



PATIENT SAFETY INDICATORS (PSI) PARAMETER ESTIMATES Version 5.0

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Executive Summary

This document provides statistical parameters associated with version 5.0 of Agency for Healthcare Research and Quality (AHRQ) Quality Indicators™ (QI) Inpatient Quality Indicators (IQI). The parameter estimates derived for the AHRQ QI are based on analysis of the 2012 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.¹ 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. To calculate parameter estimates we used a subset of 36 states that report information about whether a diagnosis was present on admission (POA) and information on the timing of procedures during the hospitalizations representing 82 percent of the US community hospital discharges.²

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 another facility. Descriptions of some

¹ 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** Division of Health Care Finance and Policy, **Michigan** Health & Hospital Association, **Minnesota** Hospital Association (provides data for Minnesota and **North Dakota**), **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 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, **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

² The states included in the analysis are Alaska, Arkansas, Arizona, California, Colorado, Florida, Georgia, Hawaii, Iowa, Illinois, Indiana, Kansas, Kentucky, Massachusetts, Maryland, Maine, Michigan, Minnesota, Montana, North Carolina, Nebraska, New Jersey, New Mexico, Nevada, New York, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Virginia, Vermont, Washington, Wisconsin.

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>)

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

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	-7.5687	0.1108	4664.657	<.0001
SEX	Female	1	-0.5166	0.0502	105.8548	<.0001
AGE	18 to 24	1	-1.9011	0.1728	121.0655	<.0001
AGE	25 to 29	1	-1.7175	0.1656	107.5324	<.0001
AGE	30 to 59	1	-0.804	0.1149	49.0033	<.0001
AGE	65 to 69	1	0.2905	0.1452	4.001	0.0455
AGE	70 to 74	1	0.7944	0.1334	35.4686	<.0001
AGE	75 to 79	1	1.1037	0.1278	74.5457	<.0001
AGE	80 to 84	1	1.5019	0.1226	150.1255	<.0001
AGE	85+	1	2.2864	0.114	402.0667	<.0001
MDRG	413	1	-0.048	0.1202	0.1597	0.6894
MDRG	533	1	0.3738	0.0793	22.2348	<.0001
MDRG	1915	1	-0.1671	0.0947	3.1155	0.0776
MDRG	2019	1	-0.4588	0.5023	0.8341	0.3611
MDC	19	1	0.0469	0.1811	0.0672	0.7955
TRANSFER		1	1.0153	0.0596	289.8918	<.0001
NOPRDAY		1	-0.799	0.0523	233.0949	<.0001
COMORB	CHF	1	1.0853	0.0672	261.0132	<.0001
COMORB	NEURO	1	0.492	0.0683	51.9229	<.0001
COMORB	CHRN LUNG	1	0.2315	0.0608	14.4828	0.0001
COMORB	HYPOTHY	1	-0.0954	0.0684	1.9458	0.163
COMORB	REN LFAIL	1	0.3748	0.0663	32.0023	<.0001
COMORB	OBESE	1	0.4206	0.0738	32.4737	<.0001
COMORB	ANEMDEF	1	0.0794	0.0618	1.6504	0.1989

c-statistic=0.883

Table 2. Risk Adjustment Coefficients for PSI #03 - Death Rate in Low-Mortality Diagnosis Related Groups

Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
Intercept		1	-9.1572	0.2996	934.2571	<.0001
AGE	18 to 24	1	-0.308	0.1456	4.4705	0.0345
AGE	25 to 29	1	-0.3414	0.1576	4.6896	0.0303
AGE	30 to 34	1	-0.931	0.19	24.0094	<.0001
AGE	35 to 39	1	-0.6307	0.1565	16.2349	<.0001
AGE	40 to 44	1	-0.5176	0.1292	16.0602	<.0001
AGE	45 to 49	1	-0.3949	0.1079	13.3935	0.0003
AGE	50 to 54	1	-0.2484	0.0921	7.2709	0.007
AGE	55 to 59	1	-0.1671	0.0849	3.8723	0.0491
AGE	65 to 74	1	0.0139	0.0684	0.041	0.8395
AGE	75 to 79	1	0.1151	0.0778	2.1872	0.1392
AGE	80 to 84	1	0.1482	0.0783	3.578	0.0585
AGE	85+	1	0.1928	0.0754	6.5305	0.0106
MDRG	102	1	2.9237	0.4785	37.3262	<.0001
MDRG	103	1	1.6013	0.4114	15.1504	<.0001
MDRG	111	1	1.7646	0.4309	16.7665	<.0001
MDRG	114	1	1.6064	0.3718	18.6649	<.0001
MDRG	117	1	2.3709	0.4206	31.7666	<.0001
MDRG	128	1	0.6293	0.6468	0.9467	0.3306
MDRG	401	1	2.0535	0.344	35.626	<.0001
MDRG	402	1	1.8628	0.3603	26.7299	<.0001
MDRG	403	1	0.9514	0.5016	3.5981	0.0578
MDRG	404	1	1.8372	0.3297	31.0522	<.0001
MDRG	405	1	1.0656	0.4444	5.7485	0.0165
MDRG	407	1	0.8751	0.648	1.8235	0.1769
MDRG	408	1	1.4367	0.391	13.4984	0.0002
MDRG	409	1	0.3145	0.4106	0.5868	0.4437
MDRG	410	1	1.1203	0.3367	11.0706	0.0009
MDRG	416	1	2.5058	0.3112	64.8538	<.0001

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MDRG	503	1	2.0936	0.325	41.4943	<.0001
MDRG	504	1	0.9301	0.58	2.5711	0.1088
MDRG	507	1	1.7304	0.338	26.2056	<.0001
MDRG	508	1	2.2315	0.3475	41.228	<.0001
MDRG	509	1	3.3658	0.3246	107.5253	<.0001
MDRG	510	1	0.9087	0.4604	3.8949	0.0484
MDRG	514	1	1.9501	0.336	33.6849	<.0001
MDRG	519	1	2.0285	0.4606	19.3929	<.0001
MDRG	520	1	1.3816	0.3728	13.737	0.0002
MDRG	521	1	2.0653	0.6485	10.1424	0.0014
MDRG	524	1	1.2743	0.322	15.6635	<.0001
MDRG	527	1	1.0635	0.4585	5.3805	0.0204
MDRG	531	1	1.027	0.4032	6.4871	0.0109
MDRG	535	1	1.3556	0.3807	12.6772	0.0004
MDRG	601	1	2.2212	0.3426	42.0228	<.0001
MDRG	602	1	1.9779	0.3077	41.3245	<.0001
MDRG	604	1	1.6434	0.3855	18.1781	<.0001
MDRG	611	1	2.1347	0.397	28.9055	<.0001
MDRG	613	1	1.2695	0.3963	10.2629	0.0014
MDRG	614	1	1.4948	0.4122	13.1527	0.0003
MDRG	615	1	0.4992	0.3974	1.578	0.209
MDRG	619	1	0.7071	0.4779	2.1895	0.139
MDRG	621	1	0.9199	0.4438	4.2958	0.0382
MDRG	701	1	1.9033	0.4116	21.3779	<.0001
MDRG	708	1	1.0325	0.5025	4.2207	0.0399
MDRG	709	1	1.1849	0.4788	6.1243	0.0133
MDRG	711	1	1.3683	0.4111	11.0785	0.0009
MDRG	805	1	2.9227	0.3853	57.537	<.0001
MDRG	806	1	1.3621	0.5353	6.4757	0.0109
MDRG	807	1	2.1592	0.3174	46.2719	<.0001
MDRG	809	1	3.2682	0.382	73.2107	<.0001
MDRG	811	1	2.497	0.3122	63.953	<.0001
MDRG	816	1	1.6476	0.4113	16.046	<.0001

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MDRG	828	1	2.4957	0.4593	29.5218	<.0001
MDRG	830	1	0.7656	1.042	0.5399	0.4625
MDRG	831	1	1.851	0.4782	14.9848	0.0001
MDRG	834	1	1.4483	0.4586	9.9728	0.0016
MDRG	1006	1	1.4265	0.5806	6.0362	0.014
MDRG	1007	1	1.9248	0.3713	26.8764	<.0001
MDRG	1008	1	1.6859	0.3682	20.9643	<.0001
MDRG	1103	1	1.7865	0.46	15.0861	0.0001
MDRG	1104	1	1.6927	0.479	12.4885	0.0004
MDRG	1109	1	0.9255	0.536	2.9815	0.0842
MDRG	1110	1	1.4547	0.3268	19.8099	<.0001
MDRG	1113	1	1.3314	0.3595	13.7127	0.0002
MDRG	1118	1	1.4662	0.4117	12.6823	0.0004
MDRG	1603	1	1.6621	0.4205	15.62	<.0001
MDRG	1604	1	-0.7093	0.7652	0.8592	0.354
MDRG	1711	1	2.2463	0.4784	22.049	<.0001
MDRG	1713	1	2.1827	0.3857	32.02	<.0001
MDRG	1801	1	3.0055	0.3066	96.0976	<.0001
MDRG	1802	1	1.6004	0.5026	10.1377	0.0015
MDRG	1803	1	-0.6089	1.0419	0.3415	0.559
MDRG	1806	1	0.4742	1.042	0.2071	0.649
MDRG	1807	1	3.1907	0.314	103.2718	<.0001
MDRG	1808	1	2.0136	0.3017	44.5342	<.0001
MDRG	2104	1	1.5319	0.4592	11.1264	0.0009
MDRG	2108	1	0.7793	0.6475	1.4483	0.2288
MDRG	2302	1	2.6852	0.3089	75.5481	<.0001
MDRG	2303	1	1.1846	0.5342	4.9173	0.0266
MDRG	2407	1	2.1143	0.5347	15.6365	<.0001
MDRG	2408	1	2.9535	0.3682	64.3437	<.0001
MDRG	2502	1	2.8686	0.3649	61.801	<.0001
MDC	1	1	2.8303	0.3014	88.2025	<.0001
MDC	3	1	2.0034	0.3649	30.1484	<.0001
MDC	4	1	3.051	0.3046	100.2977	<.0001

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MDC	5	1	2.145	0.3054	49.3305	<.0001
MDC	6	1	1.5169	0.3135	23.4062	<.0001
MDC	7	1	1.5462	0.3211	23.1902	<.0001

c-statistic=0.774

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	-3.1425	0.0464	4581.686	<.0001
AGE	18 to 24	1	-0.799	0.0732	119.0386	<.0001
AGE	25 to 29	1	-0.6861	0.0759	81.5956	<.0001
AGE	30 to 34	1	-0.6933	0.07	98.0069	<.0001
AGE	35 to 39	1	-0.4771	0.0602	62.8877	<.0001
AGE	40 to 44	1	-0.4263	0.0496	73.7512	<.0001
AGE	45 to 49	1	-0.3497	0.0419	69.6606	<.0001
AGE	50 to 59	1	-0.1666	0.0287	33.7574	<.0001
AGE	65 to 69	1	0.0316	0.03	1.1067	0.2928
AGE	70 to 74	1	0.1683	0.0299	31.6658	<.0001
AGE	75 to 79	1	0.3223	0.0296	118.1969	<.0001
AGE	80 to 84	1	0.46	0.0302	231.9869	<.0001
AGE	85+	1	0.5845	0.0327	319.7022	<.0001
MDRG	101	1	2.2147	0.0728	924.5904	<.0001
MDRG	102	1	2.8245	0.0561	2538.888	<.0001
MDRG	103	1	1.754	0.0571	942.0235	<.0001
MDRG	107	1	0.5887	0.1145	26.4436	<.0001
MDRG	401	1	1.6516	0.0764	467.0004	<.0001
MDRG	402	1	1.2252	0.0932	172.891	<.0001
MDRG	502	1	0.9599	0.0672	203.894	<.0001
MDRG	503	1	1.2127	0.0558	471.862	<.0001
MDRG	505	1	1.3304	0.148	80.7786	<.0001
MDRG	507	1	0.3493	0.0765	20.8348	<.0001
MDRG	508	1	1.7623	0.0489	1297.87	<.0001
MDRG	509	1	0.753	0.1041	52.2961	<.0001
MDRG	514	1	0.6891	0.0709	94.4188	<.0001
MDRG	519	1	0.8537	0.1373	38.6792	<.0001
MDRG	601	1	1.4188	0.0555	654.3203	<.0001
MDRG	602	1	1.4023	0.0461	926.549	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	603	1	1.1084	0.1269	76.2786	<.0001
MDRG	604	1	1.0959	0.0735	222.3164	<.0001
MDRG	610	1	0.8096	0.0977	68.6391	<.0001
MDRG	611	1	1.7247	0.0832	430.1632	<.0001
MDRG	701	1	1.596	0.0681	548.4535	<.0001
MDRG	704	1	0.8419	0.1292	42.4394	<.0001
MDRG	705	1	0.386	0.0891	18.7458	<.0001
MDRG	805	1	0.6186	0.1299	22.6642	<.0001
MDRG	811	1	0.4879	0.0594	67.4231	<.0001
MDRG	901	1	0.6934	0.157	19.5106	<.0001
MDRG	1102	1	0.7734	0.1123	47.4697	<.0001
MDRG	1103	1	0.6003	0.0965	38.7317	<.0001
MDRG	1104	1	0.2315	0.1128	4.2083	0.0402
MDRG	1109	1	1.1172	0.1101	103.0521	<.0001
MDRG	1401	1	0.1952	0.1274	2.3494	0.1253
MDRG	1707	1	1.642	0.1287	162.7027	<.0001
MDRG	1708	1	1.2357	0.1202	105.6105	<.0001
MDRG	1709	1	1.6723	0.1368	149.3649	<.0001
MDRG	1801	1	2.0413	0.0459	1973.791	<.0001
MDRG	1802	1	1.0193	0.1004	103.0614	<.0001
MDRG	2104	1	0.9674	0.0743	169.5721	<.0001
MDRG	2406	1	3.0516	0.1093	778.9034	<.0001
MDRG	2407	1	0.8648	0.1258	47.2484	<.0001
MDRG	2408	1	1.3468	0.0855	248.3692	<.0001
MDC	1	1	1.1179	0.0583	368.2464	<.0001
MDC	3	1	0.5791	0.0996	33.8042	<.0001
MDC	4	1	2.0221	0.0822	604.5794	<.0001
MDC	5	1	0.9451	0.0483	383.4308	<.0001
MDC	6	1	1.2231	0.0593	425.577	<.0001
MDC	7	1	1.8588	0.0768	586.1813	<.0001
MDC	8	1	0.3218	0.0517	38.7091	<.0001
MDC	9	1	0.3939	0.1149	11.7596	0.0006

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDC	10	1	0.6122	0.0804	57.9581	<.0001
MDC	11	1	0.7728	0.0794	94.7458	<.0001
MDC	12	1	0.436	0.1238	12.4087	0.0004
MDC	13	1	0.2886	0.0803	12.9123	0.0003
MDC	14	1	0.5956	0.188	10.0398	0.0015
MDC	16	1	1.0308	0.1178	76.6225	<.0001
MDC	17	1	2.1355	0.1339	254.3272	<.0001
MDC	18	1	1.9263	0.0904	453.9451	<.0001
MDC	21	1	1.1141	0.1118	99.3656	<.0001
MDC	Other	1	1.2922	0.113	130.8344	<.0001
TRNSFER		1	0.252	0.0225	125.6099	<.0001
COMORB	CHF	1	0.3851	0.0223	298.0182	<.0001
COMORB	PULMCIRC	1	0.0359	0.0326	1.2121	0.2709
COMORB	PERIVASC	1	0.1796	0.0219	67.0707	<.0001
COMORB	HTN_C	1	-0.3077	0.0156	387.3851	<.0001
COMORB	PARA	1	-0.2475	0.0358	47.7853	<.0001
COMORB	DMCX	1	-0.0795	0.0338	5.5402	0.0186
COMORB	HYPOTHY	1	-0.2026	0.0241	70.5354	<.0001
COMORB	RENLFAIL	1	0.393	0.02	386.2824	<.0001
COMORB	LIVER	1	0.633	0.0314	406.1028	<.0001
COMORB	METS	1	0.412	0.0291	200.2675	<.0001
COMORB	WGHTLOSS	1	0.0955	0.0245	15.2094	<.0001
COMORB	BLDLOSS	1	-0.3971	0.0607	42.8562	<.0001
COMORB	ANEMDEF	1	-0.2281	0.0196	135.1746	<.0001
COMORB	DRUG	1	-0.0014	0.0482	0.0008	0.9777
COMORB	PSYCH	1	-0.363	0.0455	63.7196	<.0001
COMORB	DEPRESS	1	-0.3818	0.0284	180.776	<.0001

c-statistic=0.726

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	-8.0687	0.0309	68114.01	<.0001
SEX	Female	1	0.3192	0.0249	164.3409	<.0001
AGE	65+	1	0.3229	0.0277	136.132	<.0001
MDRG	416	1	1.7119	0.0562	929.2074	<.0001
MDRG	504	1	2.9896	0.0587	2591.381	<.0001
MDRG	510	1	3.2942	0.0373	7815.015	<.0001
MDRG	601	1	1.358	0.129	110.733	<.0001
MDRG	602	1	0.6229	0.0704	78.1675	<.0001
MDRG	1103	1	2.4259	0.0809	898.9611	<.0001
MDRG	1801	1	1.1643	0.0892	170.4581	<.0001
MDRG	1807	1	2.257	0.0712	1004.283	<.0001
MDC	1	1	0.3988	0.0494	65.1518	<.0001
MDC	6	1	-0.4603	0.0557	68.2616	<.0001
MDC	8	1	-0.7741	0.054	205.8683	<.0001
MDC	25	1	1.1668	0.1668	48.9194	<.0001
NOPRDAY		1	-3.1692	0.0836	1435.893	<.0001
COMORB	HTN_C	1	-0.1998	0.0261	58.7485	<.0001
COMORB	NEURO	1	0.1303	0.0418	9.7332	0.0018
COMORB	CHRNLUNG	1	0.2646	0.0287	84.8286	<.0001
COMORB	DM	1	-0.3204	0.0333	92.6234	<.0001
COMORB	DMCX	1	-0.4576	0.0653	49.05	<.0001
COMORB	METS	1	0.4437	0.0612	52.4913	<.0001
COMORB	OBESE	1	-0.532	0.0473	126.282	<.0001
COMORB	WGHTLOSS	1	0.9749	0.0371	689.7674	<.0001
COMORB	DRUG	1	0.3359	0.0627	28.7033	<.0001

Intercept

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	-10.8845	0.1225	7899.726	<.0001
MDRG	101	1	4.7242	0.2576	336.215	<.0001
MDRG	102	1	3.8491	0.2429	251.1201	<.0001
MDRG	103	1	3.1033	0.2287	184.1184	<.0001
MDRG	114	1	2.8028	0.2033	190.152	<.0001
MDRG	118	1	3.589	0.2666	181.1733	<.0001
MDRG	128	1	2.4716	0.2863	74.5104	<.0001
MDRG	401	1	3.054	0.2863	113.7993	<.0001
MDRG	402	1	3.1424	0.2612	144.763	<.0001
MDRG	404	1	2.318	0.2482	87.2373	<.0001
MDRG	408	1	2.2338	0.2887	59.8617	<.0001
MDRG	409	1	1.4045	0.3266	18.4873	<.0001
MDRG	410	1	1.7302	0.2673	41.8903	<.0001
MDRG	416	1	3.6083	0.1514	568.119	<.0001
MDRG	502	1	1.4988	0.4643	10.423	0.0012
MDRG	503	1	3.5876	0.1776	408.0799	<.0001
MDRG	504	1	2.9541	0.295	100.2508	<.0001
MDRG	507	1	3.0002	0.2004	224.2321	<.0001
MDRG	508	1	3.5655	0.1995	319.4711	<.0001
MDRG	509	1	3.3987	0.2874	139.8775	<.0001
MDRG	511	1	0.9491	0.3559	7.1125	0.0077
MDRG	514	1	2.4675	0.2558	93.0364	<.0001
MDRG	520	1	2.1627	0.2668	65.6838	<.0001
MDRG	522	1	2.1247	0.2235	90.3577	<.0001
MDRG	524	1	2.6883	0.1802	222.4786	<.0001
MDRG	531	1	1.8021	0.3142	32.8913	<.0001
MDRG	601	1	3.8229	0.1946	385.8914	<.0001
MDRG	602	1	4.1277	0.1427	836.2551	<.0001
MDRG	604	1	3.9211	0.1909	422.0877	<.0001
MDRG	611	1	3.8371	0.2508	234.1322	<.0001
MDRG	613	1	3.2159	0.2393	180.5432	<.0001
MDRG	615	1	2.1966	0.1905	132.914	<.0001
MDRG	619	1	3.5575	0.2042	303.5587	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	620	1	2.3364	0.1962	141.8447	<.0001
MDRG	621	1	2.9393	0.2094	196.9453	<.0001
MDRG	701	1	4.2754	0.2564	278.0216	<.0001
MDRG	705	1	0.8649	0.3552	5.9283	0.0149
MDRG	708	1	2.8591	0.266	115.5648	<.0001
MDRG	710	1	3.6986	0.1834	406.5431	<.0001
MDRG	711	1	3.0266	0.2465	150.7388	<.0001
MDRG	805	1	3.0547	0.2945	107.578	<.0001
MDRG	807	1	-0.1902	0.3395	0.3138	0.5754
MDRG	832	1	4.0758	0.2727	223.31	<.0001
MDRG	901	1	2.5957	0.3263	63.2937	<.0001
MDRG	910	1	1.8869	0.2465	58.614	<.0001
MDRG	1007	1	2.9375	0.2356	155.4266	<.0001
MDRG	1008	1	3.0791	0.2473	155.0008	<.0001
MDRG	1109	1	3.1927	0.3989	64.0618	<.0001
MDRG	1110	1	2.9382	0.1787	270.3836	<.0001
MDRG	1113	1	1.5521	0.3264	22.6133	<.0001
MDRG	1604	1	3.776	0.1597	559.2073	<.0001
MDRG	1801	1	3.9573	0.1538	662.0515	<.0001
MDRG	1802	1	3.1826	0.2722	136.7187	<.0001
MDRG	1807	1	4.2401	0.1622	683.5312	<.0001
MDRG	1808	1	2.5914	0.1564	274.5939	<.0001
MDRG	2019	1	-7.6504	66.2548	0.0133	0.9081
MDRG	2104	1	3.4128	0.2421	198.7739	<.0001
MDRG	2107	1	2.6068	0.234	124.0633	<.0001
MDRG	2302	1	2.1186	0.2064	105.3371	<.0001
MDRG	2408	1	3.351	0.2859	137.4151	<.0001
MDC	1	1	3.5592	0.1397	649.129	<.0001
MDC	4	1	3.7834	0.1469	663.358	<.0001
MDC	5	1	3.3847	0.1405	580.5258	<.0001
MDC	6	1	2.8581	0.1622	310.4546	<.0001
MDC	7	1	3.3335	0.1948	292.9037	<.0001
MDC	8	1	1.8161	0.1537	139.6509	<.0001
MDC	9	1	2.8758	0.2073	192.3585	<.0001
MDC	10	1	2.6789	0.1991	181.1267	<.0001
MDC	11	1	2.6696	0.1888	199.9464	<.0001
MDC	13	1	1.1517	0.3133	13.5168	0.0002

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDC	16	1	3.6762	0.2422	230.3306	<.0001
MDC	18	1	4.2308	0.1574	722.095	<.0001
MDC	21	1	3.5546	0.1974	324.1647	<.0001
MDC	22	1	4.4813	0.2293	381.9189	<.0001
MDC	23	1	2.5643	0.34	56.8748	<.0001
MDC	24	1	2.9698	0.3256	83.2057	<.0001
TRANSFER		1	0.6003	0.055	119.0866	<.0001
NOPOUB04		1	-0.1036	0.0458	5.1073	0.0238
NOPRDAY		1	-3.494	0.1327	692.7814	<.0001
COMORB	CHF	1	0.4375	0.0517	71.6928	<.0001
COMORB	VALVE	1	0.0201	0.0778	0.0668	0.7961
COMORB	HTN_C	1	-0.4254	0.037	132.5699	<.0001
COMORB	PARA	1	0.9143	0.0603	229.9713	<.0001
COMORB	NEURO	1	0.3438	0.0542	40.1774	<.0001
COMORB	CHRNLUNG	1	0.0392	0.0424	0.8551	0.3551
COMORB	RENLFAL	1	0.3818	0.0506	56.9419	<.0001
COMORB	LIVER	1	0.3056	0.0746	16.7804	<.0001
COMORB	ARTH	1	0.0139	0.0969	0.0205	0.8862
COMORB	OBESE	1	0.4243	0.044	92.9536	<.0001
COMORB	WGHTLOSS	1	0.9331	0.0517	325.5951	<.0001
COMORB	BLDLOSS	1	0.2255	0.1294	3.0374	0.0814
COMORB	ANEMDEF	1	0.3116	0.0419	55.2975	<.0001
COMORB	DRUG	1	0.808	0.0626	166.6736	<.0001

c-statistic=0.891

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	-10.0623	0.1236	6624.978	<.0001
XCV2		1	-0.0246	0.1571	0.0244	0.8758
MDC	5	1	0.1933	0.1667	1.3445	0.2462

c-statistic=0.506

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	-7.6832	0.0541	20180.38	<.0001
SEX	Female	1	-0.0872	0.013	44.9092	<.0001
MDRG	107	1	3.1134	0.0641	2360.387	<.0001
MDRG	302	1	3.2858	0.0956	1181.462	<.0001
MDRG	401	1	3.1846	0.0625	2599.385	<.0001
MDRG	503	1	4.0588	0.0576	4965.703	<.0001
MDRG	504	1	1.695	0.1027	272.1726	<.0001
MDRG	507	1	3.2908	0.0604	2967.884	<.0001
MDRG	508	1	3.5087	0.0609	3323.583	<.0001
MDRG	509	1	2.2899	0.0984	541.6825	<.0001
MDRG	514	1	3.0499	0.0607	2528.247	<.0001
MDRG	519	1	1.976	0.1156	292.1588	<.0001
MDRG	601	1	2.8245	0.0699	1632.81	<.0001
MDRG	602	1	2.7733	0.0578	2303.829	<.0001
MDRG	603	1	2.8055	0.0989	803.8786	<.0001
MDRG	604	1	2.3281	0.0794	859.419	<.0001
MDRG	606	1	1.4993	0.0878	291.2934	<.0001
MDRG	609	1	2.5329	0.104	593.4622	<.0001
MDRG	610	1	2.2847	0.0814	787.5918	<.0001
MDRG	701	1	3.3332	0.0749	1981.426	<.0001
MDRG	704	1	3.1444	0.082	1470.765	<.0001
MDRG	705	1	1.7861	0.0658	736.5843	<.0001
MDRG	803	1	1.8405	0.07	691.661	<.0001
MDRG	805	1	2.7172	0.0842	1042.039	<.0001
MDRG	808	1	1.7102	0.0773	490.063	<.0001
MDRG	902	1	3.3923	0.0995	1163.492	<.0001
MDRG	903	1	3.4001	0.0639	2834.144	<.0001
MDRG	904	1	3.3741	0.0775	1894.547	<.0001

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MDRG	1003	1	2.5394	0.0669	1440.708	<.0001
MDRG	1005	1	3.1142	0.0722	1862.173	<.0001
MDRG	1101	1	3.7972	0.0881	1859.539	<.0001
MDRG	1103	1	2.9403	0.0755	1517.853	<.0001
MDRG	1105	1	3.5454	0.1167	922.3668	<.0001
MDRG	1109	1	2.5119	0.0991	642.2124	<.0001
MDRG	1204	1	2.7985	0.088	1011.056	<.0001
MDRG	1303	1	2.7605	0.0935	871.5862	<.0001
MDRG	1304	1	2.8194	0.0585	2323.275	<.0001
MDRG	1707	1	3.2418	0.1066	925.5168	<.0001
MDRG	1801	1	2.5904	0.068	1450.238	<.0001
MDRG	1802	1	2.4472	0.0925	700.1442	<.0001
MDRG	2104	1	2.5703	0.0865	882.3598	<.0001
MDRG	2408	1	2.4556	0.1096	502.2189	<.0001
MDRG	7702	1	4.9819	0.0976	2602.97	<.0001
MDC	1	1	2.1899	0.0644	1156.191	<.0001
MDC	3	1	3.2693	0.0699	2189.645	<.0001
MDC	4	1	2.7675	0.0686	1626.618	<.0001
MDC	5	1	2.1237	0.0577	1354.788	<.0001
MDC	6	1	2.2968	0.0686	1120.621	<.0001
MDC	7	1	3.2265	0.0906	1269.314	<.0001
MDC	8	1	1.3102	0.0593	487.9961	<.0001
MDC	9	1	2.3463	0.0829	800.3217	<.0001
MDC	10	1	2.1659	0.0791	748.9073	<.0001
MDC	11	1	2.211	0.0681	1054.399	<.0001
MDC	12	1	2.0379	0.0847	578.6685	<.0001
MDC	13	1	2.6516	0.0722	1349.364	<.0001
MDC	16	1	2.548	0.1303	382.1061	<.0001
MDC	17	1	3.0783	0.0878	1228.811	<.0001
MDC	18	1	3.6792	0.1272	836.675	<.0001
MDC	21	1	2.4488	0.1055	538.867	<.0001
MDC	24	1	2.0485	0.157	170.2587	<.0001
MDC	Other	1	2.0525	0.1089	354.9456	<.0001

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TRNSFER		1	0.2189	0.0246	79.056	<.0001
NOPOUB04		1	0.0539	0.0152	12.5151	0.0004
CHF		1	0.2976	0.0276	115.9756	<.0001
VALVE		1	0.5116	0.0298	295.3414	<.0001
PERIVASC		1	0.2412	0.0196	151.7458	<.0001
HTN_C		1	-0.0093	0.0131	0.5085	0.4758
DM		1	-0.1156	0.0159	52.8414	<.0001
RENLFAIL		1	0.2365	0.0193	149.8182	<.0001
LIVER		1	0.3474	0.034	104.2076	<.0001
TUMOR		1	0.077	0.0403	3.6442	0.0563
ANEMDEF		1	-0.2601	0.0199	170.4348	<.0001
DRUG		1	0.0873	0.0418	4.3731	0.0365

c-statistic=0.733

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	-6.7583	0.1104	3744.655	<.0001
SEX	Female	1	-0.4259	0.0467	83.2981	<.0001
AGE	18 to 59	1	-0.4812	0.0788	37.2969	<.0001
AGE	65 to 79	1	0.2341	0.0716	10.6907	0.0011
AGE	80+	1	0.2146	0.0875	6.0072	0.0142
MDRG	503	1	1.3069	0.1051	154.7532	<.0001
MDRG	508	1	0.9257	0.1248	55.0305	<.0001
MDC	4	1	0.2309	0.1296	3.1729	0.0749
MDC	7	1	0.6708	0.1235	29.4761	<.0001
MDC	8	1	-1.8299	0.1105	274.0134	<.0001
MDC	Other	1	-0.3558	0.0924	14.8283	0.0001
COMORB	VALVE	1	0.452	0.103	19.2716	<.0001
COMORB	OBESE	1	0.7111	0.053	180.0168	<.0001
COMORB	RENLFAIL	1	1.4921	0.0534	780.4633	<.0001
COMORB	PERIVASC	1	0.1375	0.065	4.4705	0.0345
COMORB	CHF	1	0.7552	0.0819	85.0534	<.0001
COMORB	LIVER	1	0.9025	0.0995	82.2131	<.0001
COMORB	DMCX	1	0.4566	0.0807	31.9711	<.0001
COMORB	HTN_C	1	-0.4858	0.0487	99.5099	<.0001

c-statistic=0.847

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	-6.3227	0.0321	38777.37	<.0001
SEX	Female	1	-0.1444	0.0143	101.7142	<.0001
AGE	18 to 24	1	-0.5585	0.068	67.3955	<.0001
AGE	25 to 29	1	-0.6814	0.0716	90.5109	<.0001
AGE	30 to 34	1	-0.7978	0.0618	166.8141	<.0001
AGE	35 to 39	1	-0.5878	0.0493	141.8993	<.0001
AGE	40 to 44	1	-0.5143	0.0406	160.5617	<.0001
AGE	45 to 49	1	-0.3932	0.0344	131.0222	<.0001
AGE	50 to 54	1	-0.237	0.0295	64.6913	<.0001
AGE	55 to 59	1	-0.0771	0.0268	8.2401	0.0041
AGE	65 to 69	1	0.0984	0.0249	15.5585	<.0001
AGE	70 to 74	1	0.2016	0.0258	61.1276	<.0001
AGE	75 to 79	1	0.2872	0.0273	110.4365	<.0001
AGE	80 to 84	1	0.3806	0.0305	155.6829	<.0001
AGE	85+	1	0.4457	0.0362	151.9455	<.0001
MDRG	101	1	4.2741	0.1555	755.2328	<.0001
MDRG	102	1	3.0771	0.1095	790.339	<.0001
MDRG	103	1	2.3093	0.0411	3162.868	<.0001
MDRG	107	1	0.9741	0.0522	348.0728	<.0001
MDRG	601	1	2.3299	0.0407	3273.561	<.0001
MDRG	602	1	2.1975	0.0298	5419.596	<.0001
MDRG	603	1	1.8112	0.0674	722.0724	<.0001
MDRG	604	1	2.2343	0.0508	1932.304	<.0001
MDRG	607	1	1.1637	0.0972	143.2061	<.0001
MDRG	610	1	1.8178	0.0502	1313.029	<.0001
MDRG	611	1	1.6977	0.0932	331.5738	<.0001
MDRG	701	1	2.7725	0.0426	4237.112	<.0001
MDRG	704	1	1.8862	0.088	458.9453	<.0001
MDRG	705	1	1.6337	0.0594	755.4209	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	801	1	2.4814	0.0515	2320.099	<.0001
MDRG	802	1	2.666	0.0593	2017.985	<.0001
MDRG	803	1	0.9189	0.0411	499.2148	<.0001
MDRG	805	1	1.2956	0.0806	258.4443	<.0001
MDRG	806	1	0.5284	0.0631	70.0342	<.0001
MDRG	808	1	0.9732	0.0481	409.3519	<.0001
MDRG	811	1	0.9684	0.0893	117.6223	<.0001
MDRG	815	1	0.1616	0.0644	6.2962	0.0121
MDRG	826	1	1.0538	0.1036	103.4876	<.0001
MDRG	901	1	0.5061	0.133	14.48	0.0001
MDRG	1001	1	2.0593	0.0907	515.3908	<.0001
MDRG	1003	1	1.2429	0.0534	541.4608	<.0001
MDRG	1102	1	2.49	0.0576	1870.985	<.0001
MDRG	1103	1	2.0637	0.0442	2179.321	<.0001
MDRG	1104	1	1.4308	0.067	455.8709	<.0001
MDRG	1201	1	0.4423	0.0825	28.7466	<.0001
MDRG	1302	1	2.3016	0.0743	959.3047	<.0001
MDRG	1303	1	1.5214	0.0696	478.1155	<.0001
MDRG	1304	1	0.5288	0.0538	96.5929	<.0001
MDRG	1707	1	1.8312	0.1046	306.6969	<.0001
MDRG	1709	1	2.682	0.0845	1007.069	<.0001
MDRG	1801	1	2.8455	0.0571	2480.56	<.0001
MDRG	1802	1	1.288	0.0901	204.3979	<.0001
MDRG	2104	1	2.0326	0.0591	1181.796	<.0001
MDRG	7702	1	3.8775	0.1031	1415.537	<.0001
MDC	1	1	1.8757	0.0468	1607.784	<.0001
MDC	3	1	2.2641	0.0792	817.4957	<.0001
MDC	6	1	2.5916	0.046	3168.34	<.0001
MDC	7	1	2.8634	0.0651	1936.527	<.0001
MDC	8	1	0.8563	0.0375	522.6962	<.0001
MDC	10	1	1.3299	0.0544	596.9845	<.0001
MDC	11	1	1.5527	0.0503	953.9225	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDC	12	1	0.3592	0.1052	11.6537	0.0006
MDC	13	1	1.3185	0.0629	438.9994	<.0001
MDC	16	1	1.9596	0.1043	353.3095	<.0001
MDC	17	1	2.0473	0.1001	418.2338	<.0001
MDC	21	1	1.7082	0.0902	358.3698	<.0001
MDC	Other	1	0.8192	0.0532	236.7204	<.0001
TRANSFER		1	0.5841	0.0443	173.4995	<.0001
NOPOUB04		1	-0.1203	0.0288	17.4369	<.0001
NOPRDAY		1	-0.7914	0.084	88.7464	<.0001
COMORB	CHF	1	0.8024	0.0232	1199.62	<.0001
COMORB	VALVE	1	0.1924	0.029	43.9669	<.0001
COMORB	PULMCIRC	1	0.8854	0.0353	628.5042	<.0001
COMORB	HTN_C	1	0.0328	0.0149	4.841	0.0278
COMORB	PARA	1	0.8995	0.0397	513.285	<.0001
COMORB	NEURO	1	0.4728	0.0292	261.7143	<.0001
COMORB	CHRN LUNG	1	0.597	0.0152	1545.452	<.0001
COMORB	DM	1	0.121	0.0163	55.3057	<.0001
COMORB	HYPOTHY	1	0.0138	0.0199	0.4813	0.4879
COMORB	RENLFAIL	1	0.5589	0.021	708.0756	<.0001
COMORB	LIVER	1	0.351	0.0351	100.1625	<.0001
COMORB	METS	1	0.3755	0.0283	175.9504	<.0001
COMORB	OBESE	1	0.6708	0.0163	1696.335	<.0001
COMORB	WGHTLOSS	1	1.1501	0.0265	1877.708	<.0001
COMORB	ANEMDEF	1	0.205	0.0201	104.3966	<.0001
COMORB	ALCOHOL	1	0.7638	0.0378	407.9529	<.0001
COMORB	DRUG	1	0.3551	0.057	38.7766	<.0001

c-statistic=0.821

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	-5.789	0.0244	56382.97	<.0001
AGE	18 to 24	1	-0.7516	0.0494	231.5167	<.0001
AGE	25 to 29	1	-0.5442	0.0507	115.1712	<.0001
AGE	30 to 34	1	-0.4435	0.0451	96.6014	<.0001
AGE	35 to 39	1	-0.3453	0.0408	71.6149	<.0001
AGE	40 to 44	1	-0.3024	0.035	74.6713	<.0001
AGE	45 to 49	1	-0.2449	0.0303	65.2099	<.0001
AGE	50 to 59	1	-0.1524	0.0217	49.3368	<.0001
AGE	65 to 69	1	0.1	0.0203	24.3634	<.0001
AGE	75 to 79	1	0.1978	0.0243	66.0032	<.0001
AGE	80 to 84	1	0.2279	0.0259	77.2173	<.0001
AGE	85+	1	0.1114	0.0279	15.9172	<.0001
MDRG	101	1	2.1394	0.0684	978.4097	<.0001
MDRG	102	1	1.6196	0.0553	856.3247	<.0001
MDRG	103	1	0.9631	0.038	643.0578	<.0001
MDRG	104	1	1.119	0.064	305.3734	<.0001
MDRG	105	1	0.0808	0.1503	0.2888	0.591
MDRG	107	1	-1.5374	0.1426	116.2917	<.0001
MDRG	108	1	0.377	0.0967	15.2135	<.0001
MDRG	401	1	0.3505	0.0501	49.0304	<.0001
MDRG	402	1	0.3217	0.0593	29.414	<.0001
MDRG	502	1	-0.7481	0.0895	69.8365	<.0001
MDRG	503	1	0.6801	0.0415	268.3019	<.0001
MDRG	505	1	0.7469	0.1257	35.3047	<.0001
MDRG	507	1	0.37	0.0445	69.2203	<.0001
MDRG	508	1	0.6573	0.0455	208.8177	<.0001
MDRG	509	1	0.334	0.0847	15.5619	<.0001
MDRG	511	1	-1.296	0.0637	414.1402	<.0001
MDRG	514	1	-0.1104	0.0552	4.0009	0.0455

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	519	1	-0.2934	0.1146	6.5547	0.0105
MDRG	601	1	0.8796	0.0429	421.0212	<.0001
MDRG	602	1	0.8206	0.0269	933.3548	<.0001
MDRG	603	1	0.4177	0.0956	19.0997	<.0001
MDRG	604	1	0.7171	0.0511	196.6983	<.0001
MDRG	611	1	0.6086	0.0717	72.097	<.0001
MDRG	701	1	0.9143	0.0601	231.0854	<.0001
MDRG	705	1	-0.9031	0.0616	215.0976	<.0001
MDRG	801	1	1.0566	0.0711	220.8606	<.0001
MDRG	802	1	1.5016	0.0706	452.725	<.0001
MDRG	804	1	1.1295	0.0657	295.6991	<.0001
MDRG	805	1	0.9225	0.0616	224.3533	<.0001
MDRG	806	1	0.4146	0.0554	56.0827	<.0001
MDRG	807	1	0.4473	0.0229	380.4203	<.0001
MDRG	808	1	-0.6615	0.0752	77.3451	<.0001
MDRG	811	1	0.8338	0.0312	715.3125	<.0001
MDRG	815	1	-0.335	0.0618	29.3749	<.0001
MDRG	1001	1	0.3447	0.1503	5.2597	0.0218
MDRG	1003	1	-0.934	0.1053	78.6007	<.0001
MDRG	1006	1	0.0354	0.1296	0.0746	0.7847
MDRG	1101	1	-0.1782	0.1838	0.9396	0.3324
MDRG	1102	1	1.4103	0.0724	379.029	<.0001
MDRG	1103	1	0.8109	0.061	176.8942	<.0001
MDRG	1104	1	0.2811	0.0715	15.44	<.0001
MDRG	1107	1	-0.4771	0.0936	25.9647	<.0001
MDRG	1109	1	0.1769	0.0883	4.0089	0.0453
MDRG	1201	1	-0.8639	0.12	51.8159	<.0001
MDRG	1301	1	0.8435	0.1139	54.8424	<.0001
MDRG	1302	1	1.5672	0.0743	445.4037	<.0001
MDRG	1303	1	0.6333	0.0836	57.3646	<.0001
MDRG	1304	1	-0.9468	0.0662	204.6844	<.0001
MDRG	1707	1	0.9998	0.0955	109.6141	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	1708	1	0.7675	0.1021	56.4934	<.0001
MDRG	1709	1	1.2307	0.1151	114.2604	<.0001
MDRG	1801	1	1.0446	0.0333	983.6414	<.0001
MDRG	1802	1	0.6838	0.0629	118.2505	<.0001
MDRG	2104	1	0.598	0.0583	105.3462	<.0001
MDRG	2406	1	2.5881	0.1107	546.4506	<.0001
MDRG	2407	1	2.3141	0.057	1645.433	<.0001
MDRG	2408	1	2.3737	0.0442	2881.43	<.0001
MDRG	2501	1	1.2251	0.2265	29.2477	<.0001
MDRG	7701	1	2.0022	0.1028	378.9636	<.0001
MDRG	7702	1	1.1664	0.1388	70.598	<.0001
MDC	1	1	2.1177	0.0354	3577.977	<.0001
MDC	4	1	1.3324	0.051	681.7795	<.0001
MDC	5	1	0.2341	0.0378	38.4501	<.0001
MDC	7	1	0.6566	0.0577	129.5035	<.0001
MDC	11	1	0.2705	0.0903	8.9647	0.0028
MDC	12	1	-0.4271	0.1093	15.276	<.0001
MDC	16	1	0.8594	0.0925	86.2605	<.0001
MDC	17	1	1.2674	0.1421	79.5972	<.0001
MDC	18	1	2.1873	0.0701	974.8359	<.0001
MDC	21	1	0.7264	0.0789	84.6681	<.0001
MDC	22	1	1.4154	0.1085	170.1862	<.0001
MDC	24	1	1.5605	0.7149	4.7644	0.0291
MDC	25	1	2.5957	0.5169	25.2168	<.0001
TRANSFER		1	0.61	0.0203	902.8544	<.0001
COMORB	CHF	1	0.2063	0.0228	81.5691	<.0001
COMORB	VALVE	1	-0.0203	0.0286	0.5009	0.4791
COMORB	PULMCIRC	1	0.7128	0.0328	473.1162	<.0001
COMORB	PERIVASC	1	-0.0907	0.0228	15.8017	<.0001
COMORB	HTN_C	1	-0.1149	0.013	78.2602	<.0001
COMORB	PARA	1	0.4401	0.0297	220.307	<.0001
COMORB	NEURO	1	0.1168	0.0236	24.4299	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
COMORB	CHRNLUNG	1	-0.0135	0.0154	0.7653	0.3817
COMORB	DM	1	-0.0856	0.0155	30.3794	<.0001
COMORB	HYPOTHY	1	-0.12	0.0185	42.0157	<.0001
COMORB	RENLFAIL	1	0.058	0.0191	9.2056	0.0024
COMORB	AIDS	1	0.189	0.1506	1.574	0.2096

c-statistic=0.74

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	-5.4202	0.0696	6070.811	<.0001
SEX	Female	1	-0.1728	0.0297	33.7657	<.0001
AGE	18 to 39	1	-0.4334	0.0697	38.6829	<.0001
AGE	40 to 59	1	-0.1958	0.0501	15.241	<.0001
AGE	65 to 69	1	0.1029	0.0556	3.4248	0.0642
AGE	70 to 74	1	0.1963	0.057	11.8602	0.0006
AGE	75 to 79	1	0.3447	0.058	35.3549	<.0001
AGE	80 to 84	1	0.4732	0.062	58.2713	<.0001
AGE	85+	1	0.2909	0.075	15.0395	0.0001
MDRG	503	1	1.0261	0.0687	222.8656	<.0001
MDRG	505	1	0.8586	0.1852	21.4974	<.0001
MDRG	508	1	1.5506	0.086	325.2148	<.0001
MDRG	601	1	1.7956	0.087	425.9749	<.0001
MDRG	602	1	1.6474	0.0654	633.7491	<.0001
MDRG	806	1	0.0765	0.1469	0.2714	0.6024
MDRG	1003	1	1.9698	0.1093	324.8463	<.0001
MDRG	1104	1	1.9067	0.0996	366.4519	<.0001
MDC	4	1	0.8904	0.1172	57.717	<.0001
MDC	5	1	1.0924	0.0616	314.9481	<.0001
MDC	7	1	1.3083	0.103	161.3044	<.0001
MDC	8	1	0.2842	0.0668	18.1025	<.0001
MDC	10	1	0.5972	0.1374	18.8803	<.0001
MDC	Other	1	1.0726	0.0607	312.2131	<.0001
TRANSFER		1	0.2637	0.0776	11.5402	0.0007
COMORB	CHF	1	0.865	0.0524	272.8109	<.0001
COMORB	VALVE	1	0.2284	0.0692	10.9048	0.001
COMORB	PULMCIRC	1	0.5054	0.0871	33.7007	<.0001
COMORB	HTN_C	1	-0.5542	0.0306	327.0687	<.0001
COMORB	PARA	1	0.6552	0.0792	68.5058	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
COMORB	CHRNLUNG	1	0.0487	0.0348	1.9609	0.1614
COMORB	HYPOTHY	1	-0.2326	0.0473	24.1608	<.0001
COMORB	RENLFAIL	1	0.5211	0.0416	156.7906	<.0001
COMORB	LIVER	1	0.5039	0.0795	40.1338	<.0001
COMORB	OBESE	1	0.2832	0.0364	60.3886	<.0001
COMORB	WGHTLOSS	1	0.9156	0.0631	210.2055	<.0001
COMORB	ALCOHOL	1	0.4407	0.0808	29.756	<.0001
COMORB	DEPRESS	1	-0.1022	0.0473	4.6752	0.0306

c-statistic=0.717

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	-5.7503	0.0849	4581.908	<.0001
SEX	Female	1	-0.8464	0.0555	232.6556	<.0001
AGE	18 to 59	1	-0.3167	0.0807	15.3951	<.0001
AGE	65+	1	0.0259	0.0781	0.1097	0.7405
MDRG	1102	1	0.622	0.1336	21.6747	<.0001
MDC	6	1	-0.4427	0.0686	41.6817	<.0001
MDC	11	1	-1.1017	0.179	37.8905	<.0001
MDC	13	1	-1.0332	0.1296	63.5645	<.0001
MDC	18	1	0.76	0.0888	73.1921	<.0001
MDC	Other	1	-0.4289	0.0672	40.7704	<.0001
COMORB	CHF	1	0.4477	0.0863	26.8823	<.0001
COMORB	HTN_C	1	-0.1169	0.0527	4.9215	0.0265
COMORB	CHRNLUNG	1	0.6273	0.0566	122.7759	<.0001
COMORB	OBESE	1	0.435	0.0647	45.1859	<.0001
COMORB	WGHTLOSS	1	0.749	0.0769	94.9021	<.0001
COMORB	ALCOHOL	1	0.9055	0.0903	100.65	<.0001

c-statistic=0.745

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	-8.6738	0.0678	16384.42	<.0001
SEX	Female	1	0.213	0.0117	330.1299	<.0001
AGE	18 to 24	1	-0.5473	0.0423	167.3218	<.0001
AGE	25 to 29	1	-0.4762	0.0399	142.7805	<.0001
AGE	30 to 59	1	-0.1519	0.0115	174.1153	<.0001
MDRG	101	1	3.4167	0.1673	417.2631	<.0001
MDRG	103	1	2.3062	0.1038	493.2178	<.0001
MDRG	107	1	2.1428	0.1164	339.132	<.0001
MDRG	302	1	2.3963	0.1892	160.3932	<.0001
MDRG	401	1	3.8197	0.0773	2440.39	<.0001
MDRG	402	1	2.1053	0.1212	301.5563	<.0001
MDRG	416	1	0.9261	0.1348	47.1804	<.0001
MDRG	502	1	2.5156	0.1029	597.1082	<.0001
MDRG	503	1	4.2253	0.0727	3379.329	<.0001
MDRG	504	1	2.5451	0.1152	487.8175	<.0001
MDRG	505	1	4.5002	0.1072	1761.99	<.0001
MDRG	506	1	4.7426	0.1253	1431.588	<.0001
MDRG	507	1	3.0959	0.0822	1419.809	<.0001
MDRG	508	1	4.1104	0.0744	3049.911	<.0001
MDRG	510	1	1.9724	0.1072	338.4919	<.0001
MDRG	511	1	2.5091	0.0784	1024.043	<.0001
MDRG	513	1	3.078	0.0896	1180.092	<.0001
MDRG	514	1	3.2383	0.0773	1753.843	<.0001
MDRG	519	1	2.6199	0.1467	318.7775	<.0001
MDRG	520	1	0.7704	0.1504	26.2288	<.0001
MDRG	522	1	0.7705	0.1203	40.9886	<.0001
MDRG	601	1	4.8332	0.0716	4558.661	<.0001
MDRG	602	1	5.3117	0.0678	6134.962	<.0001
MDRG	603	1	4.5838	0.0866	2802.077	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	604	1	3.8082	0.0806	2234.971	<.0001
MDRG	606	1	1.993	0.1171	289.4194	<.0001
MDRG	609	1	3.4215	0.119	826.4315	<.0001
MDRG	610	1	2.4317	0.1143	452.7262	<.0001
MDRG	611	1	3.4892	0.0979	1269.905	<.0001
MDRG	621	1	1.6284	0.1167	194.55	<.0001
MDRG	701	1	4.6656	0.0794	3450.097	<.0001
MDRG	702	1	6.286	0.0835	5666.124	<.0001
MDRG	703	1	5.1562	0.1268	1653.701	<.0001
MDRG	704	1	5.1734	0.0768	4534.03	<.0001
MDRG	705	1	3.1409	0.0745	1777.777	<.0001
MDRG	712	1	2.7312	0.1038	691.9047	<.0001
MDRG	806	1	1.9428	0.1236	247.2547	<.0001
MDRG	807	1	0.7435	0.0874	72.3109	<.0001
MDRG	815	1	2.2751	0.1276	317.9264	<.0001
MDRG	816	1	1.2826	0.1292	98.5852	<.0001
MDRG	1001	1	4.2715	0.1114	1471.213	<.0001
MDRG	1003	1	3.258	0.082	1578.411	<.0001
MDRG	1005	1	2.7773	0.1131	602.9212	<.0001
MDRG	1006	1	3.1516	0.1441	478.1029	<.0001
MDRG	1101	1	3.5478	0.1458	591.6991	<.0001
MDRG	1102	1	4.9834	0.0887	3158.618	<.0001
MDRG	1103	1	4.8042	0.0755	4050.409	<.0001
MDRG	1104	1	4.1679	0.0806	2673.385	<.0001
MDRG	1105	1	4.9519	0.1036	2284.117	<.0001
MDRG	1107	1	2.7343	0.1067	656.2378	<.0001
MDRG	1109	1	3.4128	0.1052	1051.882	<.0001
MDRG	1201	1	3.7592	0.085	1954.063	<.0001
MDRG	1204	1	2.5965	0.1498	300.3925	<.0001
MDRG	1301	1	5.0615	0.0915	3060.4	<.0001
MDRG	1302	1	5.0997	0.0838	3707.605	<.0001
MDRG	1303	1	4.9621	0.0777	4082.552	<.0001

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PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
MDRG	1304	1	4.8196	0.0688	4908.212	<.0001
MDRG	1305	1	4.2683	0.1113	1470.766	<.0001
MDRG	1306	1	4.3051	0.0978	1937.254	<.0001
MDRG	1307	1	4.543	0.0871	2717.738	<.0001
MDRG	1308	1	5.2637	0.0969	2952.186	<.0001
MDRG	1707	1	4.1998	0.114	1358.054	<.0001
MDRG	1709	1	4.9705	0.1011	2416.273	<.0001
MDRG	1801	1	3.7233	0.0762	2385.954	<.0001
MDRG	1802	1	3.3358	0.1001	1109.49	<.0001
MDRG	2104	1	3.8471	0.0846	2069.085	<.0001
MDRG	2108	1	0.7424	0.2516	8.7093	0.0032
MDRG	2408	1	3.3634	0.1257	715.4702	<.0001
MDRG	7702	1	4.2534	0.1573	731.2908	<.0001
MDC	1	1	1.0825	0.0844	164.6153	<.0001
MDC	3	1	1.832	0.1133	261.4054	<.0001
MDC	4	1	0.7279	0.0864	70.9565	<.0001
MDC	5	1	1.606	0.0783	420.5624	<.0001
MDC	6	1	1.4892	0.0757	387.0279	<.0001
MDC	7	1	2.1068	0.0852	612.0423	<.0001
MDC	8	1	1.6589	0.0769	465.0403	<.0001
MDC	9	1	1.0628	0.0971	119.6877	<.0001
MDC	11	1	1.0973	0.0919	142.5727	<.0001
MDC	12	1	2.7732	0.1402	391.2458	<.0001
MDC	13	1	2.8578	0.1304	480.4856	<.0001
MDC	16	1	1.0678	0.1073	99.0804	<.0001
MDC	17	1	1.0718	0.128	70.1238	<.0001
MDC	18	1	0.8927	0.0909	96.4825	<.0001
MDC	21	1	1.5145	0.121	156.7568	<.0001
MDC	24	1	1.916	0.1945	97.0221	<.0001
TRANSFER		1	0.1391	0.0251	30.7491	<.0001
NOPRDAY		1	-2.1927	0.0453	2343.186	<.0001
COMORB	PERIVASC	1	0.1343	0.0208	41.8885	<.0001

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

PARAMETER	LABEL	DF	ESTIMATE	STANDARD ERROR	WALD CHI-SQUARE	PR > CHI-SQUARE
COMORB	DM	1	-0.173	0.0144	144.4114	<.0001
COMORB	DMCX	1	-0.3426	0.0329	108.2055	<.0001
COMORB	RENLFAIL	1	0.126	0.0184	46.6833	<.0001
COMORB	OBESE	1	0.1153	0.0147	61.2969	<.0001
COMORB	WGHTLOSS	1	0.3826	0.0207	342.6842	<.0001

c-statistic=0.921

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 13. NQF Numerator Weights for PSI #90

INDICATOR	WEIGHT USEPOA = 0 ³	WEIGHT USEPOA = 1 ⁴
PSI #3 Pressure Ulcer Rate	0.32663	0.033006
PSI #6 Iatrogenic Pneumothorax Rate	0.050252	0.075069
PSI #7 Central Venous Catheter-Related Blood Stream Infection Rate	0.030051	0.037684
PSI #8 Postoperative Hip Fracture Rate	0.003758	0.001796
PSI #9 Perioperative Hemorrhage or Hematoma Rate ²	0	0
PSI #10 Postoperative Physiologic and Metabolic Derangement Rate ²	0	0
PSI #11 Postoperative Respiratory Failure Rate ²	0	0
PSI #12 Perioperative Pulmonary Embolism or Deep Vein Thrombosis Rate	0.28677	0.3379
PSI #13 Postoperative Sepsis Rate	0.040466	0.057308
PSI #14 Postoperative Wound Dehiscence Rate	0.009294	0.018205
PSI #15 Accidental Puncture or Laceration Rate	0.25278	0.43903
SUM	1.0000	1.0000

³ The use of present on admission (POA) data results in different weights for the composite. Without POA data, USEPOA = 0; With POA, USEPOA = 1.

⁴ 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

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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	029	SPINAL PROCEDURES W CC OR SPINAL NEUROSTIMULATORS
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

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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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
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

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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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

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Patient Safety Indicators (PSI) Parameter Estimates

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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
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

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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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 INFECTION OF NERVOUS SYSTEM EXC VIRAL MENINGITIS W MCC
01	M	0127	561	NON-BACTERIAL INFECTIONS OF NERVOUS SYSTEM EXCEPT VIRAL MENINGITIS	098	NON-BACTERIAL INFECTION OF NERVOUS SYSTEM EXC VIRAL MENINGITIS W CC
01	M	0127	561	NON-BACTERIAL INFECTIONS OF NERVOUS SYSTEM EXCEPT VIRAL MENINGITIS	099	NON-BACTERIAL INFECTION OF NERVOUS SYSTEM 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)		
01	M	0198	025	SEIZURE & HEADACHE AGE >17 W/O 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

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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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

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Patient Safety Indicators (PSI) Parameter Estimates

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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
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

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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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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Patient Safety Indicators (PSI) Parameter Estimates

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 EXTRACTATIONS & RESTORATIONS, AGE >17	157	DENTAL & ORAL DISEASES W MCC
03	M	0311	186	DENTAL & ORAL DIS EXCEPT EXTRACTATIONS & RESTORATIONS, AGE 0-17	158	DENTAL & ORAL DISEASES W CC
03	M	0311	187	DENTAL EXTRACTATIONS & RESTORATIONS	159	DENTAL & ORAL DISEASES W/O CC/MCC
4	S	0401	075	MAJOR CHEST PROCEDURES	163	MAJOR CHEST PROCEDURES W MCC
4	S	0401	075	MAJOR CHEST PROCEDURES	164	MAJOR CHEST PROCEDURES W CC
4	S	0401	075	MAJOR CHEST PROCEDURES	165	MAJOR CHEST PROCEDURES W/O CC/MCC
4	S	0402	076	OTHER RESP SYSTEM O.R. PROCEDURES W CC	166	OTHER RESP SYSTEM O.R. PROCEDURES W MCC
4	S	0402	077	OTHER RESP SYSTEM O.R. PROCEDURES W/O CC	167	OTHER RESP SYSTEM O.R. PROCEDURES W CC
4	S	0402	077	OTHER RESP SYSTEM O.R. PROCEDURES W/O CC	168	OTHER RESP SYSTEM O.R. PROCEDURES W/O CC/MCC
4	M	0403	078	PULMONARY EMBOLISM	175	PULMONARY EMBOLISM W MCC
4	M	0403	078	PULMONARY EMBOLISM	176	PULMONARY EMBOLISM W/O MCC
4	M	0404	079	RESPIRATORY INFECTIONS & INFLAMMATIONS AGE >17 W CC	177	RESPIRATORY INFECTIONS & INFLAMMATIONS W MCC
4	M	0404	080	RESPIRATORY INFECTIONS & INFLAMMATIONS AGE >17 W/O CC	178	RESPIRATORY INFECTIONS & INFLAMMATIONS 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
4	M	0404	081	RESPIRATORY INFECTIONS & INFLAMMATIONS AGE 0-17	179	RESPIRATORY INFECTIONS & INFLAMMATIONS W/O CC/MCC
4	M	0405	082	RESPIRATORY NEOPLASMS	180	RESPIRATORY NEOPLASMS W MCC
4	M	0405	082	RESPIRATORY NEOPLASMS	181	RESPIRATORY NEOPLASMS W CC
4	M	0405	082	RESPIRATORY NEOPLASMS	182	RESPIRATORY NEOPLASMS W/O CC/MCC
4	M	0406	083	MAJOR CHEST TRAUMA W CC	183	MAJOR CHEST TRAUMA W MCC
4	M	0406	084	MAJOR CHEST TRAUMA W/O CC	184	MAJOR CHEST TRAUMA W CC
4	M	0406	084	MAJOR CHEST TRAUMA W/O CC	185	MAJOR CHEST TRAUMA W/O CC/MCC
4	M	0407	085	PLEURAL EFFUSION W CC	186	PLEURAL EFFUSION W MCC
4	M	0407	086	PLEURAL EFFUSION W/O CC	187	PLEURAL EFFUSION W CC
4	M	0407	086	PLEURAL EFFUSION W/O CC	188	PLEURAL EFFUSION W/O CC/MCC
4	M	0408	087	PULMONARY EDEMA & RESPIRATORY FAILURE	189	PULMONARY EDEMA & RESPIRATORY FAILURE
4	M	0409	088	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	190	CHRONIC OBSTRUCTIVE PULMONARY DISEASE W MCC
4	M	0409	088	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	191	CHRONIC OBSTRUCTIVE PULMONARY DISEASE W CC
4	M	0409	088	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	192	CHRONIC OBSTRUCTIVE PULMONARY DISEASE W/O CC/MCC
4	M	0410	089	SIMPLE PNEUMONIA & PLEURISY AGE >17 W CC	193	SIMPLE PNEUMONIA & PLEURISY 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
4	M	0410	090	SIMPLE PNEUMONIA & PLEURISY AGE >17 W/O CC	194	SIMPLE PNEUMONIA & PLEURISY W CC
4	M	0410	091	SIMPLE PNEUMONIA & PLEURISY AGE 0-17	195	SIMPLE PNEUMONIA & PLEURISY W/O CC/MCC
4	M	0411	092	INTERSTITIAL LUNG DISEASE W CC	196	INTERSTITIAL LUNG DISEASE W MCC
4	M	0411	093	INTERSTITIAL LUNG DISEASE W/O CC	197	INTERSTITIAL LUNG DISEASE W CC
4	M	0411	093	INTERSTITIAL LUNG DISEASE W/O CC	198	INTERSTITIAL LUNG DISEASE W/O CC/MCC
4	M	0412	094	PNEUMOTHORAX W CC	199	PNEUMOTHORAX W MCC
4	M	0412	095	PNEUMOTHORAX W/O CC	200	PNEUMOTHORAX W CC
4	M	0412	095	PNEUMOTHORAX W/O CC	201	PNEUMOTHORAX W/O CC/MCC
4	M	0413	096	BRONCHITIS & ASTHMA AGE >17 W CC	202	BRONCHITIS & ASTHMA W CC/MCC
4	M	0413	097	BRONCHITIS & ASTHMA AGE >17 W/O CC	203	BRONCHITIS & ASTHMA W/O CC/MCC
4	M	0413	098	BRONCHITIS & ASTHMA AGE 0-17	203	BRONCHITIS & ASTHMA W/O CC/MCC
4	M	0414	099	RESPIRATORY SIGNS & SYMPTOMS W CC	204	RESPIRATORY SIGNS & SYMPTOMS
4	M	0414	100	RESPIRATORY SIGNS & SYMPTOMS W/O CC	204	RESPIRATORY SIGNS & SYMPTOMS
4	M	0415	101	OTHER RESPIRATORY SYSTEM DIAGNOSES W CC	205	OTHER RESPIRATORY SYSTEM DIAGNOSES W MCC
4	M	0415	102	OTHER RESPIRATORY SYSTEM DIAGNOSES W/O CC	206	OTHER RESPIRATORY SYSTEM DIAGNOSES 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
4	M	0416	565	RESPIRATORY SYSTEM DIAGNOSIS WITH VENTILATOR SUPPORT 96+ HOURS	207	RESPIRATORY SYSTEM DIAGNOSIS W VENTILATOR SUPPORT 96+ HOURS
4	M	0416	566	RESPIRATORY SYSTEM DIAGNOSIS WITH VENTILATOR SUPPORT < 96 HOURS	208	RESPIRATORY SYSTEM DIAGNOSIS W VENTILATOR SUPPORT <96 HOURS
4	M	0416	475	RESPIRATORY SYSTEM DIAGNOSIS WITH VENTILATOR SUPPORT (NO LONGER VALID)		
5	S	0501	525	OTHER HEART ASSIST SYSTEM IMPLANT	215	OTHER HEART ASSIST SYSTEM IMPLANT
5	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
5	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
5	S	0502	516	PERCUTANEOUS CARDIOVASC PROC W AMI		
5	S	0502	517	PERC CARDIO PROC W NON-DRUG ELUTING STENT WO AMI		
5	S	0503	104	CARDIAC VALVE & OTH MAJOR CARDIOTHORACIC PROC W CARD CATH	216	CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W CARD CATH W MCC
5	S	0503	104	CARDIAC VALVE & OTH MAJOR CARDIOTHORACIC PROC W CARD CATH	217	CARDIAC VALVE & OTH MAJ CARDIOTHORACIC PROC W CARD CATH W CC
5	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
5	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
5	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
5	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

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

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
5	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
5	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
5	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
5	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
5	S	0504	515	CARDIAC DEFIBRILLATOR IMPLANT W/O CARDIAC CATH	226	CARDIAC DEFIBRILLATOR IMPLANT W/O CARDIAC CATH W MCC
5	S	0504	515	CARDIAC DEFIBRILLATOR IMPLANT W/O CARDIAC CATH	227	CARDIAC DEFIBRILLATOR IMPLANT W/O CARDIAC CATH W/O MCC
5	S	0505	108	OTHER CARDIOTHORACIC PROCEDURES	228	OTHER CARDIOTHORACIC PROCEDURES W MCC
5	S	0505	108	OTHER CARDIOTHORACIC PROCEDURES	229	OTHER CARDIOTHORACIC PROCEDURES W CC
5	S	0505	108	OTHER CARDIOTHORACIC PROCEDURES	230	OTHER CARDIOTHORACIC PROCEDURES W/O CC/MCC
5	S	0506	106	CORONARY BYPASS W PTCA	231	CORONARY BYPASS W PTCA W MCC
5	S	0506	106	CORONARY BYPASS W PTCA	232	CORONARY BYPASS W PTCA W/O MCC
5	S	0507	547	CORONARY BYPASS W CARDIAC CATH W MAJOR CV DX	233	CORONARY BYPASS W CARDIAC CATH W MCC
5	S	0507	548	CORONARY BYPASS W CARDIAC CATH W/O MAJOR CV DX	234	CORONARY BYPASS W CARDIAC CATH W/O MCC
5	S	0507	549	CORONARY BYPASS W/O CARDIAC CATH W MAJOR CV DX	235	CORONARY BYPASS W/O CARDIAC CATH W MCC
5	S	0507	550	CORONARY BYPASS W/O CARDIAC CATH W/O MAJOR CV DX	236	CORONARY BYPASS W/O CARDIAC CATH 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
5	S	0507	107	CORONARY BYPASS W CARDIAC CATH (NO LONGER VALID)		
5	S	0507	109	CORONARY BYPASS WO PTCA OR CARDIAC CATH (NO LONGER VALID)		
5	S	0508	110	MAJOR CARDIOVASCULAR PROCEDURES W CC	237	MAJOR CARDIOVASC PROCEDURES W MCC OR THORACIC AORTIC ANUERYSM REPAIR
5	S	0508	111	MAJOR CARDIOVASCULAR PROCEDURES W/O CC	238	MAJOR CARDIOVASCULAR PROCEDURES W/O MCC
5	S	0509	113	AMPUTATION FOR CIRC SYSTEM DISORDERS EXCEPT UPPER LIMB & TOE	239	AMPUTATION FOR CIRC SYS DISORDERS EXC UPPER LIMB & TOE W MCC
5	S	0509	113	AMPUTATION FOR CIRC SYSTEM DISORDERS EXCEPT UPPER LIMB & TOE	240	AMPUTATION FOR CIRC SYS DISORDERS EXC UPPER LIMB & TOE W CC
5	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
5	S	0510	551	PERMANENT CARDIAC PACEMAKER IMPL W MAJ CV DX OR AICD LEAD OR GNRTR	242	PERMANENT CARDIAC PACEMAKER IMPLANT W MCC
5	S	0510	552	OTHER PERMANENT CARDIAC PACEMAKER IMPLANT W/O MAJOR CV DX	243	PERMANENT CARDIAC PACEMAKER IMPLANT W CC
5	S	0510	552	OTHER PERMANENT CARDIAC PACEMAKER IMPLANT W/O MAJOR CV DX	244	PERMANENT CARDIAC PACEMAKER IMPLANT W/O CC/MCC
5	S	0510	552	OTHER PERMANENT CARDIAC PACEMAKER IMPLANT W/O MAJOR CV DX	245	AICD LEAD & GENERATOR PROCEDURES
5	S	0510	115	PRM CARD PACEM IMPL W AMI/HR/SHOCK OR AICD LEAD OR GNRTR (NO LONGER VALID)		
5	S	0510	116	OTHER PERMANENT CARDIAC PACEMAKER IMPLANT (NO LONGER VALID)		
5	S	0510	552	OTHER PERMANENT CARDIAC PACEMAKER IMPLANT W/O MAJOR CV DX	265	AICD LEAD PROCEDURES

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

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
5	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
5	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
5	S	0511	526	PERCUTNEOUS CARDIOVASULAR PROC W DRUG ELUTING STENT W AM		
5	S	0511	527	PERCUTNEOUS CARDIOVASULAR PROC W DRUG ELUTING STENT WO A		
5	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
5	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
5	S	0514	479	OTHER VASCULAR PROCEDURES W/O CC	252	OTHER VASCULAR PROCEDURES W MCC
5	S	0514	553	OTHER VASCULAR PROCEDURES W CC W MAJOR CV DX	253	OTHER VASCULAR PROCEDURES W CC
5	S	0514	554	OTHER VASCULAR PROCEDURES W CC W/O MAJOR CV DX	254	OTHER VASCULAR PROCEDURES W/O CC/MCC
5	S	0514	478	OTHER VASCULAR PROCEDURES W CC		
5	S	0515	114	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS	255	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS W MCC
5	S	0515	114	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS	256	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS W CC
5	S	0515	114	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS	257	UPPER LIMB & TOE AMPUTATION FOR CIRC SYSTEM DISORDERS W/O CC/MCC
5	S	0516	118	CARDIAC PACEMAKER DEVICE REPLACEMENT	258	CARDIAC PACEMAKER DEVICE REPLACEMENT W MCC
5	S	0516	118	CARDIAC PACEMAKER DEVICE REPLACEMENT	259	CARDIAC PACEMAKER DEVICE REPLACEMENT 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
5	S	0517	117	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT	260	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT W MCC
5	S	0517	117	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT	261	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT W CC
5	S	0517	117	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT	262	CARDIAC PACEMAKER REVISION EXCEPT DEVICE REPLACEMENT W/O CC/MCC
5	S	0518	119	VEIN LIGATION & STRIPPING	263	VEIN LIGATION & STRIPPING
5	S	0519	120	OTHER CIRCULATORY SYSTEM O.R. PROCEDURES	264	OTHER CIRCULATORY SYSTEM O.R. PROCEDURES
5	M	0520	121	CIRCULATORY DISORDERS W AMI & MAJOR COMP, DISCHARGED ALIVE	280	ACUTE MYOCARDIAL INFARCTION, DISCHARGED ALIVE W MCC
5	M	0520	122	CIRCULATORY DISORDERS W AMI W/O MAJOR COMP, DISCHARGED ALIVE	281	ACUTE MYOCARDIAL INFARCTION, DISCHARGED ALIVE W CC
5	M	0520	122	CIRCULATORY DISORDERS W AMI W/O MAJOR COMP, DISCHARGED ALIVE	282	ACUTE MYOCARDIA INFARCTION, DISCHARGED ALIVE W/O CC/MCC
5	M	0521	123	CIRCULATORY DISORDERS W AMI, EXPIRED	283	ACUTE MYOCARDIAL INFARCTION, EXPIRED W MCC
5	M	0521	123	CIRCULATORY DISORDERS W AMI, EXPIRED	284	ACUTE MYOCARDIAL INFARCTION, EXPIRED W CC
5	M	0521	123	CIRCULATORY DISORDERS W AMI, EXPIRED	285	ACUTE MYOCARDIAL INFARCTION, EXPIRED W/O CC/MCC
5	M	0522	124	CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH & COMPLEX DIAG	286	CIRCULATORY DISORDERS EXCEPT AMI, W CARD CATH W MCC
5	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
5	M	0523	126	ACUTE & SUBACUTE ENDOCARDITIS	288	ACUTE & SUBACUTE ENDOCARDITIS W MCC
5	M	0523	126	ACUTE & SUBACUTE ENDOCARDITIS	289	ACUTE & SUBACUTE ENDOCARDITIS 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
5	M	0523	126	ACUTE & SUBACUTE ENDOCARDITIS	290	ACUTE & SUBACUTE ENDOCARDITIS W/O CC/MCC
5	M	0524	127	HEART FAILURE & SHOCK	291	HEART FAILURE & SHOCK W MCC
5	M	0524	127	HEART FAILURE & SHOCK	292	HEART FAILURE & SHOCK W CC
5	M	0524	127	HEART FAILURE & SHOCK	293	HEART FAILURE & SHOCK W/O CC/MCC
5	M	0525	128	DEEP VEIN THROMBOPHLEBITIS	294	DEEP VEIN THROMBOPHLEBITIS W CC/MCC
5	M	0525	128	DEEP VEIN THROMBOPHLEBITIS	295	DEEP VEIN THROMBOPHLEBITIS W/O CC/MCC
5	M	0526	129	CARDIAC ARREST, UNEXPLAINED	296	CARDIAC ARREST, UNEXPLAINED W MCC
5	M	0526	129	CARDIAC ARREST, UNEXPLAINED	297	CARDIAC ARREST, UNEXPLAINED W CC
5	M	0526	129	CARDIAC ARREST, UNEXPLAINED	298	CARDIAC ARREST, UNEXPLAINED W/O CC/MCC
5	M	0527	130	PERIPHERAL VASCULAR DISORDERS W CC	299	PERIPHERAL VASCULAR DISORDERS W MCC
5	M	0527	131	PERIPHERAL VASCULAR DISORDERS W/O CC	300	PERIPHERAL VASCULAR DISORDERS W CC
5	M	0527	131	PERIPHERAL VASCULAR DISORDERS W/O CC	301	PERIPHERAL VASCULAR DISORDERS W/O CC/MCC
5	M	0528	132	ATHEROSCLEROSIS W CC	302	ATHEROSCLEROSIS W MCC
5	M	0528	133	ATHEROSCLEROSIS W/O CC	303	ATHEROSCLEROSIS W/O MCC
5	M	0529	134	HYPERTENSION	304	HYPERTENSION 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
5	M	0529	134	HYPERTENSION	305	HYPERTENSION W/O MCC
5	M	0530	135	CARDIAC CONGENITAL & VALVULAR DISORDERS AGE >17 W CC	306	CARDIAC CONGENITAL & VALVULAR DISORDERS W MCC
5	M	0530	136	CARDIAC CONGENITAL & VALVULAR DISORDERS AGE >17 W/O CC	307	CARDIAC CONGENITAL & VALVULAR DISORDERS W/O MCC
5	M	0530	137	CARDIAC CONGENITAL & VALVULAR DISORDERS AGE 0-17	307	CARDIAC CONGENITAL & VALVULAR DISORDERS W/O MCC
5	M	0531	138	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W CC	308	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W MCC
5	M	0531	139	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W/O CC	310	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS W/O CC/MCC
5	M	0532	140	ANGINA PECTORIS	311	ANGINA PECTORIS
5	M	0533	141	SYNCOPE & COLLAPSE W CC	312	SYNCOPE & COLLAPSE
5	M	0533	142	SYNCOPE & COLLAPSE W/O CC	312	SYNCOPE & COLLAPSE
5	M	0534	143	CHEST PAIN	313	CHEST PAIN
5	M	0535	144	OTHER CIRCULATORY SYSTEM DIAGNOSES W CC	314	OTHER CIRCULATORY SYSTEM DIAGNOSES W MCC
5	M	0535	145	OTHER CIRCULATORY SYSTEM DIAGNOSES W/O CC	315	OTHER CIRCULATORY SYSTEM DIAGNOSES W CC
5	M	0535	145	OTHER CIRCULATORY SYSTEM DIAGNOSES W/O CC	316	OTHER CIRCULATORY SYSTEM DIAGNOSES W/O CC/MCC
5	S	0599	112	PERCUTANEOUS CARDIOVASCULAR PROCEDURES (NO LONGER VALID)		
5	S	0599	514	CARDIAC DEFIB IMPLANT W CARDIAC CATH (NO LONGER VALID)		

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

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
6	S	0601	155	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE >17 W/O CC	326	STOMACH, ESOPHAGEAL & DUODENAL PROC W MCC
6	S	0601	156	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE 0-17	327	STOMACH, ESOPHAGEAL & DUODENAL PROC W CC
6	S	0601	567	STOMACH, ESOPHAGEAL & DUODENAL PROC AGE > 17 W CC W MAJOR GI DX	328	STOMACH, ESOPHAGEAL & DUODENAL PROC W/O CC/MCC
6	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
6	S	0601	154	STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES AGE >17 W CC (NO LONGER VALID)		
6	S	0602	149	MAJOR SMALL & LARGE BOWEL PROCEDURES W/O CC	329	MAJOR SMALL & LARGE BOWEL PROCEDURES W MCC
6	S	0602	569	MAJOR SMALL & LARGE BOWEL PROCEDURES W CC W MAJOR GI DX	330	MAJOR SMALL & LARGE BOWEL PROCEDURES W CC
6	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
6	S	0602	148	MAJOR SMALL & LARGE BOWEL PROCEDURES W CC (NO LONGER VALID)		
6	S	0603	146	RECTAL RESECTION W CC	332	RECTAL RESECTION W MCC
6	S	0603	147	RECTAL RESECTION W/O CC	333	RECTAL RESECTION W CC
6	S	0603	147	RECTAL RESECTION W/O CC	334	RECTAL RESECTION W/O CC/MCC
6	S	0604	150	PERITONEAL ADHESIOLYSIS W CC	335	PERITONEAL ADHESIOLYSIS W MCC
6	S	0604	151	PERITONEAL ADHESIOLYSIS W/O CC	336	PERITONEAL ADHESIOLYSIS W CC
6	S	0604	151	PERITONEAL ADHESIOLYSIS W/O CC	337	PERITONEAL ADHESIOLYSIS 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
6	S	0605	164	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W CC	338	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W MCC
6	S	0605	165	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W/O CC	339	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W CC
6	S	0605	165	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W/O CC	340	APPENDECTOMY W COMPLICATED PRINCIPAL DIAG W/O CC/MCC
6	S	0606	166	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W CC	341	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W MCC
6	S	0606	167	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/O CC	342	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W CC
6	S	0606	167	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/O CC	343	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/O CC/MCC
6	S	0607	152	MINOR SMALL & LARGE BOWEL PROCEDURES W CC	344	MINOR SMALL & LARGE BOWEL PROCEDURES W MCC
6	S	0607	153	MINOR SMALL & LARGE BOWEL PROCEDURES W/O CC	345	MINOR SMALL & LARGE BOWEL PROCEDURES W CC
6	S	0607	153	MINOR SMALL & LARGE BOWEL PROCEDURES W/O CC	346	MINOR SMALL & LARGE BOWEL PROCEDURES W/O CC/MCC
6	S	0608	157	ANAL & STOMAL PROCEDURES W CC	347	ANAL & STOMAL PROCEDURES W MCC
6	S	0608	158	ANAL & STOMAL PROCEDURES W/O CC	348	ANAL & STOMAL PROCEDURES W CC
6	S	0608	158	ANAL & STOMAL PROCEDURES W/O CC	349	ANAL & STOMAL PROCEDURES W/O CC/MCC
6	S	0609	161	INGUINAL & FEMORAL HERNIA PROCEDURES AGE >17 W CC	350	INGUINAL & FEMORAL HERNIA PROCEDURES W MCC
6	S	0609	162	INGUINAL & FEMORAL HERNIA PROCEDURES AGE >17 W/O CC	351	INGUINAL & FEMORAL HERNIA PROCEDURES W CC
6	S	0609	163	HERNIA PROCEDURES AGE 0-17	352	INGUINAL & FEMORAL HERNIA PROCEDURES 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
6	S	0610	159	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL AGE >17 W CC	353	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL W MCC
6	S	0610	160	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL AGE >17 W/O CC	354	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL W CC
6	S	0610	160	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL AGE >17 W/O CC	355	HERNIA PROCEDURES EXCEPT INGUINAL & FEMORAL W/O CC/MCC
6	S	0611	170	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W CC	356	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W MCC
6	S	0611	171	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W/O CC	357	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W CC
6	S	0611	171	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W/O CC	358	OTHER DIGESTIVE SYSTEM O.R. PROCEDURES W/O CC/MCC
6	M	0612	571	MAJOR ESOPHAGEAL DISORDERS	368	MAJOR ESOPHAGEAL DISORDERS W MCC
6	M	0612	571	MAJOR ESOPHAGEAL DISORDERS	369	MAJOR ESOPHAGEAL DISORDERS W CC
6	M	0612	571	MAJOR ESOPHAGEAL DISORDERS	370	MAJOR ESOPHAGEAL DISORDERS W/O CC/MCC
6	M	0613	572	MAJOR GASTROINTESTINAL DISORDERS AND PERITONEAL INFECTIONS	371	MAJOR GASTROINTESTINAL DISORDERS & PERITONEAL INFECTIONS W MCC
6	M	0613	572	MAJOR GASTROINTESTINAL DISORDERS AND PERITONEAL INFECTIONS	372	MAJOR GASTROINTESTINAL DISORDERS & PERITONEAL INFECTIONS W CC
6	M	0613	572	MAJOR GASTROINTESTINAL DISORDERS AND PERITONEAL INFECTIONS	373	MAJOR GASTROINTESTINAL DISORDERS & PERITONEAL INFECTIONS W/O CC/MCC
6	M	0614	172	DIGESTIVE MALIGNANCY W CC	374	DIGESTIVE MALIGNANCY W MCC
6	M	0614	173	DIGESTIVE MALIGNANCY W/O CC	375	DIGESTIVE MALIGNANCY W CC
6	M	0614	173	DIGESTIVE MALIGNANCY W/O CC	376	DIGESTIVE 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
6	M	0615	174	G.I. HEMORRHAGE W CC	377	G.I. HEMORRHAGE W MCC
6	M	0615	175	G.I. HEMORRHAGE W/O CC	378	G.I. HEMORRHAGE W CC
6	M	0615	175	G.I. HEMORRHAGE W/O CC	379	G.I. HEMORRHAGE W/O CC/MCC
6	M	0616	176	COMPLICATED PEPTIC ULCER	380	COMPLICATED PEPTIC ULCER W MCC
6	M	0616	176	COMPLICATED PEPTIC ULCER	381	COMPLICATED PEPTIC ULCER W CC
6	M	0616	176	COMPLICATED PEPTIC ULCER	382	COMPLICATED PEPTIC ULCER W/O CC/MCC
6	M	0617	177	UNCOMPLICATED PEPTIC ULCER W CC	383	UNCOMPLICATED PEPTIC ULCER W MCC
6	M	0617	178	UNCOMPLICATED PEPTIC ULCER W/O CC	384	UNCOMPLICATED PEPTIC ULCER W/O MCC
6	M	0618	179	INFLAMMATORY BOWEL DISEASE	385	INFLAMMATORY BOWEL DISEASE W MCC
6	M	0618	179	INFLAMMATORY BOWEL DISEASE	386	INFLAMMATORY BOWEL DISEASE W CC
6	M	0618	179	INFLAMMATORY BOWEL DISEASE	387	INFLAMMATORY BOWEL DISEASE W/O CC/MCC
6	M	0619	180	G.I. OBSTRUCTION W CC	388	G.I. OBSTRUCTION W MCC
6	M	0619	181	G.I. OBSTRUCTION W/O CC	389	G.I. OBSTRUCTION W CC
6	M	0619	181	G.I. OBSTRUCTION W/O CC	390	G.I. OBSTRUCTION W/O CC/MCC
6	M	0620	182	ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS AGE >17 W CC	391	ESOPHAGITIS, GASTROENT & MISC DIGEST 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
6	M	0620	183	ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS AGE >17 W/O CC	392	ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS W/O MCC
6	M	0620	184	ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS AGE 0-17	392	ESOPHAGITIS, GASTROENT & MISC DIGEST DISORDERS W/O MCC
6	M	0621	188	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE >17 W CC	393	OTHER DIGESTIVE SYSTEM DIAGNOSES W MCC
6	M	0621	189	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE > 17 W/O CC	394	OTHER DIGESTIVE SYSTEM DIAGNOSES W CC
6	M	0621	190	OTHER DIGESTIVE SYSTEM DIAGNOSES AGE 0-17	395	OTHER DIGESTIVE SYSTEM DIAGNOSES W/O CC/MCC
7	S	0701	191	PANCREAS, LIVER & SHUNT PROCEDURES W CC	405	PANCREAS, LIVER & SHUNT PROCEDURES W MCC
7	S	0701	192	PANCREAS, LIVER & SHUNT PROCEDURES W/O CC	406	PANCREAS, LIVER & SHUNT PROCEDURES W CC
7	S	0701	192	PANCREAS, LIVER & SHUNT PROCEDURES W/O CC	407	PANCREAS, LIVER & SHUNT PROCEDURES W/O CC/MCC
7	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
7	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
7	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
7	S	0703	195	CHOLECYSTECTOMY W C.D.E. W CC	411	CHOLECYSTECTOMY W C.D.E. W MCC
7	S	0703	196	CHOLECYSTECTOMY W C.D.E. W/O CC	412	CHOLECYSTECTOMY W C.D.E. W CC
7	S	0703	196	CHOLECYSTECTOMY W C.D.E. W/O CC	413	CHOLECYSTECTOMY W C.D.E. W/O CC/MCC
7	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

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

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
7	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
7	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
7	S	0705	493	LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W CC	417	LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W MCC
7	S	0705	494	LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W CC	418	LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W CC
7	S	0705	494	LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W CC	419	LAPAROSCOPIC CHOLECYSTECTOMY W/O C.D.E. W/O CC/MCC
7	S	0706	199	HEPATOBIILIARY DIAGNOSTIC PROCEDURE FOR MALIGNANCY	420	HEPATOBIILIARY DIAGNOSTIC PROCEDURES W MCC
7	S	0706	200	HEPATOBIILIARY DIAGNOSTIC PROCEDURE FOR NON-MALIGNANCY	421	HEPATOBIILIARY DIAGNOSTIC PROCEDURES W CC
7	S	0706	200	HEPATOBIILIARY DIAGNOSTIC PROCEDURE FOR NON-MALIGNANCY	422	HEPATOBIILIARY DIAGNOSTIC PROCEDURES W/O CC/MCC
7	S	0707	201	OTHER HEPATOBIILIARY OR PANCREAS O.R. PROCEDURES	423	OTHER HEPATOBIILIARY OR PANCREAS O.R. PROCEDURES W MCC
7	S	0707	201	OTHER HEPATOBIILIARY OR PANCREAS O.R. PROCEDURES	424	OTHER HEPATOBIILIARY OR PANCREAS O.R. PROCEDURES W CC
7	S	0707	201	OTHER HEPATOBIILIARY OR PANCREAS O.R. PROCEDURES	425	OTHER HEPATOBIILIARY OR PANCREAS O.R. PROCEDURES W/O CC/MCC
7	M	0708	202	CIRRHOSIS & ALCOHOLIC HEPATITIS	432	CIRRHOSIS & ALCOHOLIC HEPATITIS W MCC
7	M	0708	202	CIRRHOSIS & ALCOHOLIC HEPATITIS	433	CIRRHOSIS & ALCOHOLIC HEPATITIS W CC
7	M	0708	202	CIRRHOSIS & ALCOHOLIC HEPATITIS	434	CIRRHOSIS & ALCOHOLIC HEPATITIS W/O CC/MCC
7	M	0709	203	MALIGNANCY OF HEPATOBIILIARY SYSTEM OR PANCREAS	435	MALIGNANCY OF HEPATOBIILIARY SYSTEM OR PANCREAS 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
7	M	0709	203	MALIGNANCY OF HEPATOBILIARY SYSTEM OR PANCREAS	436	MALIGNANCY OF HEPATOBILIARY SYSTEM OR PANCREAS W CC
7	M	0709	203	MALIGNANCY OF HEPATOBILIARY SYSTEM OR PANCREAS	437	MALIGNANCY OF HEPATOBILIARY SYSTEM OR PANCREAS W/O CC/MCC
7	M	0710	204	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	438	DISORDERS OF PANCREAS EXCEPT MALIGNANCY W MCC
7	M	0710	204	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	439	DISORDERS OF PANCREAS EXCEPT MALIGNANCY W CC
7	M	0710	204	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	440	DISORDERS OF PANCREAS EXCEPT MALIGNANCY W/O CC/MCC
7	M	0711	205	DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W CC	441	DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W MCC
7	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
7	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
7	M	0712	207	DISORDERS OF THE BILIARY TRACT W CC	444	DISORDERS OF THE BILIARY TRACT W MCC
7	M	0712	208	DISORDERS OF THE BILIARY TRACT W/O CC	445	DISORDERS OF THE BILIARY TRACT W CC
7	M	0712	208	DISORDERS OF THE BILIARY TRACT W/O CC	446	DISORDERS OF THE BILIARY TRACT W/O CC/MCC
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/INFECTION OR 9+ FUS 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	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

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	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
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

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	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/NEUROSIM
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
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

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	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

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	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
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 & BURSITIS	557	TENDONITIS, MYOSITIS & BURSITIS W MCC
08	M	0837	248	TENDONITIS, MYOSITIS & BURSITIS	558	TENDONITIS, MYOSITIS & BURSITIS W/O MCC
08	M	0838	249	AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE	559	AFTERCARE, MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE 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	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)		

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	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

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

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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
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

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	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

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

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	623	SKIN GRAFTS & WOUND DEBRID FOR ENDOC, NUTRIT & METAB DIS W CC
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

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

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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
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

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

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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

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

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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
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

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

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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

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

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

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	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	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
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

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

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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

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	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 IMMATURITY OR RESPIRATORY DISTRESS SYNDROME, NEONATE	790	EXTREME IMMATURITY 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
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

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

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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
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

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

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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

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	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
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

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

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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
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

AHRQ Quality Indicators™
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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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		

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

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
20	M	2098	438	NO LONGER VALID		
21	S	2101	440	WOUND DEBRIDEMENTS FOR INJURIES	901	WOUND DEBRIDEMENTS FOR INJURIES W MCC
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

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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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
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

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	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

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MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
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
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

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Patient Safety Indicators (PSI) Parameter Estimates

MDC	M/S	MDRG	CMS DRG	CMS-DRG DESCRIPTION	MS DRG	MS-DRG DESCRIPTION
25	M	2503	490	HIV W OR W/O OTHER RELATED CONDITION	977	HIV W OR W/O OTHER RELATED CONDITION
PR _i	S	7701	103	HEART TRANSPLANT OR IMPLANT OF HEART ASSIST SYSTEM	1	HEART TRANSPLANT OR IMPLANT OF HEART ASSIST SYSTEM W MCC
PR	S	7701	103	HEART TRANSPLANT OR IMPLANT OF HEART ASSIST SYSTEM	2	HEART TRANSPLANT OR IMPLANT OF HEART ASSIST SYSTEM W/O MCC
PR	S	7702	480	LIVER TRANSPLANT AND/OR INTESTINAL TRANSPLANT	5	LIVER TRANSPLANT W MCC OR INTESTINAL TRANSPLANT
PR	S	7702	480	LIVER TRANSPLANT AND/OR INTESTINAL TRANSPLANT	6	LIVER TRANSPLANT W/O MCC
PR	S	7703	495	LUNG TRANSPLANT	7	LUNG TRANSPLANT
PR	S	7704	512	SIMULTANEOUS PANCREAS/KIDNEY TRANSPLANT	8	SIMULTANEOUS PANCREAS/KIDNEY TRANSPLANT
PR	S	7705	481	BONE MARROW TRANSPLANT	9	BONE MARROW TRANSPLANT
PR	S	7705	481	BONE MARROW TRANSPLANT	14	ALLOGENEIC BONE MARROW TRANSPLANT
PR	S	7705	481	BONE MARROW TRANSPLANT	15	AUTOLOGOUS BONE MARROW TRANSPLANT
PR	S	7706	513	PANCREAS TRANSPLANT	10	PANCREAS TRANSPLANT
PR	S	7799	541	ECMO OR TRACH W MV 96+HRS OR PDX EXC FACE, MOUTH & NECK W MAJ O.R.	3	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.	4	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	11	TRACHEOSTOMY FOR FACE,MOUTH & NECK DIAGNOSES W MCC
PR	S	7799	482	TRACHEOSTOMY FOR FACE,MOUTH & NECK DIAGNOSES	12	TRACHEOSTOMY FOR FACE,MOUTH & NECK DIAGNOSES 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
PR	S	7799	482	TRACHEOSTOMY FOR FACE,MOUTH & NECK DIAGNOSES	13	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		
* ₂	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

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

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
TRANSFER	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 TRANSFER=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