDC	16	1	1.3710	0.3226	18.07	< 0.0001
MDC	17	1	3.6303	0.3138	133.79	< 0.0001
MDC	18	1	3.3727	0.2418	194.54	< 0.0001
MDC	21	1	1.7303	0.3525	24.10	< 0.0001
MDC	Other	1	1.5212	0.3582	18.04	< 0.0001
TRANSFER	Transfer-in	1	0.4122	0.0620	44.14	< 0.0001
COMORB	CHF	1	0.5046	0.0776	42.30	< 0.0001
COMORB	PULMCIRC	1	0.4528	0.1233	13.48	0.0002
COMORB	PERIVASC	1	0.1190	0.0579	4.23	0.0398
COMORB	HTN_C	1	-0.5481	0.0449	149.19	< 0.0001
COMORB	PARA	1	-0.1081	0.1365	0.63	0.4283
COMORB	DMCX	1	-0.2606	0.0957	7.41	0.0065
COMORB	HYPOTHY	1	-0.4347	0.0830	27.40	< 0.0001
COMORB	RENLFAIL	1	0.5316	0.0588	81.72	< 0.0001
COMORB	LIVER	1	0.7092	0.0798	78.90	< 0.0001
COMORB	METS	1	0.5711	0.1033	30.59	< 0.0001
COMORB	WGHTLOSS	1	0.4015	0.0754	28.34	< 0.0001
COMORB	BLDLOSS	1	-0.4353	0.1195	13.27	0.0003
COMORB	ANEMDEF	1	-0.3883	0.0607	40.99	< 0.0001
COMORB	DRUG	1	-0.1947	0.1716	1.29	0.2564
COMORB	PSYCH	1	-0.3225	0.1605	4.04	0.0446
COMORB	DEPRESS	1	-0.6485	0.0967	44.95	< 0.0001

c-statistic = 0.817



**Table 4. Risk Adjustment Coefficients for PSI #6 Iatrogenic Pneumothorax Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-8.1642	0.0579	19870.61	< 0.0001
SEX	Female	1	0.4026	0.0450	80.02	< 0.0001
AGE	65 to 85+	1	0.3676	0.0483	57.97	< 0.0001
MDRG	416	1	1.9136	0.0986	376.43	< 0.0001
MDRG	504	1	3.1061	0.0965	1036.27	< 0.0001
MDRG	510	1	3.4296	0.0686	2496.01	< 0.0001
MDRG	601	1	1.7038	0.2136	63.62	< 0.0001
MDRG	602	1	1.0208	0.1099	86.31	< 0.0001
MDRG	1103	1	2.5014	0.1558	257.61	< 0.0001
MDRG	1801	1	1.6292	0.1476	121.76	< 0.0001
MDRG	1807	1	2.3356	0.1388	283.01	< 0.0001
MDC	1	1	0.3681	0.0989	13.85	0.0002
MDC	6	1	-0.1007	0.0911	1.22	0.2695
MDC	8	1	-0.4857	0.0919	27.91	< 0.0001
MDC	25	1	1.3449	0.2904	21.45	< 0.0001
NOPRDAY	Procedure Days Data Not Available	1	-1.9520	0.0965	409.54	< 0.0001
COMORB	HTN_C	1	-0.2084	0.0469	19.76	< 0.0001
COMORB	NEURO	1	0.0863	0.0757	1.30	0.2547
COMORB	CHRN LUNG	1	0.2617	0.0520	25.30	< 0.0001
COMORB	DM	1	-0.3972	0.0606	42.97	< 0.0001
COMORB	DMCX	1	-0.5711	0.1251	20.86	< 0.0001
COMORB	METS	1	0.5147	0.1098	21.98	< 0.0001
COMORB	OBESE	1	-0.5145	0.0944	29.69	< 0.0001
COMORB	WGHTLOSS	1	1.0673	0.0663	259.15	< 0.0001
COMORB	DRUG	1	0.2932	0.1269	5.34	0.0209

c-statistic = 0.834

**Table 5. Risk Adjustment Coefficients for PSI #7 Central Venous Catheter-Related Blood Stream Infection Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-10.3536	0.1658	3901.14	< 0.0001
MDRG	101	1	4.6158	0.3437	180.37	< 0.0001
MDRG	102	1	3.2629	0.4416	54.59	< 0.0001
MDRG	103	1	2.9297	0.3204	83.62	< 0.0001
MDRG	114	1	2.9183	0.2527	133.32	< 0.0001
MDRG	118	1	2.6359	0.5366	24.13	< 0.0001
MDRG	128	1	2.0787	0.4647	20.01	< 0.0001
MDRG	401	1	3.7660	0.2891	169.72	< 0.0001
MDRG	402	1	3.6053	0.2960	148.31	< 0.0001
MDRG	404	1	2.7279	0.2800	94.90	< 0.0001
MDRG	408	1	3.5415	0.2597	185.92	< 0.0001
MDRG	409	1	2.1617	0.3176	46.34	< 0.0001
MDRG	410	1	1.7648	0.3549	24.73	< 0.0001
MDRG	416	1	4.1668	0.1884	488.91	< 0.0001
MDRG	502	1	1.7704	0.4909	13.01	0.0003
MDRG	503	1	3.7078	0.2435	231.83	< 0.0001
MDRG	504	1	2.8064	0.3759	55.72	< 0.0001
MDRG	507	1	2.7565	0.2796	97.20	< 0.0001
MDRG	508	1	3.6155	0.2569	198.02	< 0.0001
MDRG	509	1	3.1807	0.4204	57.23	< 0.0001
MDRG	511	1	1.3083	0.3975	10.83	0.001
MDRG	514	1	2.1120	0.3905	29.26	< 0.0001
MDRG	520	1	2.4149	0.3299	53.59	< 0.0001
MDRG	522	1	1.3174	0.3926	11.26	0.0008
MDRG	524	1	2.5727	0.2378	117.05	< 0.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	531	1	1.7823	0.4268	17.44	< 0.0001
MDRG	601	1	4.2468	0.2364	322.65	< 0.0001
MDRG	602	1	4.1719	0.1946	459.38	< 0.0001
MDRG	604	1	4.0740	0.2425	282.29	< 0.0001
MDRG	611	1	3.9407	0.3255	146.56	< 0.0001
MDRG	613	1	3.7052	0.2739	183.00	< 0.0001
MDRG	615	1	2.1966	0.2505	76.91	< 0.0001
MDRG	619	1	3.1193	0.3332	87.64	< 0.0001
MDRG	620	1	2.1267	0.2697	62.17	< 0.0001
MDRG	621	1	3.2854	0.2524	169.42	< 0.0001
MDRG	701	1	4.8385	0.2843	289.72	< 0.0001
MDRG	705	1	0.6822	0.5648	1.46	0.2271
MDRG	708	1	1.9750	0.5111	14.93	0.0001
MDRG	710	1	3.5400	0.2426	212.87	< 0.0001
MDRG	711	1	2.6715	0.3898	46.98	< 0.0001
MDRG	805	1	3.2800	0.3719	77.78	< 0.0001
MDRG	807	1	-0.7228	0.5800	1.55	0.2127
MDRG	832	1	3.2129	0.5377	35.70	< 0.0001
MDRG	901	1	2.0963	0.5374	15.22	0.0001
MDRG	910	1	1.6267	0.3795	18.37	< 0.0001
MDRG	1007	1	3.3308	0.2669	155.75	< 0.0001
MDRG	1008	1	2.8810	0.3219	80.12	< 0.0001
MDRG	1109	1	2.7184	0.7292	13.90	0.0002
MDRG	1110	1	3.3043	0.2328	201.44	< 0.0001
MDRG	1113	1	1.4558	0.4375	11.07	0.0009

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	1604	1	3.6180	0.2267	254.61	< 0.0001
MDRG	1801	1	4.5271	0.1981	522.46	< 0.0001
MDRG	1802	1	3.7736	0.2858	174.30	< 0.0001
MDRG	1807	1	4.5483	0.2144	450.16	< 0.0001
MDRG	1808	1	3.2426	0.2008	260.77	< 0.0001
MDRG	2019	1	-4.7018	14.1486	0.11	0.7397
MDRG	2104	1	3.6597	0.3011	147.70	< 0.0001
MDRG	2107	1	2.9295	0.3035	93.17	< 0.0001
MDRG	2302	1	2.1979	0.2393	84.35	< 0.0001
MDRG	2408	1	4.1561	0.3277	160.84	< 0.0001
MDC	1	1	3.5010	0.1888	343.71	< 0.0001
MDC	4	1	3.7857	0.2006	356.05	< 0.0001
MDC	5	1	3.0687	0.2016	231.69	< 0.0001
MDC	6	1	3.1932	0.2099	231.34	< 0.0001
MDC	7	1	3.5733	0.2336	234.08	< 0.0001
MDC	8	1	2.0424	0.1966	107.94	< 0.0001
MDC	9	1	2.9284	0.2707	117.07	< 0.0001
MDC	10	1	2.8272	0.2678	111.49	< 0.0001
MDC	11	1	2.2830	0.2956	59.65	< 0.0001
MDC	13	1	0.0452	0.5998	0.01	0.9399
MDC	16	1	3.5644	0.3214	123.03	< 0.0001
MDC	18	1	4.2826	0.2166	391.06	< 0.0001
MDC	21	1	3.8007	0.2494	232.17	< 0.0001
MDC	22	1	4.6262	0.3008	236.58	< 0.0001
MDC	23	1	2.6792	0.3793	49.90	< 0.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDC	24	1	3.5324	0.4095	74.40	< 0.0001
TRNSFER	Transfer-in	1	1.0180	0.0614	274.91	< 0.0001
NOPOUB04	UB-04 Point-of-Origin Data Not Available	1	0.2123	0.0509	17.39	< 0.0001
NOPRDAY	Procedure Days Data Not Available	1	-2.6445	0.1074	605.85	< 0.0001
COMORB	CHF	1	0.2513	0.0647	15.10	0.0001
COMORB	VALVE	1	0.0209	0.1053	0.04	0.8426
COMORB	HTN_C	1	-0.2503	0.0450	30.98	< 0.0001
COMORB	PARA	1	0.8249	0.0856	92.96	< 0.0001
COMORB	NEURO	1	0.3494	0.0673	26.98	< 0.0001
COMORB	CHRN LUNG	1	-0.0194	0.0545	0.13	0.722
COMORB	REN L FAIL	1	0.2735	0.0671	16.59	< 0.0001
COMORB	LIVER	1	0.2349	0.1059	4.91	0.0266
COMORB	ARTH	1	0.1396	0.1265	1.22	0.2697
COMORB	OBESE	1	0.3852	0.0608	40.20	< 0.0001
COMORB	WGHTLOSS	1	1.0101	0.0640	248.97	< 0.0001
COMORB	BLDLOSS	1	0.7039	0.1272	30.63	< 0.0001
COMORB	ANEMDEF	1	0.3382	0.0528	41.11	< 0.0001
COMORB	DRUG	1	0.7018	0.0900	60.76	< 0.0001

c-statistic = 0.895

**Table 6. Risk Adjustment Coefficients for PSI #8 Postoperative Hip Fracture Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-10.6038	0.1407	5678.86	< 0.0001
MDC	5	1	0.2216	0.1694	1.71	0.1908

c-statistic = 0.559

**Table 7. Risk Adjustment Coefficients for PSI #9 Perioperative Hemorrhage or Hematoma Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-7.3013	0.0426	29429.64	< 0.0001
SEX	Female	1	-0.0871	0.0107	65.67	< 0.0001
MDRG	107	1	2.8291	0.0526	2894.69	< 0.0001
MDRG	302	1	2.9237	0.0843	1201.76	< 0.0001
MDRG	401	1	2.9683	0.0503	3487.35	< 0.0001
MDRG	503	1	3.9983	0.0463	7472.58	< 0.0001
MDRG	504	1	1.5281	0.0749	416.45	< 0.0001
MDRG	507	1	3.1782	0.0457	4835.57	< 0.0001
MDRG	508	1	3.3606	0.0477	4955.62	< 0.0001
MDRG	509	1	2.1294	0.0833	652.85	< 0.0001
MDRG	514	1	2.7640	0.0491	3169.22	< 0.0001
MDRG	519	1	1.7930	0.0944	361.12	< 0.0001
MDRG	601	1	2.6676	0.0568	2206.87	< 0.0001
MDRG	602	1	2.5399	0.0460	3054.68	< 0.0001
MDRG	603	1	2.7156	0.0782	1206.88	< 0.0001
MDRG	604	1	2.0831	0.0660	996.25	< 0.0001
MDRG	606	1	1.1966	0.0743	259.34	< 0.0001
MDRG	609	1	2.1997	0.0938	550.38	< 0.0001
MDRG	610	1	2.0408	0.0688	879.04	< 0.0001
MDRG	701	1	3.0527	0.0630	2345.33	< 0.0001
MDRG	704	1	2.8448	0.0685	1725.96	< 0.0001
MDRG	705	1	1.5671	0.0532	866.68	< 0.0001
MDRG	803	1	1.5590	0.0598	680.10	< 0.0001
MDRG	805	1	2.5542	0.0708	1302.59	< 0.0001
MDRG	808	1	1.5131	0.0645	550.91	< 0.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	902	1	2.8926	0.0907	1017.36	< 0.0001
MDRG	903	1	2.9844	0.0546	2988.69	< 0.0001
MDRG	904	1	3.0029	0.0657	2087.38	< 0.0001
MDRG	1003	1	2.3310	0.0566	1693.16	< 0.0001
MDRG	1005	1	2.8231	0.0578	2386.26	< 0.0001
MDRG	1101	1	3.5396	0.0731	2346.08	< 0.0001
MDRG	1103	1	2.8550	0.0606	2218.98	< 0.0001
MDRG	1105	1	3.2208	0.0933	1191.06	< 0.0001
MDRG	1109	1	2.1691	0.0808	720.19	< 0.0001
MDRG	1204	1	2.3748	0.0710	1117.28	< 0.0001
MDRG	1303	1	2.3622	0.0789	896.81	< 0.0001
MDRG	1304	1	2.4653	0.0470	2750.79	< 0.0001
MDRG	1707	1	3.0707	0.0863	1265.13	< 0.0001
MDRG	1801	1	2.3355	0.0569	1684.13	< 0.0001
MDRG	1802	1	2.1276	0.0858	614.87	< 0.0001
MDRG	2104	1	2.4593	0.0700	1232.76	< 0.0001
MDRG	2408	1	2.4002	0.1026	547.26	< 0.0001
MDRG	7702	1	4.7415	0.0754	3954.78	< 0.0001
MDC	1	1	1.9074	0.0528	1303.63	< 0.0001
MDC	3	1	2.8996	0.0615	2223.77	< 0.0001
MDC	4	1	2.5360	0.0566	2005.01	< 0.0001
MDC	5	1	1.9928	0.0450	1958.45	< 0.0001
MDC	6	1	2.0835	0.0551	1431.74	< 0.0001
MDC	7	1	3.1077	0.0686	2053.92	< 0.0001
MDC	8	1	1.0325	0.0476	470.17	< 0.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDC	9	1	2.0493	0.0700	856.43	< 0.0001
MDC	10	1	2.0837	0.0631	1089.26	< 0.0001
MDC	11	1	2.0327	0.0570	1273.00	< 0.0001
MDC	12	1	1.8839	0.0673	782.72	< 0.0001
MDC	13	1	2.2130	0.0631	1230.18	< 0.0001
MDC	16	1	2.8382	0.0842	1137.19	< 0.0001
MDC	17	1	2.6578	0.0763	1213.51	< 0.0001
MDC	18	1	3.3562	0.1116	905.23	< 0.0001
MDC	21	1	2.2196	0.0939	558.39	< 0.0001
MDC	24	1	1.6074	0.1741	85.24	< 0.0001
MDC	Other	1	1.8088	0.0949	363.17	< 0.0001
TRANSFER	Transfer-in	1	0.1955	0.0208	88.04	< 0.0001
NOPOUB04	UB-04 Point-of-Origin Data Not Available	1	-0.0078	0.0119	0.43	0.5107
COMORB	CHF	1	0.3623	0.0225	258.24	< 0.0001
COMORB	VALVE	1	0.4243	0.0270	246.28	< 0.0001
COMORB	PERIVASC	1	0.2526	0.0171	218.15	< 0.0001
COMORB	HTN_C	1	-0.1005	0.0116	75.06	< 0.0001
COMORB	DM	1	-0.1275	0.0135	89.34	< 0.0001
COMORB	RENFAIL	1	0.2629	0.0170	240.23	< 0.0001
COMORB	LIVER	1	0.3368	0.0305	121.74	< 0.0001
COMORB	TUMOR	1	-0.0150	0.0351	0.18	0.6688
COMORB	ANEMDEF	1	-0.1481	0.0174	72.10	< 0.0001
COMORB	DRUG	1	-0.0371	0.0424	0.76	0.3819

c-statistic = 0.720

**Table 8. Risk Adjustment Coefficients for PSI #10 Postoperative Physiologic and Metabolic Derangement Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-6.5352	0.1097	3546.57	< 0.0001
SEX	Female	1	-0.5853	0.0510	131.73	< 0.0001
AGE	18 to 59	1	-0.6248	0.0809	59.69	< 0.0001
AGE	65 to 79	1	0.1552	0.0749	4.29	0.0383
AGE	80 to 85+	1	0.2053	0.0906	5.13	0.0235
MDRG	503	1	1.4454	0.1135	162.06	< 0.0001
MDRG	508	1	1.0029	0.1286	60.86	< 0.0001
MDC	4	1	0.4611	0.1299	12.60	0.0004
MDC	7	1	0.7782	0.1157	45.27	< 0.0001
MDC	8	1	-1.7782	0.1150	239.02	< 0.0001
MDC	Other	1	-0.3932	0.0949	17.18	< 0.0001
COMORB	VALVE	1	0.3320	0.1226	7.33	0.0068
COMORB	OBESE	1	0.5440	0.0668	66.24	< 0.0001
COMORB	RENLFAIL	1	-0.1536	0.1001	2.36	0.1247
COMORB	PERIVASC	1	0.4826	0.0726	44.13	< 0.0001
COMORB	CHF	1	1.2783	0.0911	197.09	< 0.0001
COMORB	LIVER	1	1.3624	0.0962	200.60	< 0.0001
COMORB	DMCX	1	0.5320	0.1120	22.58	< 0.0001
COMORB	HTN_C	1	-0.9940	0.0503	390.49	< 0.0001

c-statistic = 0.781

**Table 9. Risk Adjustment Coefficients for PSI #11 Postoperative Respiratory Failure Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-6.0324	0.0297	41266.76	< 0.0001
SEX	Female	1	-0.1875	0.0133	199.21	< 0.0001
AGE	18 to 24	1	-0.8249	0.0652	159.92	< 0.0001
AGE	25 to 29	1	-0.9721	0.0677	206.34	< 0.0001
AGE	30 to 34	1	-0.9006	0.0566	253.53	< 0.0001
AGE	35 to 39	1	-0.9138	0.0484	356.64	< 0.0001
AGE	40 to 44	1	-0.6854	0.0388	311.65	< 0.0001
AGE	45 to 49	1	-0.5033	0.0322	243.58	< 0.0001
AGE	50 to 54	1	-0.3116	0.0283	120.91	< 0.0001
AGE	55 to 59	1	-0.1742	0.0255	46.53	< 0.0001
AGE	65 to 69	1	0.1250	0.0225	30.78	< 0.0001
AGE	70 to 74	1	0.2071	0.0234	78.09	< 0.0001
AGE	75 to 79	1	0.3612	0.0251	206.27	< 0.0001
AGE	80 to 84	1	0.3936	0.0276	202.81	< 0.0001
AGE	85+	1	0.4580	0.0323	200.48	< 0.0001
MDRG	101	1	4.2381	0.1283	1090.32	< 0.0001
MDRG	102	1	3.3148	0.0944	1234.15	< 0.0001
MDRG	103	1	2.0615	0.0382	2908.50	< 0.0001
MDRG	107	1	0.8005	0.0472	287.86	< 0.0001
MDRG	601	1	2.1123	0.0379	3101.24	< 0.0001
MDRG	602	1	1.9732	0.0270	5322.89	< 0.0001
MDRG	603	1	1.5636	0.0630	615.71	< 0.0001
MDRG	604	1	1.9156	0.0504	1446.66	< 0.0001
MDRG	607	1	0.9764	0.0899	117.99	< 0.0001
MDRG	610	1	1.4039	0.0486	833.47	< 0.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	611	1	1.5614	0.0809	372.17	< 0.0001
MDRG	701	1	2.4156	0.0402	3617.54	< 0.0001
MDRG	704	1	1.7310	0.0712	591.08	< 0.0001
MDRG	705	1	1.1400	0.0552	426.66	< 0.0001
MDRG	801	1	2.1213	0.0536	1568.96	< 0.0001
MDRG	802	1	2.2531	0.0619	1322.81	< 0.0001
MDRG	803	1	0.6790	0.0414	269.41	< 0.0001
MDRG	805	1	1.1186	0.0742	227.30	< 0.0001
MDRG	806	1	0.4388	0.0623	49.64	< 0.0001
MDRG	808	1	0.6496	0.0495	171.94	< 0.0001
MDRG	811	1	0.8644	0.0777	123.73	< 0.0001
MDRG	815	1	-0.1438	0.0581	6.11	0.0134
MDRG	826	1	0.8343	0.0970	74.01	< 0.0001
MDRG	901	1	0.4803	0.0879	29.86	< 0.0001
MDRG	1001	1	1.7757	0.0904	385.62	< 0.0001
MDRG	1003	1	1.0855	0.0545	396.00	< 0.0001
MDRG	1102	1	2.1477	0.0553	1507.18	< 0.0001
MDRG	1103	1	1.6873	0.0421	1602.48	< 0.0001
MDRG	1104	1	1.2024	0.0635	358.42	< 0.0001
MDRG	1201	1	-0.1130	0.0866	1.70	0.1919
MDRG	1302	1	1.8352	0.0739	616.27	< 0.0001
MDRG	1303	1	1.0856	0.0676	257.68	< 0.0001
MDRG	1304	1	-0.0463	0.0514	0.81	0.3669
MDRG	1707	1	1.8494	0.0809	523.02	< 0.0001
MDRG	1709	1	2.3856	0.0817	851.88	< 0.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	1801	1	2.9948	0.0540	3077.64	< 0.0001
MDRG	1802	1	1.2862	0.0769	279.72	< 0.0001
MDRG	2104	1	1.8397	0.0529	1210.65	< 0.0001
MDRG	7702	1	3.4401	0.0906	1442.69	< 0.0001
MDC	1	1	1.9045	0.0404	2222.16	< 0.0001
MDC	3	1	1.6734	0.0850	387.63	< 0.0001
MDC	6	1	2.4266	0.0385	3979.85	< 0.0001
MDC	7	1	2.6070	0.0532	2397.73	< 0.0001
MDC	8	1	0.7407	0.0345	461.82	< 0.0001
MDC	10	1	1.0458	0.0458	520.89	< 0.0001
MDC	11	1	1.2046	0.0443	738.63	< 0.0001
MDC	12	1	-0.1120	0.0837	1.79	0.1811
MDC	13	1	0.7076	0.0608	135.67	< 0.0001
MDC	16	1	1.8894	0.0899	441.88	< 0.0001
MDC	17	1	2.2255	0.0773	828.11	< 0.0001
MDC	21	1	1.3252	0.0874	229.74	< 0.0001
MDC	Other	1	0.6288	0.0467	181.62	< 0.0001
TRANSFER	Transfer-in	1	0.7522	0.0382	388.43	< 0.0001
NOPOUB04	UB-04 Point-of-Origin Data Not Available	1	-0.1999	0.0167	142.71	< 0.0001
NOPRDAY	Procedure Days Data Not Available	1	0.3205	0.0200	255.98	< 0.0001
COMORB	CHF	1	1.0473	0.0207	2563.79	< 0.0001
COMORB	VALVE	1	0.0809	0.0297	7.42	0.0065
COMORB	PULMCIRC	1	1.0979	0.0330	1105.10	< 0.0001
COMORB	HTN_C	1	-0.2322	0.0133	306.79	< 0.0001
COMORB	PARA	1	1.1104	0.0363	936.60	< 0.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
COMORB	NEURO	1	0.4450	0.0291	234.25	< 0.0001
COMORB	CHRN LUNG	1	0.5777	0.0146	1570.95	< 0.0001
COMORB	DM	1	0.0410	0.0155	6.98	0.0082
COMORB	HYPOTHY	1	-0.1033	0.0208	24.70	< 0.0001
COMORB	REN L FAIL	1	0.6970	0.0202	1196.54	< 0.0001
COMORB	LIVER	1	0.4093	0.0352	135.13	< 0.0001
COMORB	METS	1	0.3975	0.0258	238.09	< 0.0001
COMORB	OBESE	1	0.5855	0.0166	1238.30	< 0.0001
COMORB	WGHT LOSS	1	1.6386	0.0227	5209.63	< 0.0001
COMORB	ANEM DEF	1	0.1237	0.0203	37.04	< 0.0001
COMORB	ALCOHOL	1	0.8053	0.0368	477.81	< 0.0001
COMORB	DRUG	1	0.4153	0.0555	56.04	< 0.0001

c-statistic = 0.836

**Table 10. Risk Adjustment Coefficients for PSI #12 Perioperative Pulmonary Embolism or Deep Vein Thrombosis Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-5.7835	0.0243	56734.10	< 0.0001
AGE	18 to 24	1	-0.8830	0.0523	284.64	< 0.0001
AGE	25 to 29	1	-0.6611	0.0519	162.44	< 0.0001
AGE	30 to 34	1	-0.6572	0.0486	182.62	< 0.0001
AGE	35 to 39	1	-0.5913	0.0451	172.16	< 0.0001
AGE	40 to 44	1	-0.3753	0.0361	108.02	< 0.0001
AGE	45 to 49	1	-0.3715	0.0309	144.70	< 0.0001
AGE	50 to 59	1	-0.1949	0.0221	77.67	< 0.0001
AGE	65 to 74	1	0.1201	0.0206	33.92	< 0.0001
AGE	75 to 79	1	0.2068	0.0244	71.58	< 0.0001
AGE	80 to 84	1	0.2024	0.0257	61.88	< 0.0001
AGE	85+	1	0.1235	0.0270	20.89	< 0.0001
MDRG	101	1	2.4648	0.0611	1626.01	< 0.0001
MDRG	102	1	1.8561	0.0526	1245.83	< 0.0001
MDRG	103	1	1.0673	0.0384	773.78	< 0.0001
MDRG	104	1	0.9364	0.0714	171.82	< 0.0001
MDRG	105	1	0.8027	0.1069	56.40	< 0.0001
MDRG	107	1	-1.5705	0.1383	129.00	< 0.0001
MDRG	108	1	0.4395	0.0939	21.90	< 0.0001
MDRG	401	1	0.5108	0.0463	121.78	< 0.0001
MDRG	402	1	0.3903	0.0574	46.27	< 0.0001
MDRG	502	1	-0.6647	0.0811	67.15	< 0.0001
MDRG	503	1	0.7669	0.0421	332.04	< 0.0001
MDRG	505	1	0.9436	0.1144	68.02	< 0.0001
MDRG	507	1	0.4690	0.0389	145.18	< 0.0001

(CONTINUED)

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	508	1	0.7757	0.0443	306.49	< 0.0001
MDRG	509	1	0.2513	0.0882	8.13	0.0044
MDRG	511	1	-1.1990	0.0635	356.22	< 0.0001
MDRG	514	1	0.0627	0.0493	1.62	0.2029
MDRG	519	1	-0.1408	0.1038	1.84	0.175
MDRG	601	1	0.9397	0.0406	536.99	< 0.0001
MDRG	602	1	0.8420	0.0266	1003.37	< 0.0001
MDRG	603	1	0.0973	0.1096	0.79	0.3746
MDRG	604	1	0.6699	0.0531	158.98	< 0.0001
MDRG	611	1	0.7365	0.0662	123.75	< 0.0001
MDRG	701	1	0.9199	0.0613	225.20	< 0.0001
MDRG	705	1	-0.7351	0.0573	164.60	< 0.0001
MDRG	801	1	1.0231	0.0787	168.82	< 0.0001
MDRG	802	1	1.5456	0.0748	426.72	< 0.0001
MDRG	804	1	0.7964	0.0721	122.09	< 0.0001
MDRG	805	1	0.8470	0.0632	179.51	< 0.0001
MDRG	806	1	0.6260	0.0528	140.81	< 0.0001
MDRG	807	1	0.3102	0.0235	174.69	< 0.0001
MDRG	808	1	-0.6444	0.0777	68.82	< 0.0001
MDRG	811	1	0.7723	0.0317	592.01	< 0.0001
MDRG	815	1	-0.4769	0.0641	55.41	< 0.0001
MDRG	1001	1	0.4602	0.1440	10.21	0.0014
MDRG	1003	1	-0.9276	0.1237	56.28	< 0.0001
MDRG	1006	1	0.2154	0.1210	3.17	0.0749
MDRG	1101	1	-0.1010	0.1668	0.37	0.5451

(CONTINUED)



**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	1102	1	1.5168	0.0688	485.54	< 0.0001
MDRG	1103	1	0.8567	0.0609	197.56	< 0.0001
MDRG	1104	1	0.2290	0.0765	8.97	0.0027
MDRG	1107	1	-0.4147	0.0926	20.07	< 0.0001
MDRG	1109	1	0.0104	0.0888	0.01	0.907
MDRG	1201	1	-0.6911	0.1074	41.38	< 0.0001
MDRG	1301	1	0.7141	0.1222	34.14	< 0.0001
MDRG	1302	1	1.4531	0.0780	347.32	< 0.0001
MDRG	1303	1	0.5914	0.0811	53.17	< 0.0001
MDRG	1304	1	-0.9183	0.0583	247.80	< 0.0001
MDRG	1707	1	0.8850	0.1032	73.62	< 0.0001
MDRG	1708	1	1.0336	0.0928	123.93	< 0.0001
MDRG	1709	1	1.1203	0.1246	80.83	< 0.0001
MDRG	1801	1	1.0284	0.0382	725.75	< 0.0001
MDRG	1802	1	0.8088	0.0591	187.36	< 0.0001
MDRG	2104	1	0.4909	0.0609	64.96	< 0.0001
MDRG	2406	1	2.5808	0.1268	414.17	< 0.0001
MDRG	2407	1	2.2409	0.0675	1103.37	< 0.0001
MDRG	2408	1	2.3316	0.0507	2117.28	< 0.0001
MDRG	2501	1	1.6082	0.1885	72.81	< 0.0001
MDRG	7701	1	1.6722	0.1257	176.87	< 0.0001
MDRG	7702	1	1.1309	0.1329	72.43	< 0.0001
MDC	1	1	2.1084	0.0348	3660.44	< 0.0001
MDC	4	1	1.1903	0.0497	573.43	< 0.0001
MDC	5	1	0.2094	0.0367	32.55	< 0.0001

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**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDC		1	0.6023	0.0541	123.95	< 0.0001
MDC		1	0.4377	0.0771	32.20	< 0.0001
MDC		1	-0.6270	0.1042	36.18	< 0.0001
MDC		1	0.8758	0.0869	101.47	< 0.0001
MDC		1	1.4832	0.1252	140.32	< 0.0001
MDC		1	2.0583	0.0728	800.31	< 0.0001
MDC		1	0.6555	0.0813	65.02	< 0.0001
MDC		1	1.5282	0.1125	184.48	< 0.0001
MDC		1	1.1943	0.9744	1.50	0.2204
MDC		1	2.9328	0.4263	47.33	< 0.0001
TRNSFER	Transfer-in	1	0.6591	0.0203	1055.00	< 0.0001
COMORB	CHF	1	0.0820	0.0239	11.79	0.0006
COMORB	VALVE	1	-0.2923	0.0319	83.93	< 0.0001
COMORB	PULMCIRC	1	1.8528	0.0315	3453.38	< 0.0001
COMORB	PERIVASC	1	-0.0781	0.0239	10.70	0.0011
COMORB	HTN_C	1	-0.2140	0.0127	282.15	< 0.0001
COMORB	PARA	1	0.5448	0.0297	335.58	< 0.0001
COMORB	NEURO	1	0.1307	0.0252	26.94	< 0.0001
COMORB	CHRN LUNG	1	-0.0683	0.0154	19.76	< 0.0001
COMORB	DM	1	-0.1417	0.0161	77.24	< 0.0001
COMORB	HYPOTHY	1	-0.1510	0.0197	58.74	< 0.0001
COMORB	REN L FAIL	1	0.1161	0.0189	37.79	< 0.0001
COMORB	AIDS	1	0.2835	0.1419	3.99	0.0456
COMORB	LYMPH	1	0.3207	0.0582	30.35	< 0.0001
COMORB	METS	1	0.6895	0.0236	856.05	< 0.0001

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**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
COMORB	TUMOR	1	0.3499	0.0348	101.28	< 0.0001
COMORB	OBESE	1	0.2928	0.0172	289.95	< 0.0001
COMORB	WGHTLOSS	1	0.6823	0.0222	947.74	< 0.0001
COMORB	BLDLOSS	1	0.3321	0.0494	45.25	< 0.0001
COMORB	ANEMDEF	1	0.1072	0.0170	39.68	< 0.0001
COMORB	ALCOHOL	1	0.1468	0.0322	20.72	< 0.0001
COMORB	DRUG	1	0.0717	0.0473	2.30	0.1292
COMORB	PSYCH	1	0.1574	0.0350	20.20	< 0.0001
COMORB	DEPRESS	1	-0.1149	0.0218	27.67	< 0.0001

c-statistic = 0.729

**Table 11. Risk Adjustment Coefficients for PSI #13 Postoperative Sepsis Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-5.2080	0.0565	8501.63	< 0.0001
SEX	Female	1	-0.1022	0.0238	18.44	< 0.0001
AGE	18 to 39	1	-0.7809	0.0588	176.64	< 0.0001
AGE	40 to 59	1	-0.2889	0.0372	60.36	< 0.0001
AGE	65 to 69	1	0.0700	0.0426	2.69	0.1007
AGE	70 to 74	1	0.2881	0.0420	46.99	< 0.0001
AGE	75 to 79	1	0.3263	0.0443	54.16	< 0.0001
AGE	80 to 84	1	0.3904	0.0469	69.40	< 0.0001
AGE	85+	1	0.3228	0.0542	35.50	< 0.0001
MDRG	503	1	1.5240	0.0724	443.48	< 0.0001
MDRG	505	1	1.5993	0.1112	207.03	< 0.0001
MDRG	508	1	1.9082	0.0630	918.68	< 0.0001
MDRG	601	1	1.6781	0.0777	466.50	< 0.0001
MDRG	602	1	1.6545	0.0564	860.66	< 0.0001
MDRG	806	1	0.6765	0.0966	49.04	< 0.0001
MDRG	1003	1	2.1267	0.0970	480.90	< 0.0001
MDRG	1104	1	1.6004	0.0978	267.59	< 0.0001
MDC	4	1	0.9937	0.0971	104.82	< 0.0001
MDC	5	1	1.3159	0.0553	566.36	< 0.0001
MDC	7	1	1.3573	0.0866	245.82	< 0.0001
MDC	8	1	0.5550	0.0539	106.12	< 0.0001
MDC	10	1	0.8994	0.1047	73.84	< 0.0001
MDC	Other	1	1.1213	0.0519	466.80	< 0.0001
TRNSFER	Transfer-in	1	0.2453	0.0703	12.18	0.0005
COMORB	CHF	1	0.8729	0.0443	388.71	< 0.0001

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**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
COMORB	VALVE	1	0.2521	0.0565	19.95	< 0.0001
COMORB	PULMCIRC	1	0.7125	0.0746	91.27	< 0.0001
COMORB	HTN_C	1	-0.7437	0.0343	469.75	< 0.0001
COMORB	PARA	1	0.2864	0.0782	13.41	0.0003
COMORB	CHRN LUNG	1	0.0045	0.0301	0.02	0.8823
COMORB	HYPOTHY	1	-0.2607	0.0398	42.91	< 0.0001
COMORB	REN L FAIL	1	0.3896	0.0382	104.20	< 0.0001
COMORB	LIVER	1	0.5646	0.0676	69.69	< 0.0001
COMORB	OBESE	1	0.2174	0.0359	36.64	< 0.0001
COMORB	WGHTLOSS	1	1.3695	0.0578	560.61	< 0.0001
COMORB	ALCOHOL	1	0.4995	0.0698	51.18	< 0.0001
COMORB	DEPRESS	1	-0.3643	0.0465	61.29	< 0.0001

c-statistic = 0.704

**Table 12. Risk Adjustment Coefficients for PSI #14 Postoperative Wound Dehiscence Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-5.5710	0.0800	4844.82	< 0.0001
SEX	Female	1	-0.9180	0.0518	313.66	< 0.0001
AGE	18 to 59	1	-0.3220	0.0786	16.77	< 0.0001
AGE	65 to 85+	1	0.1225	0.0725	2.86	0.0911
MDRG	1102	1	0.5038	0.1340	14.14	0.0002
MDC	6	1	-0.5302	0.0620	73.15	< 0.0001
MDC	11	1	-0.9990	0.1425	49.17	< 0.0001
MDC	13	1	-0.9837	0.1078	83.33	< 0.0001
MDC	18	1	0.5235	0.0953	30.17	< 0.0001
MDC	Other	1	-0.4478	0.0560	63.99	< 0.0001
COMORB	CHF	1	0.4631	0.0821	31.85	< 0.0001
COMORB	HTN_C	1	-0.2758	0.0500	30.46	< 0.0001
COMORB	CHRN LUNG	1	0.6054	0.0499	146.91	< 0.0001
COMORB	OBESE	1	0.4736	0.0622	57.90	< 0.0001
COMORB	WGHTLOSS	1	0.9290	0.0717	167.84	< 0.0001
COMORB	ALCOHOL	1	0.6189	0.0942	43.17	< 0.0001

c-statistic = 0.730

**Table 13. Risk Adjustment Coefficients for PSI #15 Accidental Puncture or Laceration Rate**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
INTERCEPT		1	-8.4898	0.0868	9566.80	< 0.0001
SEX	Female	1	0.1824	0.0190	91.84	< 0.0001
AGE	18 to 24	1	-0.4935	0.0677	53.20	< 0.0001
AGE	25 to 29	1	-0.5104	0.0627	66.24	< 0.0001
AGE	30 to 59	1	-0.1172	0.0181	41.74	< 0.0001
MDRG	101	1	3.5226	0.2754	163.61	< 0.0001
MDRG	103	1	2.9799	0.1337	496.55	< 0.0001
MDRG	107	1	2.3473	0.1661	199.64	< 0.0001
MDRG	302	1	2.9184	0.2527	133.35	< 0.0001
MDRG	401	1	3.8166	0.1074	1262.61	< 0.0001
MDRG	402	1	2.5413	0.1626	244.22	< 0.0001
MDRG	416	1	1.1187	0.1888	35.11	< 0.0001
MDRG	502	1	3.0430	0.1263	580.44	< 0.0001
MDRG	503	1	4.2092	0.1007	1746.81	< 0.0001
MDRG	504	1	2.8609	0.1418	406.83	< 0.0001
MDRG	505	1	4.8908	0.1406	1209.62	< 0.0001
MDRG	506	1	5.2044	0.1638	1008.94	< 0.0001
MDRG	507	1	3.0999	0.1160	713.68	< 0.0001
MDRG	508	1	4.1995	0.0982	1827.02	< 0.0001
MDRG	510	1	2.2361	0.1465	233.13	< 0.0001
MDRG	511	1	3.0931	0.0981	993.72	< 0.0001
MDRG	513	1	3.2734	0.1257	678.23	< 0.0001
MDRG	514	1	3.4598	0.1045	1096.93	< 0.0001
MDRG	519	1	2.6415	0.2413	119.83	< 0.0001
MDRG	520	1	0.7943	0.2233	12.65	0.0004

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**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	522	1	1.0271	0.1683	37.23	< 0.0001
MDRG	601	1	4.8723	0.0967	2537.17	< 0.0001
MDRG	602	1	5.3993	0.0877	3792.15	< 0.0001
MDRG	603	1	4.4779	0.1261	1260.24	< 0.0001
MDRG	604	1	3.9380	0.1093	1298.71	< 0.0001
MDRG	606	1	2.0563	0.1703	145.79	< 0.0001
MDRG	609	1	3.1925	0.2030	247.30	< 0.0001
MDRG	610	1	2.6595	0.1644	261.85	< 0.0001
MDRG	611	1	3.5212	0.1465	577.94	< 0.0001
MDRG	621	1	1.4653	0.1910	58.85	< 0.0001
MDRG	701	1	4.8760	0.1072	2067.36	< 0.0001
MDRG	702	1	5.9616	0.1238	2320.11	< 0.0001
MDRG	703	1	4.7275	0.2078	517.66	< 0.0001
MDRG	704	1	5.1176	0.1006	2586.12	< 0.0001
MDRG	705	1	3.2054	0.1036	956.80	< 0.0001
MDRG	712	1	2.2436	0.1786	157.80	< 0.0001
MDRG	806	1	1.7440	0.2368	54.22	< 0.0001
MDRG	807	1	0.9892	0.1197	68.30	< 0.0001
MDRG	815	1	4.3920	0.1040	1783.16	< 0.0001
MDRG	816	1	0.8503	0.2367	12.91	0.0003
MDRG	1001	1	4.2983	0.1745	606.40	< 0.0001
MDRG	1003	1	3.4183	0.1160	868.99	< 0.0001
MDRG	1005	1	2.4774	0.1796	190.23	< 0.0001
MDRG	1006	1	3.0986	0.2487	155.25	< 0.0001
MDRG	1101	1	3.7737	0.2176	300.81	< 0.0001

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**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	1102	1	5.0414	0.1286	1536.06	< 0.0001
MDRG	1103	1	4.9360	0.1020	2340.96	< 0.0001
MDRG	1104	1	4.3710	0.1131	1492.45	< 0.0001
MDRG	1105	1	4.4081	0.1856	564.37	< 0.0001
MDRG	1107	1	2.8451	0.1607	313.62	< 0.0001
MDRG	1109	1	3.0966	0.1752	312.35	< 0.0001
MDRG	1201	1	3.9640	0.1147	1195.14	< 0.0001
MDRG	1204	1	2.1056	0.2533	69.11	< 0.0001
MDRG	1301	1	4.7960	0.1469	1066.58	< 0.0001
MDRG	1302	1	5.0799	0.1201	1788.80	< 0.0001
MDRG	1303	1	4.7586	0.1082	1934.99	< 0.0001
MDRG	1304	1	4.6515	0.0890	2731.24	< 0.0001
MDRG	1305	1	3.9653	0.1907	432.43	< 0.0001
MDRG	1306	1	4.3537	0.1330	1070.96	< 0.0001
MDRG	1307	1	4.3969	0.1165	1425.06	< 0.0001
MDRG	1308	1	5.4393	0.1481	1348.24	< 0.0001
MDRG	1707	1	4.4304	0.1662	710.49	< 0.0001
MDRG	1709	1	4.9579	0.1586	977.57	< 0.0001
MDRG	1801	1	3.7724	0.1093	1191.21	< 0.0001
MDRG	1802	1	3.3601	0.1591	445.88	< 0.0001
MDRG	2104	1	4.1802	0.1201	1211.11	< 0.0001
MDRG	2108	1	1.4913	0.2924	26.02	< 0.0001
MDRG	2408	1	3.2022	0.2552	157.47	< 0.0001
MDRG	7702	1	4.4847	0.2241	400.46	< 0.0001
MDC	3	1	0.8583	0.1163	54.47	< 0.0001

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**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDC	4	1	1.9629	0.1475	177.11	< 0.0001
MDC	5	1	0.4740	0.1140	17.31	< 0.0001
MDC	6	1	0.8939	0.1094	66.75	< 0.0001
MDC	7	1	1.3417	0.1011	175.95	< 0.0001
MDC	8	1	1.9419	0.1196	263.68	< 0.0001
MDC	9	1	1.6083	0.1004	256.59	< 0.0001
MDC	11	1	0.9783	0.1337	53.55	< 0.0001
MDC	12	1	0.8933	0.1294	47.68	< 0.0001
MDC	13	1	2.9086	0.1881	239.08	< 0.0001
MDC	16	1	1.8744	0.2729	47.16	< 0.0001
MDC	17	1	1.4321	0.1399	104.74	< 0.0001
MDC	18	1	1.3195	0.1763	56.01	< 0.0001
MDC	21	1	0.8928	0.1380	41.84	< 0.0001
MDC	24	1	0.9861	0.2016	23.93	< 0.0001
MDC	Other	1	2.1402	0.3098	47.74	< 0.0001
TRANSFER	Transfer-in	1	0.1194	0.0420	8.09	0.0045
NOPRDAY	Procedure Days Data Not Available	1	-0.4813	0.0308	243.94	< 0.0001
COMORB	PERIVASC	1	0.1173	0.0345	11.55	0.0007
COMORB	DM	1	-0.1974	0.0237	69.38	< 0.0001
COMORB	DMCX	1	-0.2981	0.0570	27.33	< 0.0001
COMORB	RENFAIL	1	0.0270	0.0325	0.69	0.4065
COMORB	OBESE	1	0.1481	0.0251	34.80	< 0.0001
COMORB	WGHTLOSS	1	0.4519	0.0364	154.20	< 0.0001
COMORB	BLDLOSS	1	-0.1471	0.0651	5.10	0.0239
COMORB	ANEMDEF	1	-0.1708	0.0270	40.05	< 0.0001

c-statistic = 0.900

**Composite Weights for PSI #90**

Under the Hospital Inpatient Quality Reporting (IQR) program, the Centers for Medicare & Medicaid Services (CMS) adopted PSIs developed by AHRQ for use in “Hospital Compare”, a comparative public report of hospital performance. One of the adopted indicators is a composite measure: PSI #90 Patient Safety for Selected Indicators.

The PSI composite was ultimately endorsed by the National Quality Forum (NQF) in 2009 and therefore appears in the Hospital Compare report.

To utilize the NQF endorsed composite, users must use these “NQF Numerator Weights” when using the AHRQ QI software to compute the composite measure using their own data. Table 2 provides the NQF weights for this composite measure. The sum of the weights for the indicators included in the same composite always equals one.

Note that the weight for some of the component indicators is zero. The reason is that the composite measures developed in the AHRQ workgroup final reports included all of the relevant indicators regardless whether the indicator was endorsed by NQF. However, the evaluation criteria applied by NQF required that the components of a composite be either NQF endorsed as individual measures or determined to have met the criteria for endorsement of an individual measure. In the version of the AHRQ QI composite measures submitted to NQF, component indicators that did not meet these criteria were assigned a weight of zero. This method is simply a way of operationalizing the concept that the NQF-endorsed composites adopted by CMS do not include component indicators that were judged by the NQF not to meet the criteria for stand-alone endorsement.

**Table 14. NQF Numerator Weights for PSI #90**

INDICATOR	WEIGHT USEPOA = 0 <sup>1</sup>	WEIGHT USEPOA = 1 <sup>1</sup>
PSI #3 Pressure Ulcer Rate	0.2303	0.0226
PSI #6 Iatrogenic Pneumothorax Rate	0.0545	0.0708
PSI #7 Central Venous Catheter-Related Blood Stream Infection Rate	0.0563	0.0652
PSI #8 Postoperative Hip Fracture Rate	0.0025	0.0011
PSI #9 Perioperative Hemorrhage or Hematoma Rate <sup>2</sup>	0.0000	0.0000
PSI #10 Postoperative Physiologic and Metabolic Derangement Rate <sup>2</sup>	0.0000	0.0000
PSI #11 Postoperative Respiratory Failure Rate <sup>2</sup>	0.0000	0.0000
PSI #12 Perioperative Pulmonary Embolism or Deep Vein Thrombosis Rate	0.2572	0.2579
PSI #13 Postoperative Sepsis Rate	0.0603	0.0742
PSI #14 Postoperative Wound Dehiscence Rate	0.0097	0.0165
PSI #15 Accidental Puncture or Laceration Rate	0.3292	0.4917
SUM	1.0000	1.0000

<sup>1</sup> The use of present on admission (POA) data results in different weights for the composite. Without POA data, USEPOA = 0; With POA, USEPOA = 1.

<sup>2</sup> These weights are set to zero because these measures are not included in the NQF Endorsed Composite.

**Table A.1. Population Age Categories**

POPCAT	AGE RANGE
1	low - 4
2	5 - 9
3	10 - 14
4	15 - 17
5	18 - 24
6	25 - 29
7	30 - 34
8	35 - 39
9	40 - 44
10	45 - 49
11	50 - 54
12	55 - 59
13	60 - 64
14	65 - 69
15	70 - 74
16	75 - 79
17	80 - 84
18	85 - high

**Table A.2. Modified Diagnosis-Related Group (MDRG) Categories**

Column Headings

MDC – Major Diagnostic Category

M/S – Medical / Surgical DRG Indicator

MDRG – Modified DRG

CMS-DRG – Diagnosis-Related Group (DRG) Version 24 and earlier

MS-DRG – Diagnosis-Related Group (DRG) Version 25 and later

The modified DRG (MDRG) pools individual CMS-DRGs and MS-DRGs into a larger category. The MDRG is a four digit code. The first two digits are the MDC, and the second two digits are a sequence number (e.g., 01-04) within MDC. CMS-DRGs that are divided into separate CMS-DRGs due to the presence of complications and comorbidities (CC) are pooled into a single MDRG. MS-DRGs that are divided into separate MS-DRGs due to the presence of CC and Major CC (MCC) are pooled into a single MDRG. The CMS crosswalk was used to pool CMS-DRGs and MS-DRGs into a single MDRG.

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
01	S	0101	528	INTRACRANIAL VASCULAR PROC W PDX HEMORRHAGE	020	INTRACRANIAL VASCULAR PROCEDURES W PDX HEMORRHAGE W MCC
01	S	0101	528	INTRACRANIAL VASCULAR PROC W PDX HEMORRHAGE	021	INTRACRANIAL VASCULAR PROCEDURES W PDX HEMORRHAGE W CC
01	S	0101	528	INTRACRANIAL VASCULAR PROC W PDX HEMORRHAGE	022	INTRACRANIAL VASCULAR PROCEDURES W PDX HEMORRHAGE W/O CC/MCC
01	S	0102	543	CRANIOTOMY W MAJOR DEVICE IMPLANT OR ACUTE COMPLEX CNS PRINCIPAL DIAGNOSIS	023	CRANIO W MAJOR DEV IMPL/ACUTE COMPLEX CNS PDX W MCC OR CHEMO IMPLANT
01	S	0102	543	CRANIOTOMY W MAJOR DEVICE IMPLANT OR ACUTE COMPLEX CNS PRINCIPAL DIAGNOSIS	024	CRANIO W MAJOR DEV IMPL/ACUTE COMPLEX CNS PDX W/O MCC
01	S	0103	001	CRANIOTOMY AGE >17 W CC	025	CRANIOTOMY & ENDOVASCULAR INTRACRANIAL PROCEDURES W MCC
01	S	0103	002	CRANIOTOMY AGE >17 W/O CC	026	CRANIOTOMY & ENDOVASCULAR INTRACRANIAL PROCEDURES W CC
01	S	0103	003	CRANIOTOMY AGE 0-17	027	CRANIOTOMY & ENDOVASCULAR INTRACRANIAL PROCEDURES W/O CC/MCC
01	S	0104	531	SPINAL PROCEDURES W CC	028	SPINAL PROCEDURES W MCC
01	S	0104	532	SPINAL PROCEDURES W/O CC	029	SPINAL PROCEDURES W CC OR SPINAL NEUROSTIMULATORS

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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
01	S	0104	532	SPINAL PROCEDURES W/O CC	030	SPINAL PROCEDURES W/O CC/MCC
01	S	0104	004	SPINAL PROCEDURES (NO LONGER VALID)		
01	S	0105	529	VENTRICULAR SHUNT PROCEDURES W CC	031	VENTRICULAR SHUNT PROCEDURES W MCC
01	S	0105	530	VENTRICULAR SHUNT PROCEDURES W/O CC	032	VENTRICULAR SHUNT PROCEDURES W CC
01	S	0105	530	VENTRICULAR SHUNT PROCEDURES W/O CC	033	VENTRICULAR SHUNT PROCEDURES W/O CC/MCC
01	S	0106	577	CAROTID ARTERY STENT PROCEDURE	034	CAROTID ARTERY STENT PROCEDURE W MCC
01	S	0106	577	CAROTID ARTERY STENT PROCEDURE	035	CAROTID ARTERY STENT PROCEDURE W CC
01	S	0106	577	CAROTID ARTERY STENT PROCEDURE	036	CAROTID ARTERY STENT PROCEDURE W/O CC/MCC
01	S	0107	533	EXTRACRANIAL PROCEDURES W CC	037	EXTRACRANIAL PROCEDURES W MCC
01	S	0107	534	EXTRACRANIAL PROCEDURES W/O CC	038	EXTRACRANIAL PROCEDURES W CC
01	S	0107	534	EXTRACRANIAL PROCEDURES W/O CC	039	EXTRACRANIAL PROCEDURES W/O CC/MCC
01	S	0107	005	EXTRACRANIAL PROCEDURES (NO LONGER VALID)		
01	S	0108	006	CARPAL TUNNEL RELEASE	040	PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W MCC
01	S	0108	007	PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W CC	041	PERIPH/CRANIAL NERVE & OTHER NERV SYST PROC W CC OR PERIPH NEUROSTIM
01	S	0108	008	PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W/O CC	042	PERIPH & CRANIAL NERVE & OTHER NERV SYST PROC W/O CC/MCC
01	M	0109	009	SPINAL DISORDERS & INJURIES	052	SPINAL DISORDERS & INJURIES W CC/MCC
01	M	0109	009	SPINAL DISORDERS & INJURIES	053	SPINAL DISORDERS & INJURIES W/O CC/MCC
01	M	0110	010	NERVOUS SYSTEM NEOPLASMS W CC	054	NERVOUS SYSTEM NEOPLASMS W MCC
01	M	0110	011	NERVOUS SYSTEM NEOPLASMS W/O CC	055	NERVOUS SYSTEM NEOPLASMS W/O MCC
01	M	0111	012	DEGENERATIVE NERVOUS SYSTEM DISORDERS	056	DEGENERATIVE NERVOUS SYSTEM DISORDERS W MCC
01	M	0111	012	DEGENERATIVE NERVOUS SYSTEM DISORDERS	057	DEGENERATIVE NERVOUS SYSTEM DISORDERS W/O MCC
01	M	0112	013	MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA	058	MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA W MCC
01	M	0112	013	MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA	059	MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA W CC
01	M	0112	013	MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA	060	MULTIPLE SCLEROSIS & CEREBELLAR ATAXIA W/O CC/MCC
01	M	0113	559	ACUTE ISCHEMIC STROKE WITH USE OF THROMBOLYTIC AGENT	061	ACUTE ISCHEMIC STROKE W USE OF THROMBOLYTIC AGENT W MCC

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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
01	M	0113	559	ACUTE ISCHEMIC STROKE WITH USE OF THROMBOLYTIC AGENT	062	ACUTE ISCHEMIC STROKE W USE OF THROMBOLYTIC AGENT W CC
01	M	0113	559	ACUTE ISCHEMIC STROKE WITH USE OF THROMBOLYTIC AGENT	063	ACUTE ISCHEMIC STROKE W USE OF THROMBOLYTIC AGENT W/O CC/MCC
01	M	0114	014	INTRACRANIAL HEMORRHAGE OR CEREBRAL INFARCTION	064	INTRACRANIAL HEMORRHAGE OR CEREBRAL INFARCTION W MCC
01	M	0114	014	INTRACRANIAL HEMORRHAGE OR CEREBRAL INFARCTION	065	INTRACRANIAL HEMORRHAGE OR CEREBRAL INFARCTION W CC
01	M	0114	014	INTRACRANIAL HEMORRHAGE OR CEREBRAL INFARCTION	066	INTRACRANIAL HEMORRHAGE OR CEREBRAL INFARCTION W/O CC/MCC
01	M	0115	015	NONSPECIFIC CVA & PRECEREBRAL OCCLUSION W/O INFARCT	067	NONSPECIFIC CVA & PRECEREBRAL OCCLUSION W/O INFARCT W MCC
01	M	0115	015	NONSPECIFIC CVA & PRECEREBRAL OCCLUSION W/O INFARCT	068	NONSPECIFIC CVA & PRECEREBRAL OCCLUSION W/O INFARCT W/O MCC
01	M	0116	524	TRANSIENT ISCHEMIA	069	TRANSIENT ISCHEMIA
01	M	0117	016	NONSPECIFIC CEREBROVASCULAR DISORDERS W CC	070	NONSPECIFIC CEREBROVASCULAR DISORDERS W MCC
01	M	0117	017	NONSPECIFIC CEREBROVASCULAR DISORDERS W/O CC	071	NONSPECIFIC CEREBROVASCULAR DISORDERS W CC
01	M	0117	017	NONSPECIFIC CEREBROVASCULAR DISORDERS W/O CC	072	NONSPECIFIC CEREBROVASCULAR DISORDERS W/O CC/MCC
01	M	0118	018	CRANIAL & PERIPHERAL NERVE DISORDERS W CC	073	CRANIAL & PERIPHERAL NERVE DISORDERS W MCC
01	M	0118	019	CRANIAL & PERIPHERAL NERVE DISORDERS W/O CC	074	CRANIAL & PERIPHERAL NERVE DISORDERS W/O MCC
01	M	0119	021	VIRAL MENINGITIS	075	VIRAL MENINGITIS W CC/MCC
01	M	0119	021	VIRAL MENINGITIS	076	VIRAL MENINGITIS W/O CC/MCC
01	M	0120	022	HYPERTENSIVE ENCEPHALOPATHY	077	HYPERTENSIVE ENCEPHALOPATHY W MCC
01	M	0120	022	HYPERTENSIVE ENCEPHALOPATHY	078	HYPERTENSIVE ENCEPHALOPATHY W CC
01	M	0120	022	HYPERTENSIVE ENCEPHALOPATHY	079	HYPERTENSIVE ENCEPHALOPATHY W/O CC/MCC
01	M	0121	023	NONTRAUMATIC STUPOR & COMA	080	NONTRAUMATIC STUPOR & COMA W MCC
01	M	0121	023	NONTRAUMATIC STUPOR & COMA	081	NONTRAUMATIC STUPOR & COMA W/O MCC
01	M	0122	027	TRAUMATIC STUPOR & COMA, COMA >1 HR	082	TRAUMATIC STUPOR & COMA, COMA >1 HR W MCC
01	M	0122	027	TRAUMATIC STUPOR & COMA, COMA >1 HR	083	TRAUMATIC STUPOR & COMA, COMA >1 HR W CC
01	M	0122	027	TRAUMATIC STUPOR & COMA, COMA >1 HR	084	TRAUMATIC STUPOR & COMA, COMA >1 HR W/O CC/MCC

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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
01	M	0123	028	TRAUMATIC STUPOR & COMA, COMA <1 HR AGE >17 W CC	085	TRAUMATIC STUPOR & COMA, COMA <1 HR W MCC
01	M	0123	029	TRAUMATIC STUPOR & COMA, COMA <1 HR AGE >17 W/O CC	086	TRAUMATIC STUPOR & COMA, COMA <1 HR W CC
01	M	0123	030	TRAUMATIC STUPOR & COMA, COMA <1 HR AGE 0-17	087	TRAUMATIC STUPOR & COMA, COMA <1 HR W/O CC/MCC
01	M	0124	031	CONCUSSION AGE >17 W CC	088	CONCUSSION W MCC
01	M	0124	032	CONCUSSION AGE >17 W/O CC	089	CONCUSSION W CC
01	M	0124	033	CONCUSSION AGE 0-17	090	CONCUSSION W/O CC/MCC
01	M	0125	034	OTHER DISORDERS OF NERVOUS SYSTEM W CC	091	OTHER DISORDERS OF NERVOUS SYSTEM W MCC
01	M	0125	035	OTHER DISORDERS OF NERVOUS SYSTEM W/O CC	092	OTHER DISORDERS OF NERVOUS SYSTEM W CC
01	M	0125	035	OTHER DISORDERS OF NERVOUS SYSTEM W/O CC	093	OTHER DISORDERS OF NERVOUS SYSTEM W/O CC/MCC
01	M	0126	560	BACTERIAL & TUBERCULOUS INFECTIONS OF NERVOUS SYSTEM	094	BACTERIAL & TUBERCULOUS INFECTIONS OF NERVOUS SYSTEM W MCC
01	M	0126	560	BACTERIAL & TUBERCULOUS INFECTIONS OF NERVOUS SYSTEM	095	BACTERIAL & TUBERCULOUS INFECTIONS OF NERVOUS SYSTEM W CC
01	M	0126	560	BACTERIAL & TUBERCULOUS INFECTIONS OF NERVOUS SYSTEM	096	BACTERIAL & TUBERCULOUS INFECTIONS OF NERVOUS SYSTEM W/O CC/MCC
01	M	0127	561	NON-BACTERIAL INFECTIONS OF NERVOUS SYSTEM EXCEPT VIRAL MENINGITIS	097	NON-BACTERIAL INFECT OF NERVOUS SYS EXC VIRAL MENINGITIS W MCC
01	M	0127	561	NON-BACTERIAL INFECTIONS OF NERVOUS SYSTEM EXCEPT VIRAL MENINGITIS	098	NON-BACTERIAL INFECT OF NERVOUS SYS EXC VIRAL MENINGITIS W CC
01	M	0127	561	NON-BACTERIAL INFECTIONS OF NERVOUS SYSTEM EXCEPT VIRAL MENINGITIS	099	NON-BACTERIAL INFECT OF NERVOUS SYS EXC VIRAL MENINGITIS W/O CC/MCC
01	M	0128	026	SEIZURE & HEADACHE AGE 0-17	100	SEIZURES W MCC
01	M	0128	562	SEIZURE AGE > 17 W CC	101	SEIZURES W/O MCC
01	M	0128	563	SEIZURE AGE > 17 W/O CC	101	SEIZURES W/O MCC
01	M	0129	564	HEADACHES AGE >17	102	HEADACHES W MCC
01	M	0129	564	HEADACHES AGE >17	103	HEADACHES W/O MCC
01	M	0198	020	NERVOUS SYSTEM INFECTION EXCEPT VIRAL MENINGITIS (NO LONGER VALID)		
01	M	0198	024	SEIZURE & HEADACHE AGE >17 W CC (NO LONGER VALID)		



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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
01	M	0198	025	SEIZURE & HEADACHE AGE >17 WO CC (NO LONGER VALID)		
04	M	0198	474	NO LONGER VALID		
02	S	0201	037	ORBITAL PROCEDURES	113	ORBITAL PROCEDURES W CC/MCC
02	S	0201	037	ORBITAL PROCEDURES	114	ORBITAL PROCEDURES W/O CC/MCC
02	S	0202	040	EXTRAOCULAR PROCEDURES EXCEPT ORBIT AGE >17	115	EXTRAOCULAR PROCEDURES EXCEPT ORBIT
02	S	0202	041	EXTRAOCULAR PROCEDURES EXCEPT ORBIT AGE 0-17	115	EXTRAOCULAR PROCEDURES EXCEPT ORBIT
02	S	0203	036	RETINAL PROCEDURES	116	INTRAOCULAR PROCEDURES W CC/MCC
02	S	0203	038	PRIMARY IRIS PROCEDURES	117	INTRAOCULAR PROCEDURES W/O CC/MCC
02	S	0203	039	LENS PROCEDURES WITH OR WITHOUT VITRECTOMY	117	INTRAOCULAR PROCEDURES W/O CC/MCC
02	S	0203	042	INTRAOCULAR PROCEDURES EXCEPT RETINA, IRIS & LENS	117	INTRAOCULAR PROCEDURES W/O CC/MCC
02	M	0204	044	ACUTE MAJOR EYE INFECTIONS	121	ACUTE MAJOR EYE INFECTIONS W CC/MCC
02	M	0204	044	ACUTE MAJOR EYE INFECTIONS	122	ACUTE MAJOR EYE INFECTIONS W/O CC/MCC
02	M	0205	045	NEUROLOGICAL EYE DISORDERS	123	NEUROLOGICAL EYE DISORDERS
02	M	0206	043	HYPHEMA	124	OTHER DISORDERS OF THE EYE W MCC
02	M	0206	046	OTHER DISORDERS OF THE EYE AGE >17 W CC	125	OTHER DISORDERS OF THE EYE W/O MCC
02	M	0206	047	OTHER DISORDERS OF THE EYE AGE >17 W/O CC	125	OTHER DISORDERS OF THE EYE W/O MCC
02	M	0206	048	OTHER DISORDERS OF THE EYE AGE 0-17	125	OTHER DISORDERS OF THE EYE W/O MCC
03	S	0301	049	MAJOR HEAD & NECK PROCEDURES	129	MAJOR HEAD & NECK PROCEDURES W CC/MCC OR MAJOR DEVICE
03	S	0301	049	MAJOR HEAD & NECK PROCEDURES	130	MAJOR HEAD & NECK PROCEDURES W/O CC/MCC
03	S	0301	049	MAJOR HEAD & NECK PROCEDURES	131	CRANIAL/FACIAL PROCEDURES W CC/MCC
03	S	0301	049	MAJOR HEAD & NECK PROCEDURES	132	CRANIAL/FACIAL PROCEDURES W/O CC/MCC
03	S	0302	052	CLEFT LIP & PALATE REPAIR	133	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W CC/MCC
03	S	0302	055	MISCELLANEOUS EAR, NOSE, MOUTH & THROAT PROCEDURES	134	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
03	S	0302	056	RHINOPLASTY	134	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC

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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
03	S	0302	057	T&A PROC, EXCEPT TONSILLECTOMY &/OR ADENOIDECTOMY ONLY, AGE >17	134	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
03	S	0302	058	T&A PROC, EXCEPT TONSILLECTOMY &/OR ADENOIDECTOMY ONLY, AGE 0-17	134	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
03	S	0302	059	TONSILLECTOMY &/OR ADENOIDECTOMY ONLY, AGE >17	134	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
03	S	0302	060	TONSILLECTOMY &/OR ADENOIDECTOMY ONLY, AGE 0-17	134	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
03	S	0302	061	MYRINGOTOMY W TUBE INSERTION AGE >17	134	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
03	S	0302	062	MYRINGOTOMY W TUBE INSERTION AGE 0-17	134	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
03	S	0302	063	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES	134	OTHER EAR, NOSE, MOUTH & THROAT O.R. PROCEDURES W/O CC/MCC
03	S	0303	053	SINUS & MASTOID PROCEDURES AGE >17	135	SINUS & MASTOID PROCEDURES W CC/MCC
03	S	0303	054	SINUS & MASTOID PROCEDURES AGE 0-17	136	SINUS & MASTOID PROCEDURES W/O CC/MCC
03	S	0304	168	MOUTH PROCEDURES W CC	137	MOUTH PROCEDURES W CC/MCC
03	S	0304	169	MOUTH PROCEDURES W/O CC	138	MOUTH PROCEDURES W/O CC/MCC
03	S	0305	050	SIALOADENECTOMY	139	SALIVARY GLAND PROCEDURES
03	S	0305	051	SALIVARY GLAND PROCEDURES EXCEPT SIALOADENECTOMY	139	SALIVARY GLAND PROCEDURES
03	M	0306	064	EAR, NOSE, MOUTH & THROAT MALIGNANCY	146	EAR, NOSE, MOUTH & THROAT MALIGNANCY W MCC
03	M	0306	064	EAR, NOSE, MOUTH & THROAT MALIGNANCY	147	EAR, NOSE, MOUTH & THROAT MALIGNANCY W CC
03	M	0306	064	EAR, NOSE, MOUTH & THROAT MALIGNANCY	148	EAR, NOSE, MOUTH & THROAT MALIGNANCY W/O CC/MCC
03	M	0307	065	DYSEQUILIBRIUM	149	DYSEQUILIBRIUM
03	M	0308	066	EPISTAXIS	150	EPISTAXIS W MCC
03	M	0308	066	EPISTAXIS	151	EPISTAXIS W/O MCC
03	M	0309	067	EPIGLOTTITIS	152	OTITIS MEDIA & URI W MCC
03	M	0309	068	OTITIS MEDIA & URI AGE >17 W CC	153	OTITIS MEDIA & URI W/O MCC
03	M	0309	069	OTITIS MEDIA & URI AGE >17 W/O CC	153	OTITIS MEDIA & URI W/O MCC
03	M	0309	070	OTITIS MEDIA & URI AGE 0-17	153	OTITIS MEDIA & URI W/O MCC
03	M	0309	071	LARYNGOTRACHEITIS	153	OTITIS MEDIA & URI W/O MCC
03	M	0310	072	NASAL TRAUMA & DEFORMITY	154	NASAL TRAUMA & DEFORMITY W MCC

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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
03	M	0310	073	OTHER EAR, NOSE, MOUTH & THROAT DIAGNOSES AGE >17	155	NASAL TRAUMA & DEFORMITY W CC
03	M	0310	074	OTHER EAR, NOSE, MOUTH & THROAT DIAGNOSES AGE 0-17	156	NASAL TRAUMA & DEFORMITY W/O CC/MCC
03	M	0311	185	DENTAL & ORAL DIS EXCEPT EXTRACTIONS & RESTORATIONS, AGE >17	157	DENTAL & ORAL DISEASES W MCC
03	M	0311	186	DENTAL & ORAL DIS EXCEPT EXTRACTIONS & RESTORATIONS, AGE 0-17	158	DENTAL & ORAL DISEASES W CC
03	M	0311	187	DENTAL EXTRACTIONS & RESTORATIONS	159	DENTAL & ORAL DISEASES W/O CC/MCC
04	S	0401	075	MAJOR CHEST PROCEDURES	163	MAJOR CHEST PROCEDURES W MCC
04	S	0401	075	MAJOR CHEST PROCEDURES	164	MAJOR CHEST PROCEDURES W CC
04	S	0401	075	MAJOR CHEST PROCEDURES	165	MAJOR CHEST PROCEDURES W/O CC/MCC
04	S	0402	076	OTHER RESP SYSTEM O.R. PROCEDURES W CC	166	OTHER RESP SYSTEM O.R. PROCEDURES W MCC
04	S	0402	077	OTHER RESP SYSTEM O.R. PROCEDURES W/O CC	167	OTHER RESP SYSTEM O.R. PROCEDURES W CC
04	S	0402	077	OTHER RESP SYSTEM O.R. PROCEDURES W/O CC	168	OTHER RESP SYSTEM O.R. PROCEDURES W/O CC/MCC
04	M	0403	078	PULMONARY EMBOLISM	175	PULMONARY EMBOLISM W MCC
04	M	0403	078	PULMONARY EMBOLISM	176	PULMONARY EMBOLISM W/O MCC
04	M	0404	079	RESPIRATORY INFECTIONS & INFLAMMATIONS AGE >17 W CC	177	RESPIRATORY INFECTIONS & INFLAMMATIONS W MCC
04	M	0404	080	RESPIRATORY INFECTIONS & INFLAMMATIONS AGE >17 W/O CC	178	RESPIRATORY INFECTIONS & INFLAMMATIONS W CC
04	M	0404	081	RESPIRATORY INFECTIONS & INFLAMMATIONS AGE 0-17	179	RESPIRATORY INFECTIONS & INFLAMMATIONS W/O CC/MCC
04	M	0405	082	RESPIRATORY NEOPLASMS	180	RESPIRATORY NEOPLASMS W MCC
04	M	0405	082	RESPIRATORY NEOPLASMS	181	RESPIRATORY NEOPLASMS W CC
04	M	0405	082	RESPIRATORY NEOPLASMS	182	RESPIRATORY NEOPLASMS W/O CC/MCC
04	M	0406	083	MAJOR CHEST TRAUMA W CC	183	MAJOR CHEST TRAUMA W MCC
04	M	0406	084	MAJOR CHEST TRAUMA W/O CC	184	MAJOR CHEST TRAUMA W CC
04	M	0406	084	MAJOR CHEST TRAUMA W/O CC	185	MAJOR CHEST TRAUMA W/O CC/MCC
04	M	0407	085	PLEURAL EFFUSION W CC	186	PLEURAL EFFUSION W MCC
04	M	0407	086	PLEURAL EFFUSION W/O CC	187	PLEURAL EFFUSION W CC
04	M	0407	086	PLEURAL EFFUSION W/O CC	188	PLEURAL EFFUSION W/O CC/MCC

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
04	M	0408	087	PULMONARY EDEMA & RESPIRATORY FAILURE	189	PULMONARY EDEMA & RESPIRATORY FAILURE
04	M	0409	088	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	190	CHRONIC OBSTRUCTIVE PULMONARY DISEASE W MCC
04	M	0409	088	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	191	CHRONIC OBSTRUCTIVE PULMONARY DISEASE W CC
04	M	0409	088	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	192	CHRONIC OBSTRUCTIVE PULMONARY DISEASE W/O CC/MCC
04	M	0410	089	SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	193	SIMPLE PNEUMONIA & PLEURISY W MCC
04	M	0410	090	SIMPLE PNEUMONIA & PLEURISY AGE >17 W/O CC	194	SIMPLE PNEUMONIA & PLEURISY W CC
04	M	0410	091	SIMPLE PNEUMONIA & PLEURISY AGE 0-17	195	SIMPLE PNEUMONIA & PLEURISY W/O CC/MCC
04	M	0411	092	INTERSTITIAL LUNG DISEASE W CC	196	INTERSTITIAL LUNG DISEASE W MCC
04	M	0411	093	INTERSTITIAL LUNG DISEASE W/O CC	197	INTERSTITIAL LUNG DISEASE W CC
04	M	0411	093	INTERSTITIAL LUNG DISEASE W/O CC	198	INTERSTITIAL LUNG DISEASE W/O CC/MCC
04	M	0412	094	PNEUMOTHORAX W CC	199	PNEUMOTHORAX W MCC
04	M	0412	095	PNEUMOTHORAX W/O CC	200	PNEUMOTHORAX W CC
04	M	0412	095	PNEUMOTHORAX W/O CC	201	PNEUMOTHORAX W/O CC/MCC
04	M	0413	096	BRONCHITIS & ASTHMA AGE >17 W CC	202	BRONCHITIS & ASTHMA W CC/MCC
04	M	0413	097	BRONCHITIS & ASTHMA AGE >17 W/O CC	203	BRONCHITIS & ASTHMA W/O CC/MCC
04	M	0413	098	BRONCHITIS & ASTHMA AGE 0-17	203	BRONCHITIS & ASTHMA W/O CC/MCC
04	M	0414	099	RESPIRATORY SIGNS & SYMPTOMS W CC	204	RESPIRATORY SIGNS & SYMPTOMS
04	M	0414	100	RESPIRATORY SIGNS & SYMPTOMS W/O CC	204	RESPIRATORY SIGNS & SYMPTOMS
04	M	0415	101	OTHER RESPIRATORY SYSTEM DIAGNOSES W CC	205	OTHER RESPIRATORY SYSTEM DIAGNOSES W MCC
04	M	0415	102	OTHER RESPIRATORY SYSTEM DIAGNOSES W/O CC	206	OTHER RESPIRATORY SYSTEM DIAGNOSES W/O MCC
04	M	0416	565	RESPIRATORY SYSTEM DIAGNOSIS WITH VENTILATOR SUPPORT 96+ HOURS	207	RESPIRATORY SYSTEM DIAGNOSIS W VENTILATOR SUPPORT 96+ HOURS
04	M	0416	566	RESPIRATORY SYSTEM DIAGNOSIS WITH VENTILATOR SUPPORT < 96 HOURS	208	RESPIRATORY SYSTEM DIAGNOSIS W VENTILATOR SUPPORT <96 HOURS
04	M	0416	475	RESPIRATORY SYSTEM DIAGNOSIS WITH VENTILATOR SUPPORT (NO LONGER VALID)		
05	S	0501	525	OTHER HEART ASSIST SYSTEM IMPLANT	215	OTHER HEART ASSIST SYSTEM IMPLANT

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
05	S	0502	555	PERCUTANEOUS CARDIOVASCULAR PROC W MAJOR CV DX	248	PERC CARDIOVASC PROC W NON-DRUG-ELUTING STENT W MCC OR 4+ VES/STENTS
05	S	0502	556	PERCUTANEOUS CARDIOVASC PROC W NON-DRUG-ELUTING STENT W/O MAJ CV DX	249	PERC CARDIOVASC PROC W NON-DRUG-ELUTING STENT W/O MCC
05	S	0502	516	PERCUTANEOUS CARDIOVASC PROC W AMI		
05	S	0502	517	PERC CARDIO PROC W NON-DRUG ELUTING STENT WO AMI		
05	S	0503	104	CARDIAC VALVE & OTH MAJOR CARDIOTHORACIC PROC W CARD CATH	216	CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W CARD CATH W MCC
05	S	0503	104	CARDIAC VALVE & OTH MAJOR CARDIOTHORACIC PROC W CARD CATH	217	CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W CARD CATH W CC
05	S	0503	104	CARDIAC VALVE & OTH MAJOR CARDIOTHORACIC PROC W CARD CATH	218	CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W CARD CATH W/O CC/MCC
05	S	0503	105	CARDIAC VALVE & OTH MAJOR CARDIOTHORACIC PROC W/O CARD CATH	219	CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W/O CARD CATH W MCC
05	S	0503	105	CARDIAC VALVE & OTH MAJOR CARDIOTHORACIC PROC W/O CARD CATH	220	CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W/O CARD CATH W CC
05	S	0503	105	CARDIAC VALVE & OTH MAJOR CARDIOTHORACIC PROC W/O CARD CATH	221	CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W/O CARD CATH W/O CC/MCC
05	S	0504	535	CARDIAC DEFIB IMPLANT W CARDIAC CATH W AMI/HF/SHOCK	222	CARDIAC DEFIB IMPLANT W CARDIAC CATH W AMI/HF/SHOCK W MCC
05	S	0504	535	CARDIAC DEFIB IMPLANT W CARDIAC CATH W AMI/HF/SHOCK	223	CARDIAC DEFIB IMPLANT W CARDIAC CATH W AMI/HF/SHOCK W/O MCC
05	S	0504	536	CARDIAC DEFIB IMPLANT W CARDIAC CATH W/O AMI/HF/SHOCK	224	CARDIAC DEFIB IMPLANT W CARDIAC CATH W/O AMI/HF/SHOCK W MCC
05	S	0504	536	CARDIAC DEFIB IMPLANT W CARDIAC CATH W/O AMI/HF/SHOCK	225	CARDIAC DEFIB IMPLANT W CARDIAC CATH W/O AMI/HF/SHOCK W/O MCC
05	S	0504	515	CARDIAC DEFIBRILLATOR IMPLANT W/O CARDIAC CATH	226	CARDIAC DEFIBRILLATOR IMPLANT W/O CARDIAC CATH W MCC
05	S	0504	515	CARDIAC DEFIBRILLATOR IMPLANT W/O CARDIAC CATH	227	CARDIAC DEFIBRILLATOR IMPLANT W/O CARDIAC CATH W/O MCC
05	S	0505	108	OTHER CARDIOTHORACIC PROCEDURES	228	OTHER CARDIOTHORACIC PROCEDURES W MCC
05	S	0505	108	OTHER CARDIOTHORACIC PROCEDURES	229	OTHER CARDIOTHORACIC PROCEDURES W CC
05	S	0505	108	OTHER CARDIOTHORACIC PROCEDURES	230	OTHER CARDIOTHORACIC PROCEDURES W/O CC/MCC
05	S	0506	106	CORONARY BYPASS W PTCA	231	CORONARY BYPASS W PTCA W MCC
05	S	0506	106	CORONARY BYPASS W PTCA	232	CORONARY BYPASS W PTCA W/O MCC

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
05	S	0507	547	CORONARY BYPASS W CARDIAC CATH W MAJOR CV DX	233	CORONARY BYPASS W CARDIAC CATH W MCC
05	S	0507	548	CORONARY BYPASS W CARDIAC CATH W/O MAJOR CV DX	234	CORONARY BYPASS W CARDIAC CATH W/O MCC
05	S	0507	549	CORONARY BYPASS W/O CARDIAC CATH W MAJOR CV DX	235	CORONARY BYPASS W/O CARDIAC CATH W MCC
05	S	0507	550	CORONARY BYPASS W/O CARDIAC CATH W/O MAJOR CV DX	236	CORONARY BYPASS W/O CARDIAC CATH W/O MCC
05	S	0507	107	CORONARY BYPASS W CARDIAC CATH (NO LONGER VALID)		
05	S	0507	109	CORONARY BYPASS WO PTCA OR CARDIAC CATH (NO LONGER VALID)		
05	S	0508	110	MAJOR CARDIOVASCULAR PROCEDURES W CC	237	MAJOR CARDIOVASC PROCEDURES W MCC OR THORACIC AORTIC ANUERYSM REPAIR
05	S	0508	111	MAJOR CARDIOVASCULAR PROCEDURES W/O CC	238	MAJOR CARDIOVASCULAR PROCEDURES W/O MCC
05	S	0509	113	AMPUTATION FOR CIRC SYSTEM DISORDERS EXCEPT UPPER LIMB & TOE	239	AMPUTATION FOR CIRC SYS DISORDERS EXC UPPER LIMB & TOE W MCC
05	S	0509	113	AMPUTATION FOR CIRC SYSTEM DISORDERS EXCEPT UPPER LIMB & TOE	240	AMPUTATION FOR CIRC SYS DISORDERS EXC UPPER LIMB & TOE W CC
05	S	0509	113	AMPUTATION FOR CIRC SYSTEM DISORDERS EXCEPT UPPER LIMB & TOE	241	AMPUTATION FOR CIRC SYS DISORDERS EXC UPPER LIMB & TOE W/O CC/MCC
05	S	0510	551	PERMANENT CARDIAC PACEMAKER IMPL W MAJ CV DX OR AICD LEAD OR GNRTR	242	PERMANENT CARDIAC PACEMAKER IMPLANT W MCC
05	S	0510	552	OTHER PERMANENT CARDIAC PACEMAKER IMPLANT W/O MAJOR CV DX	243	PERMANENT CARDIAC PACEMAKER IMPLANT W CC
05	S	0510	552	OTHER PERMANENT CARDIAC PACEMAKER IMPLANT W/O MAJOR CV DX	244	PERMANENT CARDIAC PACEMAKER IMPLANT W/O CC/MCC
05	S	0510	552	OTHER PERMANENT CARDIAC PACEMAKER IMPLANT W/O MAJOR CV DX	245	AICD LEAD & GENERATOR PROCEDURES
05	S	0510	115	PRM CARD PACEM IMPL W AMI/HR/SHOCK OR AICD LEAD OR GNRTR (NO LONGER VALID)		
05	S	0510	116	OTHER PERMANENT CARDIAC PACEMAKER IMPLANT (NO LONGER VALID)		
05	S	0510	552	OTHER PERMANENT CARDIAC PACEMAKER IMPLANT W/O MAJOR CV DX	265	AICD LEAD PROCEDURES
05	S	0511	557	PERCUTANEOUS CARDIOVASCULAR PROC W DRUG-ELUTING STENT W MAJOR CV DX	246	PERC CARDIOVASC PROC W DRUG-ELUTING STENT W MCC OR 4+ VESSELS/STENTS

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
05	S	0511	558	PERCUTANEOUS CARDIOVASCULAR PROC W DRUG-ELUTING STENT W/O MAJ CV DX	247	PERC CARDIOVASC PROC W DRUG-ELUTING STENT W/O MCC
05	S	0511	526	PERCUTNEOUS CARDIOVASULAR PROC W DRUG ELUTING STENT W AM		
05	S	0511	527	PERCUTNEOUS CARDIOVASULAR PROC W DRUG ELUTING STENT WO A		
05	S	0513	518	PERC CARDIO PROC W/O CORONARY ARTERY STENT OR AMI	250	PERC CARDIOVASC PROC W/O CORONARY ARTERY STENT OR AMI W MCC
05	S	0513	518	PERC CARDIO PROC W/O CORONARY ARTERY STENT OR AMI	251	PERC CARDIOVASC PROC W/O CORONARY ARTERY STENT OR AMI W/O MCC
05	S	0514	479	OTHER VASCULAR PROCEDURES W/O CC	252	OTHER VASCULAR PROCEDURES W MCC
05	S	0514	553	OTHER VASCULAR PROCEDURES W CC W MAJOR CV DX	253	OTHER VASCULAR PROCEDURES W CC
05	S	0514	554	OTHER VASCULAR PROCEDURES W CC W/O MAJOR CV DX	254	OTHER VASCULAR PROCEDURES W/O CC/MCC
05	S	0514	478	OTHER VASCULAR PROCEDURES W CC		
05	S	0515	114	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS	255	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS W MCC
05	S	0515	114	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS	256	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS W CC
05	S	0515	114	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS	257	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS W/O CC/MCC
05	S	0516	118	CARDIAC PACEMAKER DEVICE REPLACEMENT	258	CARDIAC PACEMAKER DEVICE REPLACEMENT W MCC
05	S	0516	118	CARDIAC PACEMAKER DEVICE REPLACEMENT	259	CARDIAC PACEMAKER DEVICE REPLACEMENT W/O MCC
05	S	0517	117	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT	260	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT W MCC
05	S	0517	117	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT	261	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT W CC
05	S	0517	117	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT	262	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT W/O CC/MCC
05	S	0518	119	VEIN LIGATION & STRIPPING	263	VEIN LIGATION & STRIPPING
05	S	0519	120	OTHER CIRCULATORY SYSTEM O.R. PROCEDURES	264	OTHER CIRCULATORY SYSTEM O.R. PROCEDURES
05	M	0520	121	CIRCULATORY DISORDERS W AMI & MAJOR COMP, DISCHARGED ALIVE	280	ACUTE MYOCARDIAL INFARCTION, DISCHARGED ALIVE W MCC
05	M	0520	122	CIRCULATORY DISORDERS W AMI W/O MAJOR COMP, DISCHARGED ALIVE	281	ACUTE MYOCARDIAL INFARCTION, DISCHARGED ALIVE W CC

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
05	M	0520	122	CIRCULATORY DISORDERS W AMI W/O MAJOR COMP, DISCHARGED ALIVE	282	ACUTE MYOCARDIA INFARCTION, DISCHARGED ALIVE W/O CC/MCC
05	M	0521	123	CIRCULATORY DISORDERS W AMI, EXPIRED	283	ACUTE MYOCARDIAL INFARCTION, EXPIRED W MCC
05	M	0521	123	CIRCULATORY DISORDERS W AMI, EXPIRED	284	ACUTE MYOCARDIAL INFARCTION, EXPIRED W CC
05	M	0521	123	CIRCULATORY DISORDERS W AMI, EXPIRED	285	ACUTE MYOCARDIAL INFARCTION, EXPIRED W/O CC/MCC
05	M	0522	124	CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH & COMPLEX DIAG	286	CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH W MCC
05	M	0522	125	CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH W/O COMPLEX DIAG	287	CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH W/O MCC
05	M	0523	126	ACUTE & SUBACUTE ENDOCARDITIS	288	ACUTE & SUBACUTE ENDOCARDITIS W MCC
05	M	0523	126	ACUTE & SUBACUTE ENDOCARDITIS	289	ACUTE & SUBACUTE ENDOCARDITIS W CC
05	M	0523	126	ACUTE & SUBACUTE ENDOCARDITIS	290	ACUTE & SUBACUTE ENDOCARDITIS W/O CC/MCC
05	M	0524	127	HEART FAILURE & SHOCK	291	HEART FAILURE & SHOCK W MCC
05	M	0524	127	HEART FAILURE & SHOCK	292	HEART FAILURE & SHOCK W CC
05	M	0524	127	HEART FAILURE & SHOCK	293	HEART FAILURE & SHOCK W/O CC/MCC
05	M	0525	128	DEEP VEIN THROMBOPHLEBITIS	294	DEEP VEIN THROMBOPHLEBITIS W CC/MCC
05	M	0525	128	DEEP VEIN THROMBOPHLEBITIS	295	DEEP VEIN THROMBOPHLEBITIS W/O CC/MCC
05	M	0526	129	CARDIAC ARREST, UNEXPLAINED	296	CARDIAC ARREST, UNEXPLAINED W MCC
05	M	0526	129	CARDIAC ARREST, UNEXPLAINED	297	CARDIAC ARREST, UNEXPLAINED W CC
05	M	0526	129	CARDIAC ARREST, UNEXPLAINED	298	CARDIAC ARREST, UNEXPLAINED W/O CC/MCC
05	M	0527	130	PERIPHERAL VASCULAR DISORDERS W CC	299	PERIPHERAL VASCULAR DISORDERS W MCC
05	M	0527	131	PERIPHERAL VASCULAR DISORDERS W/O CC	300	PERIPHERAL VASCULAR DISORDERS W CC
05	M	0527	131	PERIPHERAL VASCULAR DISORDERS W/O CC	301	PERIPHERAL VASCULAR DISORDERS W/O CC/MCC
05	M	0528	132	ATHEROSCLEROSIS W CC	302	ATHEROSCLEROSIS W MCC
05	M	0528	133	ATHEROSCLEROSIS W/O CC	303	ATHEROSCLEROSIS W/O MCC
05	M	0529	134	HYPERTENSION	304	HYPERTENSION W MCC
05	M	0529	134	HYPERTENSION	305	HYPERTENSION W/O MCC
05	M	0530	135	CARDIAC CONGENITAL & VALVULAR DISORDERS AGE >17 W CC	306	CARDIAC CONGENITAL & VALVULAR DISORDERS W MCC
05	M	0530	136	CARDIAC CONGENITAL & VALVULAR DISORDERS AGE >17 W/O CC	307	CARDIAC CONGENITAL & VALVULAR DISORDERS W/O MCC
05	M	0530	137	CARDIAC CONGENITAL & VALVULAR DISORDERS AGE 0-17	307	CARDIAC CONGENITAL & VALVULAR DISORDERS W/O MCC



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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
05	M	0531	138	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W CC	308	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W MCC
05	M	0531	139	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W/O CC	309	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W CC
05	M	0531	139	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W/O CC	310	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W/O CC/MCC
05	M	0532	140	ANGINA PECTORIS	311	ANGINA PECTORIS
05	M	0533	141	SYNCOPE & COLLAPSE W CC	312	SYNCOPE & COLLAPSE
05	M	0533	142	SYNCOPE & COLLAPSE W/O CC	312	SYNCOPE & COLLAPSE
05	M	0534	143	CHEST PAIN	313	CHEST PAIN
05	M	0535	144	OTHER CIRCULATORY SYSTEM DIAGNOSES W CC	314	OTHER CIRCULATORY SYSTEM DIAGNOSES W MCC
05	M	0535	145	OTHER CIRCULATORY SYSTEM DIAGNOSES W/O CC	315	OTHER CIRCULATORY SYSTEM DIAGNOSES W CC
05	M	0535	145	OTHER CIRCULATORY SYSTEM DIAGNOSES W/O CC	316	OTHER CIRCULATORY SYSTEM DIAGNOSES W/O CC/MCC
05	S	0599	112	PERCUTANEOUS CARDIOVASCULAR PROCEDURES (NO LONGER VALID)		
05	S	0599	514	CARDIAC DEFIB IMPLANT W CARDIAC CATH (NO LONGER VALID)		
06	S	0601	155	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE >17 W/O CC	326	STOMACH, ESOPHAGEAL & DUODENAL PROC W MCC
06	S	0601	156	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE 0-17	327	STOMACH, ESOPHAGEAL & DUODENAL PROC W CC
06	S	0601	567	STOMACH, ESOPHAGEAL & DUODENAL PROC AGE > 17 W CC W MAJOR GI DX	328	STOMACH, ESOPHAGEAL & DUODENAL PROC W/O CC/MCC
06	S	0601	568	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES PROC AGE > 17 W CC W/O MAJOR GI DX	328	STOMACH, ESOPHAGEAL & DUODENAL PROC W/O CC/MCC
06	S	0601	154	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE >17 W CC (NO LONGER VALID)		
06	S	0602	149	MAJOR SMALL & LARGE BOWEL PROCEDURES W/O CC	329	MAJOR SMALL & LARGE BOWEL PROCEDURES W MCC
06	S	0602	569	MAJOR SMALL & LARGE BOWEL PROCEDURES W CC W MAJOR GI DX	330	MAJOR SMALL & LARGE BOWEL PROCEDURES W CC
06	S	0602	570	MAJOR SMALL & LARGE BOWEL PROCEDURES W CC W/O MAJOR GI DX	331	MAJOR SMALL & LARGE BOWEL PROCEDURES W/O CC/MCC

**AHRQ Quality Indicators™**  
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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
06	S	0602	148	MAJOR SMALL & LARGE BOWEL PROCEDURES W CC (NO LONGER VALID)		
06	S	0603	146	RECTAL RESECTION W CC	332	RECTAL RESECTION W MCC
06	S	0603	147	RECTAL RESECTION W/O CC	333	RECTAL RESECTION W CC
06	S	0603	147	RECTAL RESECTION W/O CC	334	RECTAL RESECTION W/O CC/MCC
06	S	0604	150	PERITONEAL ADHESIOLYSIS W CC	335	PERITONEAL ADHESIOLYSIS W MCC
06	S	0604	151	PERITONEAL ADHESIOLYSIS W/O CC	336	PERITONEAL ADHESIOLYSIS W CC
06	S	0604	151	PERITONEAL ADHESIOLYSIS W/O CC	337	PERITONEAL ADHESIOLYSIS W/O CC/MCC
06	S	0605	164	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W CC	338	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W MCC
06	S	0605	165	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W/O CC	339	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W CC
06	S	0605	165	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W/O CC	340	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W/O CC/MCC
06	S	0606	166	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W CC	341	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W MCC
06	S	0606	167	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/O CC	342	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W CC
06	S	0606	167	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/O CC	343	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/O CC/MCC
06	S	0607	152	MINOR SMALL & LARGE BOWEL PROCEDURES W CC	344	MINOR SMALL & LARGE BOWEL PROCEDURES W MCC
06	S	0607	153	MINOR SMALL & LARGE BOWEL PROCEDURES W/O CC	345	MINOR SMALL & LARGE BOWEL PROCEDURES W CC
06	S	0607	153	MINOR SMALL & LARGE BOWEL PROCEDURES W/O CC	346	MINOR SMALL & LARGE BOWEL PROCEDURES W/O CC/MCC
06	S	0608	157	ANAL & STOMAL PROCEDURES W CC	347	ANAL & STOMAL PROCEDURES W MCC
06	S	0608	158	ANAL & STOMAL PROCEDURES W/O CC	348	ANAL & STOMAL PROCEDURES W CC
06	S	0608	158	ANAL & STOMAL PROCEDURES W/O CC	349	ANAL & STOMAL PROCEDURES W/O CC/MCC
06	S	0609	161	INGUINAL & FEMORAL HERNIA PROCEDURES AGE >17 W CC	350	INGUINAL & FEMORAL HERNIA PROCEDURES W MCC
06	S	0609	162	INGUINAL & FEMORAL HERNIA PROCEDURES AGE >17 W/O CC	351	INGUINAL & FEMORAL HERNIA PROCEDURES W CC
06	S	0609	163	HERNIA PROCEDURES AGE 0-17	352	INGUINAL & FEMORAL HERNIA PROCEDURES W/O CC/MCC
06	S	0610	159	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL AGE >17 W CC	353	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL W MCC

**AHRQ Quality Indicators™**  
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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
06	S	0610	160	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL AGE >17 W/O CC	354	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL W CC
06	S	0610	160	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL AGE >17 W/O CC	355	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL W/O CC/MCC
06	S	0611	170	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W CC	356	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W MCC
06	S	0611	171	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W/O CC	357	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W CC
06	S	0611	171	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W/O CC	358	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W/O CC/MCC
06	M	0612	571	MAJOR ESOPHAGEAL DISORDERS	368	MAJOR ESOPHAGEAL DISORDERS W MCC
06	M	0612	571	MAJOR ESOPHAGEAL DISORDERS	369	MAJOR ESOPHAGEAL DISORDERS W CC
06	M	0612	571	MAJOR ESOPHAGEAL DISORDERS	370	MAJOR ESOPHAGEAL DISORDERS W/O CC/MCC
06	M	0613	572	MAJOR GASTROINTESTINAL DISORDERS AND PERITONEAL INFECTIONS	371	MAJOR GASTROINTESTINAL DISORDERS & PERITONEAL INFECTIONS W MCC
06	M	0613	572	MAJOR GASTROINTESTINAL DISORDERS AND PERITONEAL INFECTIONS	372	MAJOR GASTROINTESTINAL DISORDERS & PERITONEAL INFECTIONS W CC
06	M	0613	572	MAJOR GASTROINTESTINAL DISORDERS AND PERITONEAL INFECTIONS	373	MAJOR GASTROINTESTINAL DISORDERS & PERITONEAL INFECTIONS W/O CC/MCC
06	M	0614	172	DIGESTIVE MALIGNANCY W CC	374	DIGESTIVE MALIGNANCY W MCC
06	M	0614	173	DIGESTIVE MALIGNANCY W/O CC	375	DIGESTIVE MALIGNANCY W CC
06	M	0614	173	DIGESTIVE MALIGNANCY W/O CC	376	DIGESTIVE MALIGNANCY W/O CC/MCC
06	M	0615	174	G.I. HEMORRHAGE W CC	377	G.I. HEMORRHAGE W MCC
06	M	0615	175	G.I. HEMORRHAGE W/O CC	378	G.I. HEMORRHAGE W CC
06	M	0615	175	G.I. HEMORRHAGE W/O CC	379	G.I. HEMORRHAGE W/O CC/MCC
06	M	0616	176	COMPLICATED PEPTIC ULCER	380	COMPLICATED PEPTIC ULCER W MCC
06	M	0616	176	COMPLICATED PEPTIC ULCER	381	COMPLICATED PEPTIC ULCER W CC
06	M	0616	176	COMPLICATED PEPTIC ULCER	382	COMPLICATED PEPTIC ULCER W/O CC/MCC
06	M	0617	177	UNCOMPLICATED PEPTIC ULCER W CC	383	UNCOMPLICATED PEPTIC ULCER W MCC
06	M	0617	178	UNCOMPLICATED PEPTIC ULCER W/O CC	384	UNCOMPLICATED PEPTIC ULCER W/O MCC
06	M	0618	179	INFLAMMATORY BOWEL DISEASE	385	INFLAMMATORY BOWEL DISEASE W MCC
06	M	0618	179	INFLAMMATORY BOWEL DISEASE	386	INFLAMMATORY BOWEL DISEASE W CC
06	M	0618	179	INFLAMMATORY BOWEL DISEASE	387	INFLAMMATORY BOWEL DISEASE W/O CC/MCC
06	M	0619	180	G.I. OBSTRUCTION W CC	388	G.I. OBSTRUCTION W MCC
06	M	0619	181	G.I. OBSTRUCTION W/O CC	389	G.I. OBSTRUCTION W CC

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
06	M	0619	181	G.I. OBSTRUCTION W/O CC	390	G.I. OBSTRUCTION W/O CC/MCC
06	M	0620	182	ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS AGE >17 W CC	391	ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS W MCC
06	M	0620	183	ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS AGE >17 W/O CC	392	ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS W/O MCC
06	M	0620	184	ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS AGE 0-17	392	ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS W/O MCC
06	M	0621	188	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE >17 W CC	393	OTHER DIGESTIVE SYSTEM DIAGNOSES W MCC
06	M	0621	189	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE >17 W/O CC	394	OTHER DIGESTIVE SYSTEM DIAGNOSES W CC
06	M	0621	190	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE 0-17	395	OTHER DIGESTIVE SYSTEM DIAGNOSES W/O CC/MCC
07	S	0701	191	PANCREAS, LIVER & SHUNT PROCEDURES W CC	405	PANCREAS, LIVER & SHUNT PROCEDURES W MCC
07	S	0701	192	PANCREAS, LIVER & SHUNT PROCEDURES W/O CC	406	PANCREAS, LIVER & SHUNT PROCEDURES W CC
07	S	0701	192	PANCREAS, LIVER & SHUNT PROCEDURES W/O CC	407	PANCREAS, LIVER & SHUNT PROCEDURES W/O CC/MCC
07	S	0702	193	BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W CC	408	BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W MCC
07	S	0702	194	BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W/O CC	409	BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W CC
07	S	0702	194	BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W/O CC	410	BILIARY TRACT PROC EXCEPT ONLY CHOLECYST W OR W/O C.D.E. W/O CC/MCC
07	S	0703	195	CHOLECYSTECTOMY W C.D.E. W CC	411	CHOLECYSTECTOMY W C.D.E. W MCC
07	S	0703	196	CHOLECYSTECTOMY W C.D.E. W/O CC	412	CHOLECYSTECTOMY W C.D.E. W CC
07	S	0703	196	CHOLECYSTECTOMY W C.D.E. W/O CC	413	CHOLECYSTECTOMY W C.D.E. W/O CC/MCC
07	S	0704	197	CHOLECYSTECTOMY EXCEPT BY LAPAROSCOPE W/O C.D.E. W CC	414	CHOLECYSTECTOMY EXCEPT BY LAPAROSCOPE W/O C.D.E. W MCC
07	S	0704	198	CHOLECYSTECTOMY EXCEPT BY LAPAROSCOPE W/O C.D.E. W/O CC	415	CHOLECYSTECTOMY EXCEPT BY LAPAROSCOPE W/O C.D.E. W CC
07	S	0704	198	CHOLECYSTECTOMY EXCEPT BY LAPAROSCOPE W/O C.D.E. W/O CC	416	CHOLECYSTECTOMY EXCEPT BY LAPAROSCOPE W/O C.D.E. W/O CC/MCC
07	S	0705	493	LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W CC	417	LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W MCC
07	S	0705	494	LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W/O CC	418	LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W CC

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
07	S	0705	494	LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W/O CC	419	LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W/O CC/MCC
07	S	0706	199	HEPATOBIILIARY DIAGNOSTIC PROCEDURE FOR MALIGNANCY	420	HEPATOBIILIARY DIAGNOSTIC PROCEDURES W MCC
07	S	0706	200	HEPATOBIILIARY DIAGNOSTIC PROCEDURE FOR NON-MALIGNANCY	421	HEPATOBIILIARY DIAGNOSTIC PROCEDURES W CC
07	S	0706	200	HEPATOBIILIARY DIAGNOSTIC PROCEDURE FOR NON-MALIGNANCY	422	HEPATOBIILIARY DIAGNOSTIC PROCEDURES W/O CC/MCC
07	S	0707	201	OTHER HEPATOBIILIARY OR PANCREAS O.R. PROCEDURES	423	OTHER HEPATOBIILIARY OR PANCREAS O.R. PROCEDURES W MCC
07	S	0707	201	OTHER HEPATOBIILIARY OR PANCREAS O.R. PROCEDURES	424	OTHER HEPATOBIILIARY OR PANCREAS O.R. PROCEDURES W CC
07	S	0707	201	OTHER HEPATOBIILIARY OR PANCREAS O.R. PROCEDURES	425	OTHER HEPATOBIILIARY OR PANCREAS O.R. PROCEDURES W/O CC/MCC
07	M	0708	202	CIRRHOSIS & ALCOHOLIC HEPATITIS	432	CIRRHOSIS & ALCOHOLIC HEPATITIS W MCC
07	M	0708	202	CIRRHOSIS & ALCOHOLIC HEPATITIS	433	CIRRHOSIS & ALCOHOLIC HEPATITIS W CC
07	M	0708	202	CIRRHOSIS & ALCOHOLIC HEPATITIS	434	CIRRHOSIS & ALCOHOLIC HEPATITIS W/O CC/MCC
07	M	0709	203	MALIGNANCY OF HEPATOBIILIARY SYSTEM OR PANCREAS	435	MALIGNANCY OF HEPATOBIILIARY SYSTEM OR PANCREAS W MCC
07	M	0709	203	MALIGNANCY OF HEPATOBIILIARY SYSTEM OR PANCREAS	436	MALIGNANCY OF HEPATOBIILIARY SYSTEM OR PANCREAS W CC
07	M	0709	203	MALIGNANCY OF HEPATOBIILIARY SYSTEM OR PANCREAS	437	MALIGNANCY OF HEPATOBIILIARY SYSTEM OR PANCREAS W/O CC/MCC
07	M	0710	204	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	438	DISORDERS OF PANCREAS EXCEPT MALIGNANCY W MCC
07	M	0710	204	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	439	DISORDERS OF PANCREAS EXCEPT MALIGNANCY W CC
07	M	0710	204	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	440	DISORDERS OF PANCREAS EXCEPT MALIGNANCY W/O CC/MCC
07	M	0711	205	DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W CC	441	DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W MCC
07	M	0711	206	DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W/O CC	442	DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W CC
07	M	0711	206	DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W/O CC	443	DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W/O CC/MCC
07	M	0712	207	DISORDERS OF THE BILIARY TRACT W CC	444	DISORDERS OF THE BILIARY TRACT W MCC
07	M	0712	208	DISORDERS OF THE BILIARY TRACT W/O CC	445	DISORDERS OF THE BILIARY TRACT W CC
07	M	0712	208	DISORDERS OF THE BILIARY TRACT W/O CC	446	DISORDERS OF THE BILIARY TRACT W/O CC/MCC

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
08	S	0801	496	COMBINED ANTERIOR/POSTERIOR SPINAL FUSION	453	COMBINED ANTERIOR/POSTERIOR SPINAL FUSION W MCC
08	S	0801	496	COMBINED ANTERIOR/POSTERIOR SPINAL FUSION	454	COMBINED ANTERIOR/POSTERIOR SPINAL FUSION W CC
08	S	0801	496	COMBINED ANTERIOR/POSTERIOR SPINAL FUSION	455	COMBINED ANTERIOR/POSTERIOR SPINAL FUSION W/O CC/MCC
08	S	0802	546	SPINAL FUSION EXC CERV WITH CURVATURE OF THE SPINE OR MALIG	456	SPINAL FUS EXC CERV W SPINAL CURV/MALIG/INFEC OR 9+ FUS W MCC
08	S	0802	546	SPINAL FUSION EXC CERV WITH CURVATURE OF THE SPINE OR MALIG	457	SPINAL FUS EXC CERV W SPINAL CURV/MALIG/INFEC OR 9+ FUS W CC
08	S	0802	546	SPINAL FUSION EXC CERV WITH CURVATURE OF THE SPINE OR MALIG	458	SPINAL FUS EXC CERV W SPINAL CURV/MALIG/INFEC OR 9+ FUS W/O CC/MCC
08	S	0803	497	SPINAL FUSION EXCEPT CERVICAL W CC	459	SPINAL FUSION EXCEPT CERVICAL W MCC
08	S	0803	498	SPINAL FUSION EXCEPT CERVICAL W/O CC	460	SPINAL FUSION EXCEPT CERVICAL W/O MCC
08	S	0804	471	BILATERAL OR MULTIPLE MAJOR JOINT PROCS OF LOWER EXTREMITY	461	BILATERAL OR MULTIPLE MAJOR JOINT PROCS OF LOWER EXTREMITY W MCC
08	S	0804	471	BILATERAL OR MULTIPLE MAJOR JOINT PROCS OF LOWER EXTREMITY	462	BILATERAL OR MULTIPLE MAJOR JOINT PROCS OF LOWER EXTREMITY W/O MCC
08	S	0805	217	WND DEBRID & SKN GRFT EXCEPT HAND, FOR MUSCSKELET & CONN TISS DIS	463	WND DEBRID & SKN GRFT EXC HAND, FOR MUSCULO-CONN TISS DIS W MCC
08	S	0805	217	WND DEBRID & SKN GRFT EXCEPT HAND, FOR MUSCSKELET & CONN TISS DIS	464	WND DEBRID & SKN GRFT EXC HAND, FOR MUSCULO-CONN TISS DIS W CC
08	S	0805	217	WND DEBRID & SKN GRFT EXCEPT HAND, FOR MUSCSKELET & CONN TISS DIS	465	WND DEBRID & SKN GRFT EXC HAND, FOR MUSCULO-CONN TISS DIS W/O CC/MCC
08	S	0806	545	REVISION OF HIP OR KNEE REPLACEMENT	466	REVISION OF HIP OR KNEE REPLACEMENT W MCC
08	S	0806	545	REVISION OF HIP OR KNEE REPLACEMENT	467	REVISION OF HIP OR KNEE REPLACEMENT W CC
08	S	0806	545	REVISION OF HIP OR KNEE REPLACEMENT	468	REVISION OF HIP OR KNEE REPLACEMENT W/O CC/MCC
08	S	0807	544	MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY	469	MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY W MCC
08	S	0807	544	MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY	470	MAJOR JOINT REPLACEMENT OR REATTACHMENT OF LOWER EXTREMITY W/O MCC
08	S	0808	519	CERVICAL SPINAL FUSION W CC	471	CERVICAL SPINAL FUSION W MCC
08	S	0808	520	CERVICAL SPINAL FUSION W/O CC	472	CERVICAL SPINAL FUSION W CC
08	S	0808	520	CERVICAL SPINAL FUSION W/O CC	473	CERVICAL SPINAL FUSION W/O CC/MCC
08	S	0809	213	AMPUTATION FOR MUSCULOSKELETAL SYSTEM & CONN TISSUE DISORDERS	474	AMPUTATION FOR MUSCULOSKELETAL SYS & CONN TISSUE DIS W MCC

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
08	S	0809	213	AMPUTATION FOR MUSCULOSKELETAL SYSTEM & CONN TISSUE DISORDERS	475	AMPUTATION FOR MUSCULOSKELETAL SYS & CONN TISSUE DIS W CC
08	S	0809	213	AMPUTATION FOR MUSCULOSKELETAL SYSTEM & CONN TISSUE DISORDERS	476	AMPUTATION FOR MUSCULOSKELETAL SYS & CONN TISSUE DIS W/O CC/MCC
08	S	0810	216	BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE	477	BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W MCC
08	S	0810	216	BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE	478	BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W CC
08	S	0810	216	BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE	479	BIOPSIES OF MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W/O CC/MCC
08	S	0811	210	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE >17 W CC	480	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT W MCC
08	S	0811	211	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE >17 W/O CC	481	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT W CC
08	S	0811	212	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT AGE 0-17	482	HIP & FEMUR PROCEDURES EXCEPT MAJOR JOINT W/O CC/MCC
08	S	0812	491	MAJOR JOINT & LIMB REATTACHMENT PROCEDURES OF UPPER EXTREMITY	483	MAJOR JOINT & LIMB REATTACHMENT PROC OF UPPER EXTREMITY W CC/MCC
08	S	0812	491	MAJOR JOINT & LIMB REATTACHMENT PROCEDURES OF UPPER EXTREMITY	484	MAJOR JOINT & LIMB REATTACHMENT PROC OF UPPER EXTREMITY W/O CC/MCC
08	S	0813	501	KNEE PROCEDURES W PDX OF INFECTION W CC	485	KNEE PROCEDURES W PDX OF INFECTION W MCC
08	S	0813	502	KNEE PROCEDURES W PDX OF INFECTION W/O CC	486	KNEE PROCEDURES W PDX OF INFECTION W CC
08	S	0813	502	KNEE PROCEDURES W PDX OF INFECTION W/O CC	487	KNEE PROCEDURES W PDX OF INFECTION W/O CC/MCC
08	S	0814	503	KNEE PROCEDURES W/O PDX OF INFECTION	488	KNEE PROCEDURES W/O PDX OF INFECTION W CC/MCC
08	S	0814	503	KNEE PROCEDURES W/O PDX OF INFECTION	489	KNEE PROCEDURES W/O PDX OF INFECTION W/O CC/MCC
08	S	0815	499	BACK & NECK PROCEDURES EXCEPT SPINAL FUSION W CC	490	BACK & NECK PROC EXC SPINAL FUSION W CC/MCC OR DISC DEVICE/NEUROSTIM
08	S	0815	500	BACK & NECK PROCEDURES EXCEPT SPINAL FUSION W/O CC	491	BACK & NECK PROC EXC SPINAL FUSION W/O CC/MCC
08	S	0816	218	LOWER EXTREM & HUMER PROC EXCEPT HIP,FOOT,FEMUR AGE >17 W CC	492	LOWER EXTREM & HUMER PROC EXCEPT HIP,FOOT,FEMUR W MCC
08	S	0816	219	LOWER EXTREM & HUMER PROC EXCEPT HIP,FOOT,FEMUR AGE >17 W/O CC	493	LOWER EXTREM & HUMER PROC EXCEPT HIP,FOOT,FEMUR W CC

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
08	S	0816	220	LOWER EXTREM & HUMER PROC EXCEPT HIP,FOOT,FEMUR AGE 0-17	494	LOWER EXTREM & HUMER PROC EXCEPT HIP,FOOT,FEMUR W/O CC/MCC
08	S	0817	537	LOCAL EXCIS & REMOV OF INT FIX DEV EXCEPT HIP & FEMUR W CC	495	LOCAL EXCISION & REMOVAL INT FIX DEVICES EXC HIP & FEMUR W MCC
08	S	0817	538	LOCAL EXCIS & REMOV OF INT FIX DEV EXCEPT HIP & FEMUR W/O CC	496	LOCAL EXCISION & REMOVAL INT FIX DEVICES EXC HIP & FEMUR W CC
08	S	0817	538	LOCAL EXCIS & REMOV OF INT FIX DEV EXCEPT HIP & FEMUR W/O CC	497	LOCAL EXCISION & REMOVAL INT FIX DEVICES EXC HIP & FEMUR W/O CC/MCC
08	S	0818	230	LOCAL EXCISION & REMOVAL OF INT FIX DEVICES OF HIP & FEMUR	498	LOCAL EXCISION & REMOVAL INT FIX DEVICES OF HIP & FEMUR W CC/MCC
08	S	0818	230	LOCAL EXCISION & REMOVAL OF INT FIX DEVICES OF HIP & FEMUR	499	LOCAL EXCISION & REMOVAL INT FIX DEVICES OF HIP & FEMUR W/O CC/MCC
08	S	0819	226	SOFT TISSUE PROCEDURES W CC	500	SOFT TISSUE PROCEDURES W MCC
08	S	0819	227	SOFT TISSUE PROCEDURES W/O CC	501	SOFT TISSUE PROCEDURES W CC
08	S	0819	227	SOFT TISSUE PROCEDURES W/O CC	502	SOFT TISSUE PROCEDURES W/O CC/MCC
08	S	0820	225	FOOT PROCEDURES	503	FOOT PROCEDURES W MCC
08	S	0820	225	FOOT PROCEDURES	504	FOOT PROCEDURES W CC
08	S	0820	225	FOOT PROCEDURES	505	FOOT PROCEDURES W/O CC/MCC
08	S	0821	228	MAJOR THUMB OR JOINT PROC,OR OTH HAND OR WRIST PROC W CC	506	MAJOR THUMB OR JOINT PROCEDURES
08	S	0822	223	MAJOR SHOULDER/ELBOW PROC, OR OTHER UPPER EXTREMITY PROC W CC	507	MAJOR SHOULDER OR ELBOW JOINT PROCEDURES W CC/MCC
08	S	0822	223	MAJOR SHOULDER/ELBOW PROC, OR OTHER UPPER EXTREMITY PROC W CC	508	MAJOR SHOULDER OR ELBOW JOINT PROCEDURES W/O CC/MCC
08	S	0823	232	ARTHROSCOPY	509	ARTHROSCOPY
08	S	0824	224	SHOULDER,ELBOW OR FOREARM PROC,EXC MAJOR JOINT PROC, W/O CC	510	SHOULDER,ELBOW OR FOREARM PROC,EXC MAJOR JOINT PROC W MCC
08	S	0824	224	SHOULDER,ELBOW OR FOREARM PROC,EXC MAJOR JOINT PROC, W/O CC	511	SHOULDER,ELBOW OR FOREARM PROC,EXC MAJOR JOINT PROC W CC
08	S	0824	224	SHOULDER,ELBOW OR FOREARM PROC,EXC MAJOR JOINT PROC, W/O CC	512	SHOULDER,ELBOW OR FOREARM PROC,EXC MAJOR JOINT PROC W/O CC/MCC
08	S	0825	229	HAND OR WRIST PROC, EXCEPT MAJOR JOINT PROC, W/O CC	513	HAND OR WRIST PROC, EXCEPT MAJOR THUMB OR JOINT PROC W CC/MCC
08	S	0825	229	HAND OR WRIST PROC, EXCEPT MAJOR JOINT PROC, W/O CC	514	HAND OR WRIST PROC, EXCEPT MAJOR THUMB OR JOINT PROC W/O CC/MCC
08	S	0826	233	OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W CC	515	OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W MCC



**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
08	S	0826	234	OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W/O CC	516	OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W CC
08	S	0826	234	OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W/O CC	517	OTHER MUSCULOSKELET SYS & CONN TISS O.R. PROC W/O CC/MCC
08	M	0827	235	FRACTURES OF FEMUR	533	FRACTURES OF FEMUR W MCC
08	M	0827	235	FRACTURES OF FEMUR	534	FRACTURES OF FEMUR W/O MCC
08	M	0828	236	FRACTURES OF HIP & PELVIS	535	FRACTURES OF HIP & PELVIS W MCC
08	M	0828	236	FRACTURES OF HIP & PELVIS	536	FRACTURES OF HIP & PELVIS W/O MCC
08	M	0829	237	SPRAINS, STRAINS, & DISLOCATIONS OF HIP, PELVIS & THIGH	537	SPRAINS, STRAINS, & DISLOCATIONS OF HIP, PELVIS & THIGH W CC/MCC
08	M	0829	237	SPRAINS, STRAINS, & DISLOCATIONS OF HIP, PELVIS & THIGH	538	SPRAINS, STRAINS, & DISLOCATIONS OF HIP, PELVIS & THIGH W/O CC/MCC
08	M	0830	238	OSTEOMYELITIS	539	OSTEOMYELITIS W MCC
08	M	0830	238	OSTEOMYELITIS	540	OSTEOMYELITIS W CC
08	M	0830	238	OSTEOMYELITIS	541	OSTEOMYELITIS W/O CC/MCC
08	M	0831	239	PATHOLOGICAL FRACTURES & MUSCULOSKELETAL & CONN TISS MALIGNANCY	542	PATHOLOGICAL FRACTURES & MUSCULOSKELET & CONN TISS MALIG W MCC
08	M	0831	239	PATHOLOGICAL FRACTURES & MUSCULOSKELETAL & CONN TISS MALIGNANCY	543	PATHOLOGICAL FRACTURES & MUSCULOSKELET & CONN TISS MALIG W CC
08	M	0831	239	PATHOLOGICAL FRACTURES & MUSCULOSKELETAL & CONN TISS MALIGNANCY	544	PATHOLOGICAL FRACTURES & MUSCULOSKELET & CONN TISS MALIG W/O CC/MCC
08	M	0832	240	CONNECTIVE TISSUE DISORDERS W CC	545	CONNECTIVE TISSUE DISORDERS W MCC
08	M	0832	241	CONNECTIVE TISSUE DISORDERS W/O CC	546	CONNECTIVE TISSUE DISORDERS W CC
08	M	0832	241	CONNECTIVE TISSUE DISORDERS W/O CC	547	CONNECTIVE TISSUE DISORDERS W/O CC/MCC
08	M	0833	242	SEPTIC ARTHRITIS	548	SEPTIC ARTHRITIS W MCC
08	M	0833	242	SEPTIC ARTHRITIS	549	SEPTIC ARTHRITIS W CC
08	M	0833	242	SEPTIC ARTHRITIS	550	SEPTIC ARTHRITIS W/O CC/MCC
08	M	0834	243	MEDICAL BACK PROBLEMS	551	MEDICAL BACK PROBLEMS W MCC
08	M	0834	243	MEDICAL BACK PROBLEMS	552	MEDICAL BACK PROBLEMS W/O MCC
08	M	0835	244	BONE DISEASES & SPECIFIC ARTHROPATHIES W CC	553	BONE DISEASES & ARTHROPATHIES W MCC
08	M	0835	245	BONE DISEASES & SPECIFIC ARTHROPATHIES W/O CC	554	BONE DISEASES & ARTHROPATHIES W/O MCC

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
08	M	0835	246	NON-SPECIFIC ARTHROPATHIES	554	BONE DISEASES & ARTHROPATHIES W/O MCC
08	M	0836	247	SIGNS & SYMPTOMS OF MUSCULOSKELETAL SYSTEM & CONN TISSUE	555	SIGNS & SYMPTOMS OF MUSCULOSKELETAL SYSTEM & CONN TISSUE W MCC
08	M	0836	247	SIGNS & SYMPTOMS OF MUSCULOSKELETAL SYSTEM & CONN TISSUE	556	SIGNS & SYMPTOMS OF MUSCULOSKELETAL SYSTEM & CONN TISSUE W/O MCC
08	M	0837	248	TENDONITIS, MYOSITIS & BURSTITIS	557	TENDONITIS, MYOSITIS & BURSTITIS W MCC
08	M	0837	248	TENDONITIS, MYOSITIS & BURSTITIS	558	TENDONITIS, MYOSITIS & BURSTITIS W/O MCC
08	M	0838	249	AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE	559	AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W MCC
08	M	0838	249	AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE	560	AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W CC
08	M	0838	249	AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE	561	AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE W/O CC/MCC
08	M	0839	250	FX, SPRN, STRN & DISL OF FOREARM, HAND, FOOT AGE >17 W CC	562	FX, SPRN, STRN & DISL EXCEPT FEMUR, HIP, PELVIS & THIGH W MCC
08	M	0839	251	FX, SPRN, STRN & DISL OF FOREARM, HAND, FOOT AGE >17 W/O CC	563	FX, SPRN, STRN & DISL EXCEPT FEMUR, HIP, PELVIS & THIGH W/O MCC
08	M	0839	252	FX, SPRN, STRN & DISL OF FOREARM, HAND, FOOT AGE 0-17	563	FX, SPRN, STRN & DISL EXCEPT FEMUR, HIP, PELVIS & THIGH W/O MCC
08	M	0839	253	FX, SPRN, STRN & DISL OF UPARM,LOWLEG EX FOOT AGE >17 W CC	563	FX, SPRN, STRN & DISL EXCEPT FEMUR, HIP, PELVIS & THIGH W/O MCC
08	M	0839	254	FX, SPRN, STRN & DISL OF UPARM,LOWLEG EX FOOT AGE >17 W/O CC	563	FX, SPRN, STRN & DISL EXCEPT FEMUR, HIP, PELVIS & THIGH W/O MCC
08	M	0839	255	FX, SPRN, STRN & DISL OF UPARM,LOWLEG EX FOOT AGE 0-17	563	FX, SPRN, STRN & DISL EXCEPT FEMUR, HIP, PELVIS & THIGH W/O MCC
08	M	0840	256	OTHER MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE DIAGNOSES	564	OTHER MUSCULOSKELETAL SYS & CONNECTIVE TISSUE DIAGNOSES W MCC
08	M	0840	256	OTHER MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE DIAGNOSES	565	OTHER MUSCULOSKELETAL SYS & CONNECTIVE TISSUE DIAGNOSES W CC
08	M	0840	256	OTHER MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE DIAGNOSES	566	OTHER MUSCULOSKELETAL SYS & CONNECTIVE TISSUE DIAGNOSES W/O CC/MCC
08	S	0899	209	MAJOR JOINT & LIMB REATTACHMENT PROCEDURES OF LOWER EXTR		
08	S	0899	214	BACK & NECK PROC W CC (NO LONGER VALID)		
08	S	0899	215	BACK & NECK PROC WO CC (NO LONGER VALID)		
08	S	0899	221	KNEE PROC W CC (NO LONGER VALID)		

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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
08	S	0899	222	KNEE PROC WO CC (NO LONGER VALID)		
08	S	0899	231	LOCAL EXCISION & REMOVAL OF INT FIX DEVICES EXCEPT HIP &		
09	S	0901	263	SKIN GRAFT &/OR DEBRID FOR SKN ULCER OR CELLULITIS W CC	573	SKIN GRAFT &/OR DEBRID FOR SKN ULCER OR CELLULITIS W MCC
09	S	0901	264	SKIN GRAFT &/OR DEBRID FOR SKN ULCER OR CELLULITIS W/O CC	574	SKIN GRAFT &/OR DEBRID FOR SKN ULCER OR CELLULITIS W CC
09	S	0901	264	SKIN GRAFT &/OR DEBRID FOR SKN ULCER OR CELLULITIS W/O CC	575	SKIN GRAFT &/OR DEBRID FOR SKN ULCER OR CELLULITIS W/O CC/MCC
09	S	0902	265	SKIN GRAFT &/OR DEBRID EXCEPT FOR SKIN ULCER OR CELLULITIS W CC	576	SKIN GRAFT &/OR DEBRID EXC FOR SKIN ULCER OR CELLULITIS W MCC
09	S	0902	266	SKIN GRAFT &/OR DEBRID EXCEPT FOR SKIN ULCER OR CELLULITIS W/O CC	577	SKIN GRAFT &/OR DEBRID EXC FOR SKIN ULCER OR CELLULITIS W CC
09	S	0902	266	SKIN GRAFT &/OR DEBRID EXCEPT FOR SKIN ULCER OR CELLULITIS W/O CC	578	SKIN GRAFT &/OR DEBRID EXC FOR SKIN ULCER OR CELLULITIS W/O CC/MCC
09	S	0903	267	PERIANAL & PILONIDAL PROCEDURES	579	OTHER SKIN, SUBCUT TISS & BREAST PROC W MCC
09	S	0903	268	SKIN, SUBCUTANEOUS TISSUE & BREAST PLASTIC PROCEDURES	580	OTHER SKIN, SUBCUT TISS & BREAST PROC W CC
09	S	0903	269	OTHER SKIN, SUBCUT TISS & BREAST PROC W CC	581	OTHER SKIN, SUBCUT TISS & BREAST PROC W/O CC/MCC
09	S	0903	270	OTHER SKIN, SUBCUT TISS & BREAST PROC W/O CC	581	OTHER SKIN, SUBCUT TISS & BREAST PROC W/O CC/MCC
09	S	0904	257	TOTAL MASTECTOMY FOR MALIGNANCY W CC	582	MASTECTOMY FOR MALIGNANCY W CC/MCC
09	S	0904	258	TOTAL MASTECTOMY FOR MALIGNANCY W/O CC	583	MASTECTOMY FOR MALIGNANCY W/O CC/MCC
09	S	0905	259	SUBTOTAL MASTECTOMY FOR MALIGNANCY W CC	584	BREAST BIOPSY, LOCAL EXCISION & OTHER BREAST PROCEDURES W CC/MCC
09	S	0905	260	SUBTOTAL MASTECTOMY FOR MALIGNANCY W/O CC	585	BREAST BIOPSY, LOCAL EXCISION & OTHER BREAST PROCEDURES W/O CC/MCC
09	S	0905	261	BREAST PROC FOR NON-MALIGNANCY EXCEPT BIOPSY & LOCAL EXCISION	585	BREAST BIOPSY, LOCAL EXCISION & OTHER BREAST PROCEDURES W/O CC/MCC
09	S	0905	262	BREAST BIOPSY & LOCAL EXCISION FOR NON-MALIGNANCY	585	BREAST BIOPSY, LOCAL EXCISION & OTHER BREAST PROCEDURES W/O CC/MCC
09	M	0906	271	SKIN ULCERS	592	SKIN ULCERS W MCC
09	M	0906	271	SKIN ULCERS	593	SKIN ULCERS W CC
09	M	0906	271	SKIN ULCERS	594	SKIN ULCERS W/O CC/MCC
09	M	0907	272	MAJOR SKIN DISORDERS W CC	595	MAJOR SKIN DISORDERS W MCC

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
09	M	0907	273	MAJOR SKIN DISORDERS W/O CC	596	MAJOR SKIN DISORDERS W/O MCC
09	M	0908	274	MALIGNANT BREAST DISORDERS W CC	597	MALIGNANT BREAST DISORDERS W MCC
09	M	0908	275	MALIGNANT BREAST DISORDERS W/O CC	598	MALIGNANT BREAST DISORDERS W CC
09	M	0908	275	MALIGNANT BREAST DISORDERS W/O CC	599	MALIGNANT BREAST DISORDERS W/O CC/MCC
09	M	0909	276	NON-MALIGANT BREAST DISORDERS	600	NON-MALIGNANT BREAST DISORDERS W CC/MCC
09	M	0909	276	NON-MALIGANT BREAST DISORDERS	601	NON-MALIGNANT BREAST DISORDERS W/O CC/MCC
09	M	0910	277	CELLULITIS AGE >17 W CC	602	CELLULITIS W MCC
09	M	0910	278	CELLULITIS AGE >17 W/O CC	603	CELLULITIS W/O MCC
09	M	0910	279	CELLULITIS AGE 0-17	603	CELLULITIS W/O MCC
09	M	0911	280	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE >17 W CC	604	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST W MCC
09	M	0911	281	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE >17 W/O CC	605	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST W/O MCC
09	M	0911	282	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST AGE 0-17	605	TRAUMA TO THE SKIN, SUBCUT TISS & BREAST W/O MCC
09	M	0912	283	MINOR SKIN DISORDERS W CC	606	MINOR SKIN DISORDERS W MCC
09	M	0912	284	MINOR SKIN DISORDERS W/O CC	607	MINOR SKIN DISORDERS W/O MCC
10	S	1001	286	ADRENAL & PITUITARY PROCEDURES	614	ADRENAL & PITUITARY PROCEDURES W CC/MCC
10	S	1001	286	ADRENAL & PITUITARY PROCEDURES	615	ADRENAL & PITUITARY PROCEDURES W/O CC/MCC
10	S	1002	285	AMPUTAT OF LOWER LIMB FOR ENDOCRINE,NUTRIT,& METABOL DISORDERS	616	AMPUTAT OF LOWER LIMB FOR ENDOCRINE,NUTRIT,& METABOL DIS W MCC
10	S	1002	285	AMPUTAT OF LOWER LIMB FOR ENDOCRINE,NUTRIT,& METABOL DISORDERS	617	AMPUTAT OF LOWER LIMB FOR ENDOCRINE,NUTRIT,& METABOL DIS W CC
10	S	1002	285	AMPUTAT OF LOWER LIMB FOR ENDOCRINE,NUTRIT,& METABOL DISORDERS	618	AMPUTAT OF LOWER LIMB FOR ENDOCRINE,NUTRIT,& METABOL DIS W/O CC/MCC
10	S	1003	288	O.R. PROCEDURES FOR OBESITY	619	O.R. PROCEDURES FOR OBESITY W MCC
10	S	1003	288	O.R. PROCEDURES FOR OBESITY	620	O.R. PROCEDURES FOR OBESITY W CC
10	S	1003	288	O.R. PROCEDURES FOR OBESITY	621	O.R. PROCEDURES FOR OBESITY W/O CC/MCC
10	S	1004	287	SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DISORDERS	622	SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DIS W MCC
10	S	1004	287	SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DISORDERS	623	SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DIS W CC

**AHRQ Quality Indicators™**  
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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
10	S	1004	287	SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DISORDERS	624	SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DIS W/O CC/MCC
10	S	1005	289	PARATHYROID PROCEDURES	625	THYROID, PARATHYROID & THYROGLOSSAL PROCEDURES W MCC
10	S	1005	290	THYROID PROCEDURES	626	THYROID, PARATHYROID & THYROGLOSSAL PROCEDURES W CC
10	S	1005	291	THYROGLOSSAL PROCEDURES	627	THYROID, PARATHYROID & THYROGLOSSAL PROCEDURES W/O CC/MCC
10	S	1006	292	OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W CC	628	OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W MCC
10	S	1006	293	OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W/O CC	629	OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W CC
10	S	1006	293	OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W/O CC	630	OTHER ENDOCRINE, NUTRIT & METAB O.R. PROC W/O CC/MCC
10	M	1007	294	DIABETES AGE >35	637	DIABETES W MCC
10	M	1007	295	DIABETES AGE 0-35	638	DIABETES W CC
10	M	1007	295	DIABETES AGE 0-35	639	DIABETES W/O CC/MCC
10	M	1008	296	NUTRITIONAL & MISC METABOLIC DISORDERS AGE >17 W CC	640	NUTRITIONAL & MISC METABOLIC DISORDERS W MCC
10	M	1008	297	NUTRITIONAL & MISC METABOLIC DISORDERS AGE >17 W/O CC	641	NUTRITIONAL & MISC METABOLIC DISORDERS W/O MCC
10	M	1008	298	NUTRITIONAL & MISC METABOLIC DISORDERS AGE 0-17	641	NUTRITIONAL & MISC METABOLIC DISORDERS W/O MCC
10	M	1009	299	INBORN ERRORS OF METABOLISM	642	INBORN ERRORS OF METABOLISM
10	M	1010	300	ENDOCRINE DISORDERS W CC	643	ENDOCRINE DISORDERS W MCC
10	M	1010	301	ENDOCRINE DISORDERS W/O CC	644	ENDOCRINE DISORDERS W CC
10	M	1010	301	ENDOCRINE DISORDERS W/O CC	645	ENDOCRINE DISORDERS W/O CC/MCC
11	S	1101	302	KIDNEY TRANSPLANT	652	KIDNEY TRANSPLANT
11	S	1102	573	MAJOR BLADDER PROCEDURES	653	MAJOR BLADDER PROCEDURES W MCC
11	S	1102	573	MAJOR BLADDER PROCEDURES	654	MAJOR BLADDER PROCEDURES W CC
11	S	1102	573	MAJOR BLADDER PROCEDURES	655	MAJOR BLADDER PROCEDURES W/O CC/MCC
11	S	1103	303	KIDNEY AND URETER PROCEDURES FOR NEOPLASM	656	KIDNEY & URETER PROCEDURES FOR NEOPLASM W MCC
11	S	1103	303	KIDNEY AND URETER PROCEDURES FOR NEOPLASM	657	KIDNEY & URETER PROCEDURES FOR NEOPLASM W CC
11	S	1103	303	KIDNEY AND URETER PROCEDURES FOR NEOPLASM	658	KIDNEY & URETER PROCEDURES FOR NEOPLASM W/O CC/MCC

**AHRQ Quality Indicators™**  
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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
11	S	1104	304	KIDNEY AND URETER PROCEDURES FOR NON-NEOPLASM WITHOUT CC	659	KIDNEY & URETER PROCEDURES FOR NON-NEOPLASM W MCC
11	S	1104	305	KIDNEY AND URETER PROCEDURES FOR NON-NEOPLASM WITHOUT CC	660	KIDNEY & URETER PROCEDURES FOR NON-NEOPLASM W CC
11	S	1104	305	KIDNEY AND URETER PROCEDURES FOR NON-NEOPLASM WITHOUT CC	661	KIDNEY & URETER PROCEDURES FOR NON-NEOPLASM W/O CC/MCC
11	S	1105	308	MINOR BLADDER PROCEDURES W CC	662	MINOR BLADDER PROCEDURES W MCC
11	S	1105	309	MINOR BLADDER PROCEDURES W/O CC	663	MINOR BLADDER PROCEDURES W CC
11	S	1105	309	MINOR BLADDER PROCEDURES W/O CC	664	MINOR BLADDER PROCEDURES W/O CC/MCC
11	S	1106	306	PROSTATECTOMY W CC	665	PROSTATECTOMY W MCC
11	S	1106	307	PROSTATECTOMY W/O CC	666	PROSTATECTOMY W CC
11	S	1106	307	PROSTATECTOMY W/O CC	667	PROSTATECTOMY W/O CC/MCC
11	S	1107	310	TRANSURETHRAL PROCEDURES W CC	668	TRANSURETHRAL PROCEDURES W MCC
11	S	1107	311	TRANSURETHRAL PROCEDURES W/O CC	669	TRANSURETHRAL PROCEDURES W CC
11	S	1107	311	TRANSURETHRAL PROCEDURES W/O CC	670	TRANSURETHRAL PROCEDURES W/O CC/MCC
11	S	1108	312	URETHRAL PROCEDURES, AGE >17 W CC	671	URETHRAL PROCEDURES W CC/MCC
11	S	1108	313	URETHRAL PROCEDURES, AGE >17 W/O CC	672	URETHRAL PROCEDURES W/O CC/MCC
11	S	1108	314	URETHRAL PROCEDURES, AGE 0-17	672	URETHRAL PROCEDURES W/O CC/MCC
11	S	1109	315	OTHER KIDNEY & URINARY TRACT O.R. PROCEDURES	673	OTHER KIDNEY & URINARY TRACT PROCEDURES W MCC
11	S	1109	315	OTHER KIDNEY & URINARY TRACT O.R. PROCEDURES	674	OTHER KIDNEY & URINARY TRACT PROCEDURES W CC
11	S	1109	315	OTHER KIDNEY & URINARY TRACT O.R. PROCEDURES	675	OTHER KIDNEY & URINARY TRACT PROCEDURES W/O CC/MCC
11	M	1110	316	RENAL FAILURE	682	RENAL FAILURE W MCC
11	M	1110	316	RENAL FAILURE	683	RENAL FAILURE W CC
11	M	1110	316	RENAL FAILURE	684	RENAL FAILURE W/O CC/MCC
11	M	1111	317	ADMIT FOR RENAL DIALYSIS	685	ADMIT FOR RENAL DIALYSIS
11	M	1112	318	KIDNEY & URINARY TRACT NEOPLASMS W CC	686	KIDNEY & URINARY TRACT NEOPLASMS W MCC
11	M	1112	319	KIDNEY & URINARY TRACT NEOPLASMS W/O CC	687	KIDNEY & URINARY TRACT NEOPLASMS W CC
11	M	1112	319	KIDNEY & URINARY TRACT NEOPLASMS W/O CC	688	KIDNEY & URINARY TRACT NEOPLASMS W/O CC/MCC
11	M	1113	320	KIDNEY & URINARY TRACT INFECTIONS AGE >17 W CC	689	KIDNEY & URINARY TRACT INFECTIONS W MCC

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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
11	M	1113	321	KIDNEY & URINARY TRACT INFECTIONS AGE >17 W/O CC	690	KIDNEY & URINARY TRACT INFECTIONS W/O MCC
11	M	1113	322	KIDNEY & URINARY TRACT INFECTIONS AGE 0-17	690	KIDNEY & URINARY TRACT INFECTIONS W/O MCC
11	M	1114	323	URINARY STONES W CC, &/OR ESW LITHOTRIPSY	691	URINARY STONES W ESW LITHOTRIPSY W CC/MCC
11	M	1114	323	URINARY STONES W CC, &/OR ESW LITHOTRIPSY	692	URINARY STONES W ESW LITHOTRIPSY W/O CC/MCC
11	M	1115	324	URINARY STONES W/O CC	693	URINARY STONES W/O ESW LITHOTRIPSY W MCC
11	M	1115	324	URINARY STONES W/O CC	694	URINARY STONES W/O ESW LITHOTRIPSY W/O MCC
11	M	1116	325	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE >17 W CC	695	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS W MCC
11	M	1116	326	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE >17 W/O CC	696	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS W/O MCC
11	M	1116	327	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS AGE 0-17	696	KIDNEY & URINARY TRACT SIGNS & SYMPTOMS W/O MCC
11	M	1117	328	URETHRAL STRICTURE AGE >17 W CC	697	URETHRAL STRICTURE
11	M	1117	329	URETHRAL STRICTURE AGE >17 W/O CC	697	URETHRAL STRICTURE
11	M	1117	330	URETHRAL STRICTURE AGE 0-17	697	URETHRAL STRICTURE
11	M	1118	331	OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE >17 W CC	698	OTHER KIDNEY & URINARY TRACT DIAGNOSES W MCC
11	M	1118	332	OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE >17 W/O CC	699	OTHER KIDNEY & URINARY TRACT DIAGNOSES W CC
11	M	1118	333	OTHER KIDNEY & URINARY TRACT DIAGNOSES AGE 0-17	700	OTHER KIDNEY & URINARY TRACT DIAGNOSES W/O CC/MCC
12	S	1201	334	MAJOR MALE PELVIC PROCEDURES W CC	707	MAJOR MALE PELVIC PROCEDURES W CC/MCC
12	S	1201	335	MAJOR MALE PELVIC PROCEDURES W/O CC	708	MAJOR MALE PELVIC PROCEDURES W/O CC/MCC
12	S	1202	341	PENIS PROCEDURES	709	PENIS PROCEDURES W CC/MCC
12	S	1202	341	PENIS PROCEDURES	710	PENIS PROCEDURES W/O CC/MCC
12	S	1203	338	TESTES PROCEDURES, FOR MALIGNANCY	711	TESTES PROCEDURES W CC/MCC
12	S	1203	339	TESTES PROCEDURES, NON-MALIGNANCY AGE >17	712	TESTES PROCEDURES W/O CC/MCC
12	S	1203	340	TESTES PROCEDURES, NON-MALIGNANCY AGE 0-17	712	TESTES PROCEDURES W/O CC/MCC
12	S	1204	336	TRANSURETHRAL PROSTATECTOMY W CC	713	TRANSURETHRAL PROSTATECTOMY W CC/MCC
12	S	1204	337	TRANSURETHRAL PROSTATECTOMY W/O CC	714	TRANSURETHRAL PROSTATECTOMY W/O CC/MCC

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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
12	S	1205	344	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROCEDURES FOR MALIGNANCY	715	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC FOR MALIGNANCY W CC/MCC
12	S	1205	344	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROCEDURES FOR MALIGNANCY	716	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC FOR MALIGNANCY W/O CC/MCC
12	S	1206	345	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC EXCEPT FOR MALIGNANCY	717	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC EXC MALIGNANCY W CC/MCC
12	S	1206	345	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC EXCEPT FOR MALIGNANCY	718	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC EXC MALIGNANCY W/O CC/MCC
12	S	1206	342	CIRCUMCISION AGE >17	718	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC EXC MALIGNANCY W/O CC/MCC
12	S	1206	343	CIRCUMCISION AGE 0-17	718	OTHER MALE REPRODUCTIVE SYSTEM O.R. PROC EXC MALIGNANCY W/O CC/MCC
12	M	1207	346	MALIGNANCY, MALE REPRODUCTIVE SYSTEM, W CC	722	MALIGNANCY, MALE REPRODUCTIVE SYSTEM W MCC
12	M	1207	347	MALIGNANCY, MALE REPRODUCTIVE SYSTEM, W/O CC	723	MALIGNANCY, MALE REPRODUCTIVE SYSTEM W CC
12	M	1207	347	MALIGNANCY, MALE REPRODUCTIVE SYSTEM, W/O CC	724	MALIGNANCY, MALE REPRODUCTIVE SYSTEM W/O CC/MCC
12	M	1208	348	BENIGN PROSTATIC HYPERTROPHY W CC	725	BENIGN PROSTATIC HYPERTROPHY W MCC
12	M	1208	349	BENIGN PROSTATIC HYPERTROPHY W/O CC	726	BENIGN PROSTATIC HYPERTROPHY W/O MCC
12	M	1209	350	INFLAMMATION OF THE MALE REPRODUCTIVE SYSTEM	727	INFLAMMATION OF THE MALE REPRODUCTIVE SYSTEM W MCC
12	M	1209	350	INFLAMMATION OF THE MALE REPRODUCTIVE SYSTEM	728	INFLAMMATION OF THE MALE REPRODUCTIVE SYSTEM W/O MCC
12	M	1210	351	STERILIZATION, MALE	729	OTHER MALE REPRODUCTIVE SYSTEM DIAGNOSES W CC/MCC
12	M	1210	352	OTHER MALE REPRODUCTIVE SYSTEM DIAGNOSES	730	OTHER MALE REPRODUCTIVE SYSTEM DIAGNOSES W/O CC/MCC
13	S	1301	353	PELVIC EVISCERATION, RADICAL HYSTERECTOMY & RADICAL VULVECTOMY	734	PELVIC EVISCERATION, RAD HYSTERECTOMY & RAD VULVECTOMY W CC/MCC
13	S	1301	353	PELVIC EVISCERATION, RADICAL HYSTERECTOMY & RADICAL VULVECTOMY	735	PELVIC EVISCERATION, RAD HYSTERECTOMY & RAD VULVECTOMY W/O CC/MCC
13	S	1302	357	UTERINE & ADNEXA PROC FOR OVARIAN OR ADNEXAL MALIGNANCY	736	UTERINE & ADNEXA PROC FOR OVARIAN OR ADNEXAL MALIGNANCY W MCC
13	S	1302	357	UTERINE & ADNEXA PROC FOR OVARIAN OR ADNEXAL MALIGNANCY	737	UTERINE & ADNEXA PROC FOR OVARIAN OR ADNEXAL MALIGNANCY W CC
13	S	1302	357	UTERINE & ADNEXA PROC FOR OVARIAN OR ADNEXAL MALIGNANCY	738	UTERINE & ADNEXA PROC FOR OVARIAN OR ADNEXAL MALIGNANCY W/O CC/MCC



**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
13	S	1303	354	UTERINE,ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W CC	739	UTERINE,ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W MCC
13	S	1303	355	UTERINE,ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W/O CC	740	UTERINE,ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W CC
13	S	1303	355	UTERINE,ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W/O CC	741	UTERINE,ADNEXA PROC FOR NON-OVARIAN/ADNEXAL MALIG W/O CC/MCC
13	S	1304	358	UTERINE & ADNEXA PROC FOR NON-MALIGNANCY W CC	742	UTERINE & ADNEXA PROC FOR NON-MALIGNANCY W CC/MCC
13	S	1304	359	UTERINE & ADNEXA PROC FOR NON-MALIGNANCY W/O CC	743	UTERINE & ADNEXA PROC FOR NON-MALIGNANCY W/O CC/MCC
13	S	1305	361	LAPAROSCOPY & INCISIONAL TUBAL INTERRUPTION	744	D&C, CONIZATION, LAPAROSCOPY & TUBAL INTERRUPTION W CC/MCC
13	S	1305	362	ENDOSCOPIC TUBAL INTERRUPTION	745	D&C, CONIZATION, LAPAROSCOPY & TUBAL INTERRUPTION W/O CC/MCC
13	S	1305	363	D&C, CONIZATION & RADIO-IMPLANT, FOR MALIGNANCY	745	D&C, CONIZATION, LAPAROSCOPY & TUBAL INTERRUPTION W/O CC/MCC
13	S	1305	364	D&C, CONIZATION EXCEPT FOR MALIGNANCY	745	D&C, CONIZATION, LAPAROSCOPY & TUBAL INTERRUPTION W/O CC/MCC
13	S	1306	360	VAGINA, CERVIX & VULVA PROCEDURES	746	VAGINA, CERVIX & VULVA PROCEDURES W CC/MCC
13	S	1306	360	VAGINA, CERVIX & VULVA PROCEDURES	747	VAGINA, CERVIX & VULVA PROCEDURES W/O CC/MCC
13	S	1307	356	FEMALE REPRODUCTIVE SYSTEM RECONSTRUCTIVE PROCEDURES	748	FEMALE REPRODUCTIVE SYSTEM RECONSTRUCTIVE PROCEDURES
13	S	1308	365	OTHER FEMALE REPRODUCTIVE SYSTEM O.R. PROCEDURES	749	OTHER FEMALE REPRODUCTIVE SYSTEM O.R. PROCEDURES W CC/MCC
13	S	1308	365	OTHER FEMALE REPRODUCTIVE SYSTEM O.R. PROCEDURES	750	OTHER FEMALE REPRODUCTIVE SYSTEM O.R. PROCEDURES W/O CC/MCC
13	M	1309	366	MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W CC	754	MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W MCC
13	M	1309	367	MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W/O CC	755	MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W CC
13	M	1309	367	MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W/O CC	756	MALIGNANCY, FEMALE REPRODUCTIVE SYSTEM W/O CC/MCC
13	M	1310	368	INFECTIONS, FEMALE REPRODUCTIVE SYSTEM	757	INFECTIONS, FEMALE REPRODUCTIVE SYSTEM W MCC
13	M	1310	368	INFECTIONS, FEMALE REPRODUCTIVE SYSTEM	758	INFECTIONS, FEMALE REPRODUCTIVE SYSTEM W CC

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
13	M	1310	368	INFECTIONS, FEMALE REPRODUCTIVE SYSTEM	759	INFECTIONS, FEMALE REPRODUCTIVE SYSTEM W/O CC/MCC
13	M	1311	369	MENSTRUAL & OTHER FEMALE REPRODUCTIVE SYSTEM DISORDERS	760	MENSTRUAL & OTHER FEMALE REPRODUCTIVE SYSTEM DISORDERS W CC/MCC
13	M	1311	369	MENSTRUAL & OTHER FEMALE REPRODUCTIVE SYSTEM DISORDERS	761	MENSTRUAL & OTHER FEMALE REPRODUCTIVE SYSTEM DISORDERS W/O CC/MCC
14	S	1401	370	CESAREAN SECTION W CC	765	CESAREAN SECTION W CC/MCC
14	S	1401	371	CESAREAN SECTION W/O CC	766	CESAREAN SECTION W/O CC/MCC
14	S	1402	374	VAGINAL DELIVERY W STERILIZATION &/OR D&C	767	VAGINAL DELIVERY W STERILIZATION &/OR D&C
14	S	1402	375	VAGINAL DELIVERY W O.R. PROC EXCEPT STERIL &/OR D&C	768	VAGINAL DELIVERY W O.R. PROC EXCEPT STERIL &/OR D&C
14	S	1403	377	POSTPARTUM & POST ABORTION DIAGNOSES W O.R. PROCEDURE	769	POSTPARTUM & POST ABORTION DIAGNOSES W O.R. PROCEDURE
14	S	1404	381	ABORTION W D&C, ASPIRATION CURETTAGE OR HYSTEROTOMY	770	ABORTION W D&C, ASPIRATION CURETTAGE OR HYSTEROTOMY
14	M	1405	372	VAGINAL DELIVERY W COMPLICATING DIAGNOSES	774	VAGINAL DELIVERY W COMPLICATING DIAGNOSES
14	M	1405	373	VAGINAL DELIVERY W/O COMPLICATING DIAGNOSES	775	VAGINAL DELIVERY W/O COMPLICATING DIAGNOSES
14	M	1406	376	POSTPARTUM & POST ABORTION DIAGNOSES W/O O.R. PROCEDURE	776	POSTPARTUM & POST ABORTION DIAGNOSES W/O O.R. PROCEDURE
14	M	1407	378	ECTOPIC PREGNANCY	777	ECTOPIC PREGNANCY
14	M	1408	379	THREATENED ABORTION	778	THREATENED ABORTION
14	M	1409	380	ABORTION W/O D&C	779	ABORTION W/O D&C
14	M	1410	382	FALSE LABOR	780	FALSE LABOR
14	M	1411	383	OTHER ANTEPARTUM DIAGNOSES W MEDICAL COMPLICATIONS	781	OTHER ANTEPARTUM DIAGNOSES W MEDICAL COMPLICATIONS
14	M	1412	384	OTHER ANTEPARTUM DIAGNOSES W/O MEDICAL COMPLICATIONS	782	OTHER ANTEPARTUM DIAGNOSES W/O MEDICAL COMPLICATIONS
15	M	1501	385	NEONATES, DIED OR TRANSFERRED TO ANOTHER ACUTE CARE FACILITY	789	NEONATES, DIED OR TRANSFERRED TO ANOTHER ACUTE CARE FACILITY
15	M	1502	386	EXTREME IMMATURETY OR RESPIRATORY DISTRESS SYNDROME, NEONATE	790	EXTREME IMMATURETY OR RESPIRATORY DISTRESS SYNDROME, NEONATE
15	M	1503	387	PREMATURITY W MAJOR PROBLEMS	791	PREMATURITY W MAJOR PROBLEMS
15	M	1504	388	PREMATURITY W/O MAJOR PROBLEMS	792	PREMATURITY W/O MAJOR PROBLEMS
15	M	1505	389	FULL TERM NEONATE W MAJOR PROBLEMS	793	FULL TERM NEONATE W MAJOR PROBLEMS

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
15	M	1506	390	NEONATE W OTHER SIGNIFICANT PROBLEMS	794	NEONATE W OTHER SIGNIFICANT PROBLEMS
15	M	1507	391	NORMAL NEWBORN	795	NORMAL NEWBORN
16	S	1601	392	SPLENECTOMY AGE >17	799	SPLENECTOMY W MCC
16	S	1601	393	SPLENECTOMY AGE 0-17	800	SPLENECTOMY W CC
16	S	1601	393	SPLENECTOMY AGE 0-17	801	SPLENECTOMY W/O CC/MCC
16	S	1602	394	OTHER O.R. PROCEDURES OF THE BLOOD AND BLOOD FORMING ORGANS	802	OTHER O.R. PROC OF THE BLOOD & BLOOD FORMING ORGANS W MCC
16	S	1602	394	OTHER O.R. PROCEDURES OF THE BLOOD AND BLOOD FORMING ORGANS	803	OTHER O.R. PROC OF THE BLOOD & BLOOD FORMING ORGANS W CC
16	S	1602	394	OTHER O.R. PROCEDURES OF THE BLOOD AND BLOOD FORMING ORGANS	804	OTHER O.R. PROC OF THE BLOOD & BLOOD FORMING ORGANS W/O CC/MCC
16	M	1603	574	MAJOR HEMATOLOGIC/IMMUNOLOGIC DIAG EXC SICKLE CELL CRISIS & COAGUL	808	MAJOR HEMATOL/IMMUN DIAG EXC SICKLE CELL CRISIS & COAGUL W MCC
16	M	1603	574	MAJOR HEMATOLOGIC/IMMUNOLOGIC DIAG EXC SICKLE CELL CRISIS & COAGUL	809	MAJOR HEMATOL/IMMUN DIAG EXC SICKLE CELL CRISIS & COAGUL W CC
16	M	1603	574	MAJOR HEMATOLOGIC/IMMUNOLOGIC DIAG EXC SICKLE CELL CRISIS & COAGUL	810	MAJOR HEMATOL/IMMUN DIAG EXC SICKLE CELL CRISIS & COAGUL W/O CC/MCC
16	M	1604	395	RED BLOOD CELL DISORDERS AGE >17	811	RED BLOOD CELL DISORDERS W MCC
16	M	1604	396	RED BLOOD CELL DISORDERS AGE 0-17	812	RED BLOOD CELL DISORDERS W/O MCC
16	M	1605	397	COAGULATION DISORDERS	813	COAGULATION DISORDERS
16	M	1606	398	RETICULOENDOTHELIAL & IMMUNITY DISORDERS W CC	814	RETICULOENDOTHELIAL & IMMUNITY DISORDERS W MCC
16	M	1606	399	RETICULOENDOTHELIAL & IMMUNITY DISORDERS W/O CC	815	RETICULOENDOTHELIAL & IMMUNITY DISORDERS W CC
16	M	1606	399	RETICULOENDOTHELIAL & IMMUNITY DISORDERS W/O CC	816	RETICULOENDOTHELIAL & IMMUNITY DISORDERS W/O CC/MCC
17	S	1707	539	LYMPHOMA & LEUKEMIA W MAJOR OR PROCEDURE W CC	820	LYMPHOMA & LEUKEMIA W MAJOR O.R. PROCEDURE W MCC
17	S	1707	540	LYMPHOMA & LEUKEMIA W MAJOR OR PROCEDURE W/O CC	821	LYMPHOMA & LEUKEMIA W MAJOR O.R. PROCEDURE W CC
17	S	1707	540	LYMPHOMA & LEUKEMIA W MAJOR OR PROCEDURE W/O CC	822	LYMPHOMA & LEUKEMIA W MAJOR O.R. PROCEDURE W/O CC/MCC
17	S	1708	401	LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROC W CC	823	LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROC W MCC
17	S	1708	402	LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROC W/O CC	824	LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROC W CC

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**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
17	S	1708	402	LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROC W/O CC	825	LYMPHOMA & NON-ACUTE LEUKEMIA W OTHER O.R. PROC W/O CC/MCC
17	S	1709	406	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R.PROC W CC	826	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R. PROC W MCC
17	S	1709	407	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R.PROC W/O CC	827	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R. PROC W CC
17	S	1709	407	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R.PROC W/O CC	828	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W MAJ O.R. PROC W/O CC/MCC
17	S	1710	408	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W OTHER O.R.PROC	829	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W OTHER O.R. PROC W CC/MCC
17	S	1710	408	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W OTHER O.R.PROC	830	MYELOPROLIF DISORD OR POORLY DIFF NEOPL W OTHER O.R. PROC W/O CC/MCC
17	M	1711	405	ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE AGE 0-17	834	ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE W MCC
17	M	1711	473	ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE AGE >17	835	ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE W CC
17	M	1711	473	ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE AGE >17	836	ACUTE LEUKEMIA W/O MAJOR O.R. PROCEDURE W/O CC/MCC
17	M	1712	492	CHEMOTHERAPY W ACUTE LEUKEMIA OR W USE OF HI DOSE CHEMOAGENT	837	CHEMO W ACUTE LEUKEMIA AS SDX OR W HIGH DOSE CHEMO AGENT W MCC
17	M	1712	492	CHEMOTHERAPY W ACUTE LEUKEMIA OR W USE OF HI DOSE CHEMOAGENT	838	CHEMO W ACUTE LEUKEMIA AS SDX W CC OR HIGH DOSE CHEMO AGENT
17	M	1712	492	CHEMOTHERAPY W ACUTE LEUKEMIA OR W USE OF HI DOSE CHEMOAGENT	839	CHEMO W ACUTE LEUKEMIA AS SDX W/O CC/MCC
17	M	1713	403	LYMPHOMA & NON-ACUTE LEUKEMIA W CC	840	LYMPHOMA & NON-ACUTE LEUKEMIA W MCC
17	M	1713	404	LYMPHOMA & NON-ACUTE LEUKEMIA W/O CC	841	LYMPHOMA & NON-ACUTE LEUKEMIA W CC
17	M	1713	404	LYMPHOMA & NON-ACUTE LEUKEMIA W/O CC	842	LYMPHOMA & NON-ACUTE LEUKEMIA W/O CC/MCC
17	M	1714	411	HISTORY OF MALIGNANCY W/O ENDOSCOPY	843	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W MCC
17	M	1714	412	HISTORY OF MALIGNANCY W ENDOSCOPY	844	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W CC
17	M	1714	413	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W CC	845	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W/O CC/MCC
17	M	1714	414	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W/O CC	845	OTHER MYELOPROLIF DIS OR POORLY DIFF NEOPL DIAG W/O CC/MCC
17	M	1715	410	CHEMOTHERAPY W/O ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS	846	CHEMOTHERAPY W/O ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS W MCC

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
17	M	1715	410	CHEMOTHERAPY W/O ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS	847	CHEMOTHERAPY W/O ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS W CC
17	M	1715	410	CHEMOTHERAPY W/O ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS	848	CHEMOTHERAPY W/O ACUTE LEUKEMIA AS SECONDARY DIAGNOSIS W/O CC/MCC
17	M	1716	409	RADIOTHERAPY	849	RADIOTHERAPY
17	S	1799	400	LYMPHOMA & LEUKEMIA W MAJOR O.R. PROCEDURE (NO LONGER VA		
18	S	1801	578	INFECTIOUS & PARASITIC DISEASES W OR PROCEDURE	853	INFECTIOUS & PARASITIC DISEASES W O.R. PROCEDURE W MCC
18	S	1801	578	INFECTIOUS & PARASITIC DISEASES W OR PROCEDURE	854	INFECTIOUS & PARASITIC DISEASES W O.R. PROCEDURE W CC
18	S	1801	578	INFECTIOUS & PARASITIC DISEASES W OR PROCEDURE	855	INFECTIOUS & PARASITIC DISEASES W O.R. PROCEDURE W/O CC/MCC
18	S	1802	579	POSTOPERATIVE OR POST-TRAUMATIC INFECTIONS W OR PROCEDURE	856	POSTOPERATIVE OR POST-TRAUMATIC INFECTIONS W O.R. PROC W MCC
18	S	1802	579	POSTOPERATIVE OR POST-TRAUMATIC INFECTIONS W OR PROCEDURE	857	POSTOPERATIVE OR POST-TRAUMATIC INFECTIONS W O.R. PROC W CC
18	S	1802	579	POSTOPERATIVE OR POST-TRAUMATIC INFECTIONS W OR PROCEDURE	858	POSTOPERATIVE OR POST-TRAUMATIC INFECTIONS W O.R. PROC W/O CC/MCC
18	M	1803	418	POSTOPERATIVE & POST-TRAUMATIC INFECTIONS	862	POSTOPERATIVE & POST-TRAUMATIC INFECTIONS W MCC
18	M	1803	418	POSTOPERATIVE & POST-TRAUMATIC INFECTIONS	863	POSTOPERATIVE & POST-TRAUMATIC INFECTIONS W/O MCC
18	M	1804	419	FEVER OF UNKNOWN ORIGIN AGE >17 W CC	864	FEVER OF UNKNOWN ORIGIN
18	M	1804	420	FEVER OF UNKNOWN ORIGIN AGE >17 W/O CC	864	FEVER OF UNKNOWN ORIGIN
18	M	1805	421	VIRAL ILLNESS AGE >17	865	VIRAL ILLNESS W MCC
18	M	1805	422	VIRAL ILLNESS & FEVER OF UNKNOWN ORIGIN AGE 0-17	866	VIRAL ILLNESS W/O MCC
18	M	1806	423	OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES	867	OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES W MCC
18	M	1806	423	OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES	868	OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES W CC
18	M	1806	423	OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES	869	OTHER INFECTIOUS & PARASITIC DISEASES DIAGNOSES W/O CC/MCC
18	M	1807	417	SEPTICEMIA AGE 0-17	870	SEPTICEMIA W MV 96+ HOURS
18	M	1807	575	SEPTICEMIA W MV96+ HOURS AGE >17	870	SEPTICEMIA W MV 96+ HOURS
18	M	1808	576	SEPTICEMIA W/O MV96+ HOURS AGE >17	871	SEPTICEMIA W/O MV 96+ HOURS W MCC

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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
18	M	1808	576	SEPTICEMIA W/O MV96+ HOURS AGE >17	872	SEPTICEMIA W/O MV 96+ HOURS W/O MCC
18	M	1898	416	SEPTICEMIA AGE >17 (NO LONGER VALID)		
18	S	1899	415	O.R. PROCEDURE FOR INFECTIOUS & PARASITIC DISEASES (NO LONGER VALID)		
19	S	1909	424	O.R. PROCEDURE W PRINCIPAL DIAGNOSES OF MENTAL ILLNESS	876	O.R. PROCEDURE W PRINCIPAL DIAGNOSES OF MENTAL ILLNESS
19	M	1910	425	ACUTE ADJUSTMENT REACTION & PSYCHOSOCIAL DYSFUNCTION	880	ACUTE ADJUSTMENT REACTION & PSYCHOSOCIAL DYSFUNCTION
19	M	1911	426	DEPRESSIVE NEUROSES	881	DEPRESSIVE NEUROSES
19	M	1912	427	NEUROSES EXCEPT DEPRESSIVE	882	NEUROSES EXCEPT DEPRESSIVE
19	M	1913	428	DISORDERS OF PERSONALITY & IMPULSE CONTROL	883	DISORDERS OF PERSONALITY & IMPULSE CONTROL
19	M	1914	429	ORGANIC DISTURBANCES & MENTAL RETARDATION	884	ORGANIC DISTURBANCES & MENTAL RETARDATION
19	M	1915	430	PSYCHOSES	885	PSYCHOSES
19	M	1916	431	CHILDHOOD MENTAL DISORDERS	886	BEHAVIORAL & DEVELOPMENTAL DISORDERS
19	M	1917	432	OTHER MENTAL DISORDER DIAGNOSES	887	OTHER MENTAL DISORDER DIAGNOSES
20	M	2018	433	ALCOHOL/DRUG ABUSE OR DEPENDENCE, LEFT AMA	894	ALCOHOL/DRUG ABUSE OR DEPENDENCE, LEFT AMA
20	M	2019	521	ALCOHOL/DRUG ABUSE OR DEPENDENCE W CC	895	ALCOHOL/DRUG ABUSE OR DEPENDENCE W REHABILITATION THERAPY
20	M	2019	522	ALC/DRUG ABUSE OR DEPEND W REHABILITATION THERAPY W/O CC	895	ALCOHOL/DRUG ABUSE OR DEPENDENCE W REHABILITATION THERAPY
20	M	2020	523	ALC/DRUG ABUSE OR DEPEND W/O REHABILITATION THERAPY W/O CC	896	ALCOHOL/DRUG ABUSE OR DEPENDENCE W/O REHABILITATION THERAPY W MCC
20	M	2020	523	ALC/DRUG ABUSE OR DEPEND W/O REHABILITATION THERAPY W/O CC	897	ALCOHOL/DRUG ABUSE OR DEPENDENCE W/O REHABILITATION THERAPY W/O MCC
20	M	2098	434	ALC/DRUG ABUSE OR DEPEND, DETOX OR OTH SYMPT TREAT W CC		
20	M	2098	435	ALC/DRUG ABUSE OR DEPEND, DETOX OR OTH SYMPT TREAT WO CC		
20	M	2098	436	ALC/DRUG DEPENDENCE W REHABILITATION THERAPY (NO LONGER		
20	M	2098	437	ALC/DRUG DEPENDENCE, COMBINED REHAB & DETOX THERAPY (NO		
20	M	2098	438	NO LONGER VALID		
21	S	2101	440	WOUND DEBRIDEMENTS FOR INJURIES	901	WOUND DEBRIDEMENTS FOR INJURIES W MCC

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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
21	S	2101	440	WOUND DEBRIDEMENTS FOR INJURIES	902	WOUND DEBRIDEMENTS FOR INJURIES W CC
21	S	2101	440	WOUND DEBRIDEMENTS FOR INJURIES	903	WOUND DEBRIDEMENTS FOR INJURIES W/O CC/MCC
21	S	2102	439	SKIN GRAFTS FOR INJURIES	904	SKIN GRAFTS FOR INJURIES W CC/MCC
21	S	2102	439	SKIN GRAFTS FOR INJURIES	905	SKIN GRAFTS FOR INJURIES W/O CC/MCC
21	S	2103	441	HAND PROCEDURES FOR INJURIES	906	HAND PROCEDURES FOR INJURIES
21	S	2104	442	OTHER O.R. PROCEDURES FOR INJURIES W CC	907	OTHER O.R. PROCEDURES FOR INJURIES W MCC
21	S	2104	443	OTHER O.R. PROCEDURES FOR INJURIES W/O CC	908	OTHER O.R. PROCEDURES FOR INJURIES W CC
21	S	2104	443	OTHER O.R. PROCEDURES FOR INJURIES W/O CC	909	OTHER O.R. PROCEDURES FOR INJURIES W/O CC/MCC
21	M	2105	444	TRAUMATIC INJURY AGE >17 W CC	913	TRAUMATIC INJURY W MCC
21	M	2105	445	TRAUMATIC INJURY AGE >17 W/O CC	914	TRAUMATIC INJURY W/O MCC
21	M	2105	446	TRAUMATIC INJURY AGE 0-17	914	TRAUMATIC INJURY W/O MCC
21	M	2106	447	ALLERGIC REACTIONS AGE >17	915	ALLERGIC REACTIONS W MCC
21	M	2106	448	ALLERGIC REACTIONS AGE 0-17	916	ALLERGIC REACTIONS W/O MCC
21	M	2107	449	POISONING & TOXIC EFFECTS OF DRUGS AGE >17 W CC	917	POISONING & TOXIC EFFECTS OF DRUGS W MCC
21	M	2107	450	POISONING & TOXIC EFFECTS OF DRUGS AGE >17 W/O CC	918	POISONING & TOXIC EFFECTS OF DRUGS W/O MCC
21	M	2107	451	POISONING & TOXIC EFFECTS OF DRUGS AGE 0-17	918	POISONING & TOXIC EFFECTS OF DRUGS W/O MCC
21	M	2108	452	COMPLICATIONS OF TREATMENT W CC	919	COMPLICATIONS OF TREATMENT W MCC
21	M	2108	453	COMPLICATIONS OF TREATMENT W/O CC	920	COMPLICATIONS OF TREATMENT W CC
21	M	2108	453	COMPLICATIONS OF TREATMENT W/O CC	921	COMPLICATIONS OF TREATMENT W/O CC/MCC
21	M	2109	454	OTHER INJURY, POISONING & TOXIC EFFECT DIAG W CC	922	OTHER INJURY, POISONING & TOXIC EFFECT DIAG W MCC
21	M	2109	455	OTHER INJURY, POISONING & TOXIC EFFECT DIAG W/O CC	923	OTHER INJURY, POISONING & TOXIC EFFECT DIAG W/O MCC
22	S	2201	506	FULL THICKNESS BURN W SKIN GRAFT OR INHAL INJ W CC OR SIG TRAUMA	928	FULL THICKNESS BURN W SKIN GRAFT OR INHAL INJ W CC/MCC
22	S	2201	507	FULL THICKNESS BURN W SKIN GRFT OR INHAL INJ W/O CC OR SIG TRAUMA	929	FULL THICKNESS BURN W SKIN GRAFT OR INHAL INJ W/O CC/MCC
22	S	2210	504	EXTEN. BURNS OR FULL THICKNESS BURN W/MV 96+HRS W/SKIN GFT	927	EXTENSIVE BURNS OR FULL THICKNESS BURNS W MV 96+ HRS W SKIN GRAFT

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
22	M	2212	505	EXTEN. BURNS OR FULL THICKNESS BURN W/MV 96+HRS W/O SKIN GFT	933	EXTENSIVE BURNS OR FULL THICKNESS BURNS W MV 96+ HRS W/O SKIN GRAFT
22	M	2213	508	FULL THICKNESS BURN W/O SKIN GRFT OR INHAL INJ W CC OR SIG TRAUMA	934	FULL THICKNESS BURN W/O SKIN GRFT OR INHAL INJ
22	M	2213	509	FULL THICKNESS BURN W/O SKIN GRFT OR INH INJ W/O CC OR SIG TRAUMA	934	FULL THICKNESS BURN W/O SKIN GRFT OR INHAL INJ
22	M	2214	510	NON-EXTENSIVE BURNS W CC OR SIGNIFICANT TRAUMA	935	NON-EXTENSIVE BURNS
22	M	2214	511	NON-EXTENSIVE BURNS W/O CC OR SIGNIFICANT TRAUMA	935	NON-EXTENSIVE BURNS
22	M	2298	456	BURNS, TRANSFERRED TO ANOTHER ACUTE CARE FACILITY (NO LO		
22	M	2298	457	EXTENSIVE BURNS WO O.R. PROCEDURE (NO LONGER VALID)		
22	M	2298	458	NON-EXTENSIVE BURNS W SKIN GRAFT (NO LONGER VALID)		
22	M	2298	459	NON-EXTENSIVE BURNS W WOUND DEBRIDEMENT OR OTHER O.R. PR		
22	M	2298	460	NON-EXTENSIVE BURNS WO O.R. PROCEDURE (NO LONGER VALID)		
22	S	2299	472	BILATERAL OR MULTIPLE MAJOR JOINT PROCS OF LOWER EXTREMI		
23	S	2301	461	O.R. PROC W DIAGNOSES OF OTHER CONTACT W HEALTH SERVICES	939	O.R. PROC W DIAGNOSES OF OTHER CONTACT W HEALTH SERVICES W MCC
23	S	2301	461	O.R. PROC W DIAGNOSES OF OTHER CONTACT W HEALTH SERVICES	940	O.R. PROC W DIAGNOSES OF OTHER CONTACT W HEALTH SERVICES W CC
23	S	2301	461	O.R. PROC W DIAGNOSES OF OTHER CONTACT W HEALTH SERVICES	941	O.R. PROC W DIAGNOSES OF OTHER CONTACT W HEALTH SERVICES W/O CC/MCC
23	M	2302	462	REHABILITATION	945	REHABILITATION W CC/MCC
23	M	2302	462	REHABILITATION	946	REHABILITATION W/O CC/MCC
23	M	2303	463	SIGNS & SYMPTOMS W CC	947	SIGNS & SYMPTOMS W MCC
23	M	2303	464	SIGNS & SYMPTOMS W/O CC	948	SIGNS & SYMPTOMS W/O MCC
23	M	2304	465	AFTERCARE W HISTORY OF MALIGNANCY AS SECONDARY DIAGNOSIS	949	AFTERCARE W CC/MCC
23	M	2304	466	AFTERCARE W/O HISTORY OF MALIGNANCY AS SECONDARY DIAGNOSIS	950	AFTERCARE W/O CC/MCC
23	M	2305	467	OTHER FACTORS INFLUENCING HEALTH STATUS	951	OTHER FACTORS INFLUENCING HEALTH STATUS



**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
24	S	2406	484	CRANIOTOMY FOR MULTIPLE SIGNIFICANT TRAUMA	955	CRANIOTOMY FOR MULTIPLE SIGNIFICANT TRAUMA
24	S	2407	485	LIMB REATTACHMENT, HIP AND FEMUR PROC FOR MULTIPLE SIGNIFICANT TRAUMA	956	LIMB REATTACHMENT, HIP & FEMUR PROC FOR MULTIPLE SIGNIFICANT TRAUMA
24	S	2408	486	OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA	957	OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA W MCC
24	S	2408	486	OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA	958	OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA W CC
24	S	2408	486	OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA	959	OTHER O.R. PROCEDURES FOR MULTIPLE SIGNIFICANT TRAUMA W/O CC/MCC
24	M	2409	487	OTHER MULTIPLE SIGNIFICANT TRAUMA	963	OTHER MULTIPLE SIGNIFICANT TRAUMA W MCC
24	M	2409	487	OTHER MULTIPLE SIGNIFICANT TRAUMA	964	OTHER MULTIPLE SIGNIFICANT TRAUMA W CC
24	M	2409	487	OTHER MULTIPLE SIGNIFICANT TRAUMA	965	OTHER MULTIPLE SIGNIFICANT TRAUMA W/O CC/MCC
25	S	2501	488	HIV W EXTENSIVE O.R. PROCEDURE	969	HIV W EXTENSIVE O.R. PROCEDURE W MCC
25	S	2501	488	HIV W EXTENSIVE O.R. PROCEDURE	970	HIV W EXTENSIVE O.R. PROCEDURE W/O MCC
25	M	2502	489	HIV W MAJOR RELATED CONDITION	974	HIV W MAJOR RELATED CONDITION W MCC
25	M	2502	489	HIV W MAJOR RELATED CONDITION	975	HIV W MAJOR RELATED CONDITION W CC
25	M	2502	489	HIV W MAJOR RELATED CONDITION	976	HIV W MAJOR RELATED CONDITION W/O CC/MCC
25	M	2503	490	HIV W OR W/O OTHER RELATED CONDITION	977	HIV W OR W/O OTHER RELATED CONDITION
PR <sup>1</sup>	S	7701	103	HEART TRANSPLANT OR IMPLANT OF HEART ASSIST SYSTEM	001	HEART TRANSPLANT OR IMPLANT OF HEART ASSIST SYSTEM W MCC
PR	S	7701	103	HEART TRANSPLANT OR IMPLANT OF HEART ASSIST SYSTEM	002	HEART TRANSPLANT OR IMPLANT OF HEART ASSIST SYSTEM W/O MCC
PR	S	7702	480	LIVER TRANSPLANT AND/OR INTESTINAL TRANSPLANT	005	LIVER TRANSPLANT W MCC OR INTESTINAL TRANSPLANT
PR	S	7702	480	LIVER TRANSPLANT AND/OR INTESTINAL TRANSPLANT	006	LIVER TRANSPLANT W/O MCC
PR	S	7703	495	LUNG TRANSPLANT	007	LUNG TRANSPLANT
PR	S	7704	512	SIMULTANEOUS PANCREAS/KIDNEY TRANSPLANT	008	SIMULTANEOUS PANCREAS/KIDNEY TRANSPLANT
PR	S	7705	481	BONE MARROW TRANSPLANT	009	BONE MARROW TRANSPLANT
PR	S	7705	481	BONE MARROW TRANSPLANT	014	ALLOGENEIC BONE MARROW TRANSPLANT
PR	S	7705	481	BONE MARROW TRANSPLANT	015	AUTOLOGOUS BONE MARROW TRANSPLANT
PR	S	7706	513	PANCREAS TRANSPLANT	010	PANCREAS TRANSPLANT

**AHRQ Quality Indicators™**  
**Patient Safety Indicators (PSI) Parameter Estimates**

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
PR	S	7799	541	ECMO OR TRACH W MV 96+HRS OR PDX EXC FACE, MOUTH & NECK W MAJ O.R.	003	ECMO OR TRACH W MV 96+ HRS OR PDX EXC FACE, MOUTH & NECK W MAJ O.R.
PR	S	7799	542	TRACH W MV 96+HRS OR PDX EXC FACE, MOUTH & NECK W/O MAJ O.R.	004	TRACH W MV 96+ HRS OR PDX EXC FACE, MOUTH & NECK W/O MAJ O.R.
PR	S	7799	482	TRACHEOSTOMY FOR FACE,MOUTH & NECK DIAGNOSES	011	TRACHEOSTOMY FOR FACE,MOUTH & NECK DIAGNOSES W MCC
PR	S	7799	482	TRACHEOSTOMY FOR FACE,MOUTH & NECK DIAGNOSES	012	TRACHEOSTOMY FOR FACE,MOUTH & NECK DIAGNOSES W CC
PR	S	7799	482	TRACHEOSTOMY FOR FACE,MOUTH & NECK DIAGNOSES	013	TRACHEOSTOMY FOR FACE,MOUTH & NECK DIAGNOSES W/O CC/MCC
PR	S	7799	483	TRAC W MECH VENT 96+HRS OR PDX EXCEPT FACE,MOUTH & NECK		
* <sup>2</sup>	M	8898	469	PRINCIPAL DIAGNOSIS INVALID AS DISCHARGE DIAGNOSIS	998	PRINCIPAL DIAGNOSIS INVALID AS DISCHARGE DIAGNOSIS
*	M	8898	470	UNGROUPABLE	999	UNGROUPABLE
*	S	8899	468	EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	981	EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS W MCC
*	S	8899	468	EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	982	EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS W CC
*	S	8899	468	EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	983	EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS W/O CC/MCC
*	S	8899	476	PROSTATIC O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	985	PROSTATIC O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS W CC
*	S	8899	476	PROSTATIC O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	986	PROSTATIC O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS W/O CC/MCC
*	S	8899	477	NON-EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	987	NON-EXTENSIVE O.R. PROC UNRELATED TO PRINCIPAL DIAGNOSIS W MCC
*	S	8899	477	NON-EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	988	NON-EXTENSIVE O.R. PROC UNRELATED TO PRINCIPAL DIAGNOSIS W CC
*	S	8899	477	NON-EXTENSIVE O.R. PROCEDURE UNRELATED TO PRINCIPAL DIAGNOSIS	989	NON-EXTENSIVE O.R. PROC UNRELATED TO PRINCIPAL DIAGNOSIS W/O CC/MCC

<sup>1</sup> Certain procedure codes have corresponding MS-DRG codes.

<sup>2</sup> These DRG and MS-DRG codes are not assigned to an MDC.

**Table A.3. Major Diagnostic Categories (MDC)**

MDC	DESCRIPTION
1	DISEASES & DISORDERS OF THE NERVOUS SYSTEM
2	DISEASES & DISORDERS OF THE EYE
3	DISEASES & DISORDERS OF THE EAR, NOSE, MOUTH & THROAT
4	DISEASES & DISORDERS OF THE RESPIRATORY SYSTEM
5	DISEASES & DISORDERS OF THE CIRCULATORY SYSTEM
6	DISEASES & DISORDERS OF THE DIGESTIVE SYSTEM
7	DISEASES & DISORDERS OF THE HEPATOBILIARY SYSTEM & PANCREAS
8	DISEASES & DISORDERS OF THE MUSCULOSKELETAL SYSTEM & CONN TISSUE
9	DISEASES & DISORDERS OF THE SKIN, SUBCUTANEOUS TISSUE & BREAST
10	ENDOCRINE, NUTRITIONAL & METABOLIC DISEASES & DISORDERS
11	DISEASES & DISORDERS OF THE KIDNEY & URINARY TRACT
12	DISEASES & DISORDERS OF THE MALE REPRODUCTIVE SYSTEM
13	DISEASES & DISORDERS OF THE FEMALE REPRODUCTIVE SYSTEM
14	PREGNANCY, CHILDBIRTH & THE PUERPERIUM
15	NEWBORNS & OTHER NEONATES WITH CONDTN ORIG IN PERINATAL PERIOD
16	DISEASES & DISORDERS OF BLOOD, BLOOD FORMING ORGANS, IMMUNOLOG DISORD
17	MYELOPROLIFERATIVE DISEASES & DISORDERS, POORLY DIFFERENTIATED NEOPLASM
18	INFECTIOUS & PARASITIC DISEASES, SYSTEMIC OR UNSPECIFIED SITES
19	MENTAL DISEASES & DISORDERS
20	ALCOHOL/DRUG USE & ALCOHOL/DRUG INDUCED ORGANIC MENTAL DISORDERS
21	INJURIES, POISONINGS & TOXIC EFFECTS OF DRUGS
22	BURNS
23	FACTORS INFLUENCING HLTH STAT & OTHR CONTACTS WITH HLTH SERVCS
24	MULTIPLE SIGNIFICANT TRAUMA
25	HUMAN IMMUNODEFICIENCY VIRUS INFECTIONS
OTHER	REPRESENTS ALL OTHER MDCs NOT EXPLICITLY INCLUDED AS A PARAMETER IN QI RISK ADJUSTMENT MODEL

**Table A.4. Comorbidity Categories (COMORB), HCUP Comorbidity Software, Version 3.7\***

COMORBIDITY	DESCRIPTION
AIDS	Acquired immune deficiency syndrome
ALCOHOL	Alcohol abuse
ANEMDEF	Deficiency Anemias
ARTH	Rheumatoid arthritis/collagen vas
BLDLOSS	Chronic blood loss anemia
CHF	Congestive heart failure
CHRNLUNG	Chronic pulmonary disease
DEPRESS	Depression
DM	Diabetes w/o chronic complications
DMCX	Diabetes w/ chronic complications
DRUG	Drug abuse
HTN	Hypertension, uncomplicated
HTNCX	Hypertension, complicated
HYPOTHY	Hypothyroidism
LIVER	Liver disease
LYMPH	Lymphoma
METS	Metastatic cancer
NEURO	Other neurological disorders
OBESE	Obesity
PARA	Paralysis
PERIVASC	Peripheral vascular disease
PSYCH	Psychoses
PULMCIRC	Pulmonary circulation disease
RENLFAIL	Renal failure
TUMOR	Solid tumor w/out metastasis
ULCER	Peptic ulcer Disease x bleeding
VALVE	Valvular disease
WGHTLOSS	Weight loss

\*HCUP Comorbidity Software, Version 3.7 Healthcare Cost and Utilization Project (HCUP). 2013. Agency for Healthcare Research and Quality, Rockville, MD. <http://www.hcup-us.ahrq.gov/toolssoftware/comorbidity/comorbidity.jsp> Accessed May 6, 2013.

**Table A.5. Categorical Variables Definitions: Transfer, Procedure Days, Point of Origin**

CATEGORY	DESCRIPTION	DEFINITION
TRNSFER	Transfer-in	If admission type (ATYPE) not equal to '4' (newborn) and - admission source (ASOURCE) equal to '2' (Another Hospital) or - point of origin (POINTOFORIGINUB04) equal to '4' (Transfer from a Hospital), then TRNSFER=1
NOPOUB04	UB-04 Point-of-Origin Data Not Available	If admission source (ASOURCE) is not equal to missing and point of origin (POINTOFORIGINUB04) is equal to missing, then NOPOUB04=1
NOPRDAY	Procedure Days Data Not Available	If PRDAY1 and PRDAY2 and . . . PRDAYn is equal to missing, where n is the number of Procedure Codes reported in the user's data – then NOPRDAY = 1