



AHRQ Quality Indicators™

PREVENTION QUALITY INDICATORS (PQI) PARAMETER ESTIMATES Version 5.0

Prepared for:

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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

These coefficients are used by the prediction module to calculate risk-adjusted rates that account for differences in patient populations across areas. Covariates that are considered as potential risk adjusters include gender and age and the interaction of gender and age. Descriptions of the population age categories are provided in the Table A.1. 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.

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.

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

AHRQ Quality Indicators™
Prevention Quality Indicators (PQI) Parameter Estimates

Table 1. Risk Adjustment Coefficients for PQI #1 Diabetes Short-Term Complications Admission Rate

PARAMETER	LABEL	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT		1	-8.095823124	0.040865004	39248.12581	<.0001
SEX	Female	1	-0.029835853	0.050336486	0.351326668	0.5534
AGE	Male, Age 18-24	1	1.153787429	0.041710952	765.1585061	<.0001
AGE	Male, Age 25-29	1	0.921928152	0.042314398	474.6984485	<.0001
AGE	Male, Age 30-34	1	0.972184492	0.042289818	528.4765897	<.0001
AGE	Male, Age 35-39	1	0.910111887	0.042498083	458.6177769	<.0001
AGE	Male, Age 40-44	1	0.953962153	0.04232012	508.1226072	<.0001
AGE	Male, Age 45-49	1	0.950406489	0.042289634	505.0692622	<.0001
AGE	Male, Age 50-54	1	0.859377567	0.042373635	411.3169296	<.0001
AGE	Male, Age 55-59	1	0.724169159	0.042755973	286.8708784	<.0001
AGE	Male, Age 60-64	1	0.539162733	0.043524426	153.4523789	<.0001
AGE	Male, Age 65-69	1	0.308512352	0.045107252	46.77915436	<.0001
AGE	Male, Age 70-74	1	0.247392718	0.047197239	27.47518627	<.0001
AGE	Male, Age 75-79	1	0.191194595	0.049939722	14.65746909	0.0001
AGE	Male, Age 80-84	1	0.205054595	0.052966457	14.98777485	0.0001
AGE	Female, Age 18-24	1	0.19812711	0.05162821	14.72697941	0.0001
AGE	Female, Age 25-29	1	0.069549461	0.052662982	1.744121109	0.1866
AGE	Female, Age 30-34	1	-0.186209546	0.052918115	12.38212424	0.0004
AGE	Female, Age 35-39	1	-0.160620394	0.053230958	9.104850203	0.0025
AGE	Female, Age 40-44	1	-0.212492672	0.052984537	16.08383568	<.0001
AGE	Female, Age 45-49	1	-0.208646499	0.052908099	15.55170056	<.0001
AGE	Female, Age 50-54	1	-0.152462297	0.05295732	8.288442268	0.004
AGE	Female, Age 55-59	1	-0.065466386	0.053436724	1.500918364	0.2205
AGE	Female, Age 60-64	1	-0.039347596	0.054583751	0.519648459	0.471
AGE	Female, Age 65-69	1	0.021955146	0.056816386	0.14932256	0.6992
AGE	Female, Age 70-74	1	0.038969825	0.059672752	0.426485986	0.5137
AGE	Female, Age 75-79	1	0.100016046	0.062931947	2.525788745	0.112
AGE	Female, Age 80-84	1	0.014195384	0.066807186	0.045148976	0.8317

c-statistic=0.544

Table 2. Risk Adjustment Coefficients for PQI #2 Perforated Appendix Admission Rate

PARAMETER	LABEL	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT		1	0.235250706	0.059307939	15.73389376	<.0001
SEX	Female	1	0.062396953	0.078755498	0.627718613	0.4282
AGE	Male, Age 18-24	1	-1.526225183	0.061922202	607.4974433	<.0001
AGE	Male, Age 25-29	1	-1.47770729	0.063628779	539.3487208	<.0001
AGE	Male, Age 30-34	1	-1.383183363	0.063780137	470.3147653	<.0001
AGE	Male, Age 35-39	1	-1.165812938	0.064117162	330.6048013	<.0001
AGE	Male, Age 40-44	1	-0.918391744	0.06381361	207.1234681	<.0001
AGE	Male, Age 45-49	1	-0.691750805	0.063772058	117.66261	<.0001
AGE	Male, Age 50-54	1	-0.447623241	0.063804761	49.21744683	<.0001
AGE	Male, Age 55-59	1	-0.262902236	0.06444517	16.64208784	<.0001
AGE	Male, Age 60-64	1	-0.193115021	0.065450452	8.705762425	0.0032
AGE	Male, Age 65-69	1	-0.107457137	0.066729097	2.593224029	0.1073
AGE	Male, Age 70-74	1	-0.082006508	0.069474802	1.393291535	0.2379
AGE	Male, Age 75-79	1	0.04161145	0.073878308	0.317242826	0.5733
AGE	Male, Age 80-84	1	-0.048539976	0.078741681	0.380005383	0.5376
AGE	Female, Age 18-24	1	-0.461891428	0.084019067	30.22206205	<.0001
AGE	Female, Age 25-29	1	-0.42213097	0.087082134	23.49829255	<.0001
AGE	Female, Age 30-34	1	-0.387664326	0.0871416	19.79067529	<.0001
AGE	Female, Age 35-39	1	-0.391200951	0.087317125	20.07247622	<.0001
AGE	Female, Age 40-44	1	-0.464899246	0.086578388	28.83358844	<.0001
AGE	Female, Age 45-49	1	-0.38285634	0.085848169	19.88884722	<.0001
AGE	Female, Age 50-54	1	-0.377305948	0.085460212	19.49213315	<.0001
AGE	Female, Age 55-59	1	-0.412995318	0.086359201	22.87036105	<.0001
AGE	Female, Age 60-64	1	-0.262391348	0.087745332	8.942335934	0.0028
AGE	Female, Age 65-69	1	-0.298978633	0.089679189	11.11467993	0.0009
AGE	Female, Age 70-74	1	-0.282843019	0.094039762	9.046235404	0.0026
AGE	Female, Age 75-79	1	-0.313482025	0.100262786	9.775652382	0.0018
AGE	Female, Age 80-84	1	-0.167331383	0.106269075	2.479368047	0.1153

c-statistic=0.544

Table 3. Risk Adjustment Coefficients for PQI #3 Diabetes Long-Term Complications Admission Rate

PARAMETER	LABEL	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT		1	-5.797711925	0.012986932	199296.7233	<.0001
SEX	Female	1	-0.384716626	0.017112322	505.4334843	<.0001
AGE	Male, Age 18-24	1	-3.74172975	0.033242388	12669.52729	<.0001
AGE	Male, Age 25-29	1	-2.59293091	0.02398446	11687.50982	<.0001
AGE	Male, Age 30-34	1	-2.006654467	0.020062647	10003.88549	<.0001
AGE	Male, Age 35-39	1	-1.632933123	0.018507435	7784.743659	<.0001
AGE	Male, Age 40-44	1	-1.214978584	0.016584931	5366.732254	<.0001
AGE	Male, Age 45-49	1	-0.888910543	0.01560782	3243.63227	<.0001
AGE	Male, Age 50-54	1	-0.625021524	0.014980577	1740.735741	<.0001
AGE	Male, Age 55-59	1	-0.441633081	0.014824199	887.5252272	<.0001
AGE	Male, Age 60-64	1	-0.371898328	0.014996693	614.9749885	<.0001
AGE	Male, Age 65-69	1	-0.283510462	0.015333993	341.8437698	<.0001
AGE	Male, Age 70-74	1	-0.142452132	0.015866597	80.60654994	<.0001
AGE	Male, Age 75-79	1	-0.027934829	0.016499812	2.866381914	0.0904
AGE	Male, Age 80-84	1	0.075844539	0.017297535	19.22561296	<.0001
AGE	Female, Age 18-24	1	1.011885427	0.041870426	584.0471817	<.0001
AGE	Female, Age 25-29	1	0.695418169	0.03171277	480.8656042	<.0001
AGE	Female, Age 30-34	1	0.398786901	0.027549178	209.5388059	<.0001
AGE	Female, Age 35-39	1	0.222053015	0.025883699	73.59709677	<.0001
AGE	Female, Age 40-44	1	0.056207296	0.023353268	5.792820292	0.0161
AGE	Female, Age 45-49	1	-0.041960381	0.02190888	3.668077408	0.0555
AGE	Female, Age 50-54	1	-0.141059977	0.020960571	45.28990213	<.0001
AGE	Female, Age 55-59	1	-0.159282898	0.020654368	59.47226607	<.0001
AGE	Female, Age 60-64	1	-0.065524813	0.020738768	9.982645684	0.0016
AGE	Female, Age 65-69	1	-0.016799031	0.021171259	0.629614992	0.4275
AGE	Female, Age 70-74	1	0.023814451	0.021840993	1.188875595	0.2756
AGE	Female, Age 75-79	1	0.085515898	0.022491034	14.45689048	0.0001
AGE	Female, Age 80-84	1	0.027531903	0.023485378	1.374286749	0.2411

c-statistic=0.544

Table 4. Risk Adjustment Coefficients for PQI #5 Chronic Obstructive Pulmonary Disease (COPD) or Asthma in Older Adults Admission Rate

PARAMETER	LABEL	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT		1	-4.288474156	0.006171407	482877.8158	<.0001
SEX	Female	1	-0.163879623	0.007779547	443.752988	<.0001
AGE	Male, Age 40-44	1	-2.857080531	0.012632396	51153.28478	<.0001
AGE	Male, Age 45-49	1	-2.262958907	0.010177276	49441.34216	<.0001
AGE	Male, Age 50-54	1	-1.764378517	0.008755585	40608.14909	<.0001
AGE	Male, Age 55-59	1	-1.398623324	0.008220991	28943.64253	<.0001
AGE	Male, Age 60-64	1	-1.126788523	0.008041246	19635.32908	<.0001
AGE	Male, Age 65-69	1	-0.731047364	0.007827841	8721.818458	<.0001
AGE	Male, Age 70-74	1	-0.383683249	0.007860101	2382.810341	<.0001
AGE	Male, Age 75-79	1	-0.17330926	0.008063819	461.9149424	<.0001
AGE	Male, Age 80-84	1	-0.027876505	0.008411133	10.98417936	0.0009
AGE	Female, Age 40-44	1	0.937780715	0.015412851	3702.001777	<.0001
AGE	Female, Age 45-49	1	0.84295629	0.012593139	4480.661295	<.0001
AGE	Female, Age 50-54	1	0.729380266	0.01096731	4422.906965	<.0001
AGE	Female, Age 55-59	1	0.54909231	0.010438249	2767.167237	<.0001
AGE	Female, Age 60-64	1	0.445465055	0.010275933	1879.250909	<.0001
AGE	Female, Age 65-69	1	0.36997819	0.010034027	1359.570448	<.0001
AGE	Female, Age 70-74	1	0.302469135	0.010089102	898.7876863	<.0001
AGE	Female, Age 75-79	1	0.223301218	0.01036347	464.2712158	<.0001
AGE	Female, Age 80-84	1	0.124385652	0.010795672	132.7520359	<.0001

c-statistic=0.544

Table 5. Risk Adjustment Coefficients for PQI #7 Hypertension Admission Rate

PARAMETER	LABEL	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT		1	-6.540507947	0.018798074	121058.7663	<.0001
SEX	Female	1	0.719927442	0.020976044	1177.959334	<.0001
AGE	Male, Age 18-24	1	-4.182353525	0.058402778	5128.312448	<.0001
AGE	Male, Age 25-29	1	-2.955957712	0.039769378	5524.574504	<.0001
AGE	Male, Age 30-34	1	-2.135916543	0.030206454	4999.989158	<.0001
AGE	Male, Age 35-39	1	-1.523353275	0.026089989	3409.207855	<.0001
AGE	Male, Age 40-44	1	-1.106414743	0.023533429	2210.372636	<.0001
AGE	Male, Age 45-49	1	-0.909508347	0.022670438	1609.509617	<.0001
AGE	Male, Age 50-54	1	-0.830970313	0.022295132	1389.155653	<.0001
AGE	Male, Age 55-59	1	-0.766709987	0.022397255	1171.851684	<.0001
AGE	Male, Age 60-64	1	-0.806006353	0.023136605	1213.605818	<.0001
AGE	Male, Age 65-69	1	-0.774172178	0.024100431	1031.871194	<.0001
AGE	Male, Age 70-74	1	-0.573379329	0.024921943	529.3224051	<.0001
AGE	Male, Age 75-79	1	-0.41132053	0.025913997	251.9370106	<.0001
AGE	Male, Age 80-84	1	-0.235116413	0.02694869	76.11856332	<.0001
AGE	Female, Age 18-24	1	-0.547258765	0.07869011	48.36655462	<.0001
AGE	Female, Age 25-29	1	-0.700413023	0.05390685	168.8186856	<.0001
AGE	Female, Age 30-34	1	-0.833662449	0.040373663	426.3675683	<.0001
AGE	Female, Age 35-39	1	-0.920639601	0.034130017	727.6227839	<.0001
AGE	Female, Age 40-44	1	-0.901741382	0.029636068	925.8120781	<.0001
AGE	Female, Age 45-49	1	-0.815600674	0.027810187	860.0968013	<.0001
AGE	Female, Age 50-54	1	-0.754342605	0.026962722	782.7260589	<.0001
AGE	Female, Age 55-59	1	-0.701914487	0.02693046	679.3301228	<.0001
AGE	Female, Age 60-64	1	-0.545254358	0.02761315	389.9118059	<.0001
AGE	Female, Age 65-69	1	-0.348297544	0.028428828	150.1007728	<.0001
AGE	Female, Age 70-74	1	-0.230515097	0.029108487	62.71327606	<.0001
AGE	Female, Age 75-79	1	-0.063594486	0.029797099	4.55502712	0.0328
AGE	Female, Age 80-84	1	0.021033902	0.030586037	0.472926109	0.4916

c-statistic=0.544

Table 6. Risk Adjustment Coefficients for PQI #8 Heart Failure Admission Rate

PARAMETER	LABEL	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT		1	-3.244568308	0.003753116	747359.8686	<.0001
SEX	Female	1	-0.184516022	0.004741718	1514.246869	<.0001
AGE	Male, Age 18-24	1	-6.683546172	0.037352729	32016.15916	<.0001
AGE	Male, Age 25-29	1	-5.586346912	0.025406242	48347.60111	<.0001
AGE	Male, Age 30-34	1	-4.841518346	0.017999158	72353.37025	<.0001
AGE	Male, Age 35-39	1	-4.253305554	0.014143087	90440.87051	<.0001
AGE	Male, Age 40-44	1	-3.736798785	0.010826365	119133.5566	<.0001
AGE	Male, Age 45-49	1	-3.280302887	0.008824104	138193.2071	<.0001
AGE	Male, Age 50-54	1	-2.853573019	0.007378254	149579.0599	<.0001
AGE	Male, Age 55-59	1	-2.504663431	0.006742592	137989.1658	<.0001
AGE	Male, Age 60-64	1	-2.169463931	0.006374076	115843.1477	<.0001
AGE	Male, Age 65-69	1	-1.797937737	0.006148722	85502.63869	<.0001
AGE	Male, Age 70-74	1	-1.364307244	0.006029489	51199.23021	<.0001
AGE	Male, Age 75-79	1	-0.957434662	0.005916301	26188.93244	<.0001
AGE	Male, Age 80-84	1	-0.535560391	0.005792222	8549.220013	<.0001
AGE	Female, Age 18-24	1	-0.011826076	0.056249794	0.044201749	0.8335
AGE	Female, Age 25-29	1	-0.130513601	0.039279238	11.04041603	0.0009
AGE	Female, Age 30-34	1	-0.354224267	0.029448594	144.6863289	<.0001
AGE	Female, Age 35-39	1	-0.456053938	0.023640733	372.1436047	<.0001
AGE	Female, Age 40-44	1	-0.365811134	0.01738909	442.5477367	<.0001
AGE	Female, Age 45-49	1	-0.339850779	0.013839587	603.0180276	<.0001
AGE	Female, Age 50-54	1	-0.337484848	0.01132427	888.1537282	<.0001
AGE	Female, Age 55-59	1	-0.297895946	0.010077602	873.8054452	<.0001
AGE	Female, Age 60-64	1	-0.196505497	0.009201258	456.0946807	<.0001
AGE	Female, Age 65-69	1	-0.123884725	0.008663751	204.4671676	<.0001
AGE	Female, Age 70-74	1	-0.088986577	0.008337008	113.9274978	<.0001
AGE	Female, Age 75-79	1	-0.048025292	0.007998644	36.0501674	<.0001
AGE	Female, Age 80-84	1	-0.027438259	0.00763992	12.89838872	0.0003

c-statistic=0.544

AHRQ Quality Indicators™
Prevention Quality Indicators (PQI) Parameter Estimates

Table 7. Risk Adjustment Coefficients for PQI #10 Dehydration Admission Rate

PARAMETER	LABEL	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT		1	-4.388587765	0.006479824	458694.0598	<.0001
SEX	Female	1	-0.083708927	0.008053865	108.027634	<.0001
AGE	Male, Age 18-24	1	-3.960292375	0.018077432	47993.34525	<.0001
AGE	Male, Age 25-29	1	-3.816986896	0.019491491	38348.74899	<.0001
AGE	Male, Age 30-34	1	-3.67452616	0.018569829	39154.96887	<.0001
AGE	Male, Age 35-39	1	-3.558058221	0.018251772	38002.8366	<.0001
AGE	Male, Age 40-44	1	-3.314408532	0.015937161	43250.40346	<.0001
AGE	Male, Age 45-49	1	-2.981374625	0.013792374	46725.61577	<.0001
AGE	Male, Age 50-54	1	-2.678647975	0.012167348	48466.25434	<.0001
AGE	Male, Age 55-59	1	-2.416327341	0.011479971	44302.67688	<.0001
AGE	Male, Age 60-64	1	-2.116217193	0.010978647	37155.47754	<.0001
AGE	Male, Age 65-69	1	-1.731639017	0.010539968	26992.0669	<.0001
AGE	Male, Age 70-74	1	-1.321791905	0.010397526	16160.9235	<.0001
AGE	Male, Age 75-79	1	-0.943918922	0.01027057	8446.56896	<.0001
AGE	Male, Age 80-84	1	-0.515045924	0.010003132	2651.062318	<.0001
AGE	Female, Age 18-24	1	0.182736348	0.024897088	53.87071779	<.0001
AGE	Female, Age 25-29	1	0.103456329	0.027262745	14.40041361	0.0001
AGE	Female, Age 30-34	1	0.124669827	0.025701192	23.52968894	<.0001
AGE	Female, Age 35-39	1	0.204704863	0.024746414	68.4276746	<.0001
AGE	Female, Age 40-44	1	0.222487766	0.021435472	107.7323633	<.0001
AGE	Female, Age 45-49	1	0.18570962	0.018549135	100.235479	<.0001
AGE	Female, Age 50-54	1	0.177434813	0.016247176	119.2674366	<.0001
AGE	Female, Age 55-59	1	0.176032251	0.015221913	133.7352899	<.0001
AGE	Female, Age 60-64	1	0.151380118	0.014523672	108.63877	<.0001
AGE	Female, Age 65-69	1	0.153026695	0.013849195	122.0914707	<.0001
AGE	Female, Age 70-74	1	0.122514413	0.013602771	81.11843799	<.0001
AGE	Female, Age 75-79	1	0.143140829	0.01324105	116.8643847	<.0001
AGE	Female, Age 80-84	1	0.094107624	0.012747859	54.4973135	<.0001

c-statistic=0.544

AHRQ Quality Indicators™
Prevention Quality Indicators (PQI) Parameter Estimates

Table 8. Risk Adjustment Coefficients for PQI #11 Bacterial Pneumonia Admission Rate

PARAMETER	LABEL	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT		1	-3.580666273	0.004392358	664556.8927	<.0001
SEX	Female	1	-0.311688276	0.005685991	3004.89037	<.0001
AGE	Male, Age 18-24	1	-4.461336729	0.015128498	86963.77353	<.0001
AGE	Male, Age 25-29	1	-4.284916282	0.016120686	70650.88848	<.0001
AGE	Male, Age 30-34	1	-4.007658802	0.014413286	77313.52026	<.0001
AGE	Male, Age 35-39	1	-3.797753166	0.013576483	78249.02102	<.0001
AGE	Male, Age 40-44	1	-3.524502803	0.011661167	91350.66645	<.0001
AGE	Male, Age 45-49	1	-3.151793543	0.0098865	101631.9866	<.0001
AGE	Male, Age 50-54	1	-2.848754571	0.008684642	107598.494	<.0001
AGE	Male, Age 55-59	1	-2.54707867	0.008063165	99786.92571	<.0001
AGE	Male, Age 60-64	1	-2.267830622	0.007755695	85502.7008	<.0001
AGE	Male, Age 65-69	1	-1.842169454	0.007338273	63018.99048	<.0001
AGE	Male, Age 70-74	1	-1.359683709	0.007081055	36870.57461	<.0001
AGE	Male, Age 75-79	1	-0.929090017	0.006893862	18163.12126	<.0001
AGE	Male, Age 80-84	1	-0.515494552	0.006757895	5818.690601	<.0001
AGE	Female, Age 18-24	1	0.419782936	0.020951049	401.4560737	<.0001
AGE	Female, Age 25-29	1	0.458486674	0.022054589	432.1708891	<.0001
AGE	Female, Age 30-34	1	0.491967248	0.019476378	638.0518946	<.0001
AGE	Female, Age 35-39	1	0.521466944	0.018175946	823.1130979	<.0001
AGE	Female, Age 40-44	1	0.513475818	0.015601772	1083.158877	<.0001
AGE	Female, Age 45-49	1	0.448740989	0.01333096	1133.100964	<.0001
AGE	Female, Age 50-54	1	0.451725401	0.011640167	1506.019654	<.0001
AGE	Female, Age 55-59	1	0.346498898	0.010936011	1003.889317	<.0001
AGE	Female, Age 60-64	1	0.30131775	0.010543184	816.7814542	<.0001
AGE	Female, Age 65-69	1	0.240464325	0.010007141	577.4059899	<.0001
AGE	Female, Age 70-74	1	0.164849749	0.009668173	290.7286261	<.0001
AGE	Female, Age 75-79	1	0.093632122	0.009380269	99.63665392	<.0001
AGE	Female, Age 80-84	1	0.032460394	0.00908408	12.76867156	0.0004
c-statistic=0.544	

Table 9. Risk Adjustment Coefficients for PQI #12 Urinary Tract Infection Admission Rate

PARAMETER	LABEL	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT		1	-4.322704474	0.006275082	474539.471	<.0001
SEX	Female	1	0.512748273	0.007171079	5112.572306	<.0001
AGE	Male, Age 18-24	1	-4.99054967	0.02804004	31676.66838	<.0001
AGE	Male, Age 25-29	1	-4.638081937	0.027537334	28368.28368	<.0001
AGE	Male, Age 30-34	1	-4.396553951	0.024957919	31031.88001	<.0001
AGE	Male, Age 35-39	1	-4.227122755	0.023903691	31272.2988	<.0001
AGE	Male, Age 40-44	1	-4.040025616	0.021196092	36329.26758	<.0001
AGE	Male, Age 45-49	1	-3.763982194	0.018513167	41336.50046	<.0001
AGE	Male, Age 50-54	1	-3.416795107	0.015714077	47278.10924	<.0001
AGE	Male, Age 55-59	1	-3.07717085	0.014213432	46871.11535	<.0001
AGE	Male, Age 60-64	1	-2.673511417	0.012946624	42643.32415	<.0001
AGE	Male, Age 65-69	1	-2.202520317	0.011951197	33963.86195	<.0001
AGE	Male, Age 70-74	1	-1.621162022	0.011080241	21406.93291	<.0001
AGE	Male, Age 75-79	1	-1.087843804	0.010391219	10959.73678	<.0001
AGE	Male, Age 80-84	1	-0.590234015	0.00989879	3555.365512	<.0001
AGE	Female, Age 18-24	1	1.880657786	0.029493313	4066.047411	<.0001
AGE	Female, Age 25-29	1	1.420081607	0.029621619	2298.312173	<.0001
AGE	Female, Age 30-34	1	1.133894291	0.027356304	1718.028193	<.0001
AGE	Female, Age 35-39	1	0.973148159	0.026518639	1346.652306	<.0001
AGE	Female, Age 40-44	1	0.81134853	0.023861268	1156.186403	<.0001
AGE	Female, Age 45-49	1	0.607456924	0.021253465	816.9049058	<.0001
AGE	Female, Age 50-54	1	0.345710421	0.018542565	347.6044605	<.0001
AGE	Female, Age 55-59	1	0.20638259	0.016991193	147.5361217	<.0001
AGE	Female, Age 60-64	1	0.091437148	0.015627663	34.23396841	<.0001
AGE	Female, Age 65-69	1	0.073077758	0.014374901	25.84405672	<.0001
AGE	Female, Age 70-74	1	0.011893216	0.013300293	0.79960637	0.3712
AGE	Female, Age 75-79	1	0.038083581	0.012298411	9.589094262	0.002
AGE	Female, Age 80-84	1	0.026667421	0.011567376	5.314865719	0.0211

c-statistic=0.544

AHRQ Quality Indicators™
Prevention Quality Indicators (PQI) Parameter Estimates

Table 10. Risk Adjustment Coefficients for PQI #13 Angina Without Procedure Admission Rate

PARAMETER	LABEL	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT		1	-7.617739544	0.032182378	56029.40058	<.0001
SEX	Female	1	-0.037629952	0.039694158	0.898698785	0.3431
AGE	Male, Age 18-24	1	-4.925022699	0.141080464	1218.660441	<.0001
AGE	Male, Age 25-29	1	-4.081234781	0.110213016	1371.252358	<.0001
AGE	Male, Age 30-34	1	-3.215535535	0.076594456	1762.430307	<.0001
AGE	Male, Age 35-39	1	-2.353175134	0.056907309	1709.906664	<.0001
AGE	Male, Age 40-44	1	-1.602802637	0.044743522	1283.216004	<.0001
AGE	Male, Age 45-49	1	-1.195370721	0.040776915	859.3626784	<.0001
AGE	Male, Age 50-54	1	-0.894129797	0.038533494	538.4239282	<.0001
AGE	Male, Age 55-59	1	-0.789723601	0.038481714	421.1544659	<.0001
AGE	Male, Age 60-64	1	-0.735301784	0.039154659	352.666607	<.0001
AGE	Male, Age 65-69	1	-0.671365318	0.040471008	275.1881711	<.0001
AGE	Male, Age 70-74	1	-0.522568201	0.042216009	153.2257008	<.0001
AGE	Male, Age 75-79	1	-0.317851986	0.043423807	53.57893386	<.0001
AGE	Male, Age 80-84	1	-0.253909884	0.04636502	29.99012741	<.0001
AGE	Female, Age 18-24	1	-0.841717296	0.260878407	10.41013202	0.0013
AGE	Female, Age 25-29	1	-0.427647484	0.175695027	5.924516396	0.0149
AGE	Female, Age 30-34	1	-0.353292794	0.116622541	9.177080892	0.0025
AGE	Female, Age 35-39	1	-0.366403606	0.084006813	19.02350152	<.0001
AGE	Female, Age 40-44	1	-0.23556483	0.061630158	14.60946574	0.0001
AGE	Female, Age 45-49	1	-0.148998732	0.054238977	7.546440902	0.006
AGE	Female, Age 50-54	1	-0.147488966	0.050451951	8.546004669	0.0035
AGE	Female, Age 55-59	1	-0.144531123	0.05023063	8.279145335	0.004
AGE	Female, Age 60-64	1	-0.051485946	0.050725886	1.030191832	0.3101
AGE	Female, Age 65-69	1	0.079218434	0.051921336	2.327881076	0.1271
AGE	Female, Age 70-74	1	0.125454507	0.053879648	5.42154458	0.0199
AGE	Female, Age 75-79	1	0.079167606	0.055363997	2.044749646	0.1527
AGE	Female, Age 80-84	1	0.10253717	0.058380806	3.084767852	0.079

c-statistic=0.544

Table 11. Risk Adjustment Coefficients for PQI #14 Uncontrolled Diabetes Admission Rate

PARAMETER	LABEL	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT		1	-7.931420642	0.037642257	44396.69742	<.0001
SEX	Female	1	-0.233794644	0.048120538	23.60522632	<.0001
AGE	Male, Age 18-24	1	-2.137421853	0.054833984	1519.43065	<.0001
AGE	Male, Age 25-29	1	-1.617019493	0.052064292	964.6073868	<.0001
AGE	Male, Age 30-34	1	-1.338765619	0.049286183	737.834116	<.0001
AGE	Male, Age 35-39	1	-1.124614862	0.047952081	550.0380385	<.0001
AGE	Male, Age 40-44	1	-0.797908657	0.044813649	317.0193252	<.0001
AGE	Male, Age 45-49	1	-0.60836553	0.043520957	195.4034909	<.0001
AGE	Male, Age 50-54	1	-0.528191372	0.042932575	151.3591646	<.0001
AGE	Male, Age 55-59	1	-0.478189417	0.043162862	122.7381173	<.0001
AGE	Male, Age 60-64	1	-0.526351115	0.044375805	140.6885037	<.0001
AGE	Male, Age 65-69	1	-0.477602763	0.045780136	108.837735	<.0001
AGE	Male, Age 70-74	1	-0.267984831	0.046998342	32.51287271	<.0001
AGE	Male, Age 75-79	1	-0.246116961	0.049993398	24.23582326	<.0001
AGE	Male, Age 80-84	1	-0.058284716	0.051676261	1.272117456	0.2594
AGE	Female, Age 18-24	1	0.399800729	0.072910353	30.06829188	<.0001
AGE	Female, Age 25-29	1	0.02093052	0.07248504	0.083380264	0.7728
AGE	Female, Age 30-34	1	-0.076758434	0.068692356	1.248634662	0.2638
AGE	Female, Age 35-39	1	-0.086045712	0.066373895	1.680598029	0.1948
AGE	Female, Age 40-44	1	-0.094448959	0.060985543	2.398504586	0.1215
AGE	Female, Age 45-49	1	0.056012628	0.057881093	0.936479869	0.3332
AGE	Female, Age 50-54	1	0.19381225	0.056296245	11.85232602	0.0006
AGE	Female, Age 55-59	1	0.142321426	0.056758098	6.287599938	0.0122
AGE	Female, Age 60-64	1	0.208785561	0.058212471	12.86378726	0.0003
AGE	Female, Age 65-69	1	0.26642419	0.059863877	19.8069512	<.0001
AGE	Female, Age 70-74	1	0.23962623	0.061452121	15.20529875	<.0001
AGE	Female, Age 75-79	1	0.367159703	0.064351652	32.55297014	<.0001
AGE	Female, Age 80-84	1	0.211026735	0.066721775	10.00321896	0.0016

c-statistic=0.544

Table 12. Risk Adjustment Coefficients for PQI #15 Asthma in Younger Adults Admission Rate

PARAMETER	LABEL	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT		1	-7.869342357	0.016416339	229786.3547	<.0001
SEX	Female	1	0.900605183	0.019453541	2143.243665	<.0001
AGE	Male, Age 18-24	1	-0.300116009	0.022528769	177.4611997	<.0001
AGE	Male, Age 25-29	1	-0.287749587	0.024319583	139.996502	<.0001
AGE	Male, Age 30-34	1	-0.161875196	0.023724359	46.55556904	<.0001
AGE	Female, Age 18-24	1	-0.383529935	0.027662515	192.2273584	<.0001
AGE	Female, Age 25-29	1	-0.239134212	0.029516322	65.63854359	<.0001
AGE	Female, Age 30-34	1	-0.098825932	0.028362586	12.14088055	0.0005

c-statistic=0.544

Table 13. Risk Adjustment Coefficients for PQI #16 Lower-Extremity Amputation Among Patients With Diabetes

PARAMETER	LABEL	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT		1	-7.537084247	0.030911635	59451.49425	<.0001
SEX	Female	1	-0.629901184	0.043078616	213.8067293	<.0001
AGE	Male, Age 18-24	1	-6.778736478	0.334761698	410.0397673	<.0001
AGE	Male, Age 25-29	1	-4.086162758	0.106096157	1483.310323	<.0001
AGE	Male, Age 30-34	1	-3.291365122	0.07591626	1879.673928	<.0001
AGE	Male, Age 35-39	1	-2.420683665	0.055941924	1872.411395	<.0001
AGE	Male, Age 40-44	1	-1.759683595	0.044702644	1549.53985	<.0001
AGE	Male, Age 45-49	1	-1.160107524	0.038909753	888.9545324	<.0001
AGE	Male, Age 50-54	1	-0.696963709	0.03599659	374.8846078	<.0001
AGE	Male, Age 55-59	1	-0.375562124	0.035028545	114.9527526	<.0001
AGE	Male, Age 60-64	1	-0.187839593	0.034943371	28.89646186	<.0001
AGE	Male, Age 65-69	1	-0.00897374	0.03524387	0.064830561	0.799
AGE	Male, Age 70-74	1	0.156658961	0.036123515	18.80747477	<.0001
AGE	Male, Age 75-79	1	0.194936081	0.037753365	26.66079728	<.0001
AGE	Male, Age 80-84	1	0.177407902	0.040292789	19.38613605	<.0001
AGE	Female, Age 18-24	1	0.563147845	0.487212796	1.336003146	0.2477
AGE	Female, Age 25-29	1	-0.006412595	0.179322878	0.001278781	0.9715
AGE	Female, Age 30-34	1	-0.055628978	0.127576882	0.190133305	0.6628
AGE	Female, Age 35-39	1	-0.174878707	0.094131438	3.451472983	0.0632
AGE	Female, Age 40-44	1	-0.185246866	0.072316389	6.561879835	0.0104
AGE	Female, Age 45-49	1	-0.213279529	0.060690471	12.34972614	0.0004
AGE	Female, Age 50-54	1	-0.337530728	0.055300514	37.25360404	<.0001
AGE	Female, Age 55-59	1	-0.35938497	0.053044058	45.90355624	<.0001
AGE	Female, Age 60-64	1	-0.287650179	0.052270989	30.28362512	<.0001
AGE	Female, Age 65-69	1	-0.225226974	0.052405803	18.47064406	<.0001
AGE	Female, Age 70-74	1	-0.244236468	0.054000545	20.45618959	<.0001
AGE	Female, Age 75-79	1	-0.145380862	0.055903058	6.763061746	0.0093
AGE	Female, Age 80-84	1	-0.097238177	0.058945214	2.721300668	0.099

c-statistic=0.544

Table 14. PQI#14 Uncontrolled Diabetes Admission Rate

PARAMETER	LABEL	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT		1	-2.096304397	0.002284465	842053.6283	<.0001
SEX	Female	1	-0.077677032	0.00282922	753.7923834	<.0001
AGE	Male, Age 18-24	1	-4.074213601	0.006130744	441632.7441	<.0001
AGE	Male, Age 25-29	1	-3.94656948	0.006651991	351994.7228	<.0001
AGE	Male, Age 30-34	1	-3.669772805	0.005986993	375716.9725	<.0001
AGE	Male, Age 35-39	1	-3.432357302	0.005598886	375821.6206	<.0001
AGE	Male, Age 40-44	1	-3.067446093	0.004704059	425214.8464	<.0001
AGE	Male, Age 45-49	1	-2.717160857	0.004109934	437080.0236	<.0001
AGE	Male, Age 50-54	1	-2.403010976	0.003677014	427091.4551	<.0001
AGE	Male, Age 55-59	1	-2.134875329	0.003500154	372023.8954	<.0001
AGE	Male, Age 60-64	1	-1.897856116	0.003437314	304851.4522	<.0001
AGE	Male, Age 65-69	1	-1.560928891	0.003374236	214000.7545	<.0001
AGE	Male, Age 70-74	1	-1.165671422	0.003367395	119829.6277	<.0001
AGE	Male, Age 75-79	1	-0.815209649	0.003380758	58144.7393	<.0001
AGE	Male, Age 80-84	1	-0.454229196	0.003397259	17876.92796	<.0001
AGE	Female, Age 18-24	1	0.589781854	0.007793805	5726.427318	<.0001
AGE	Female, Age 25-29	1	0.474373127	0.0086064	3038.06562	<.0001
AGE	Female, Age 30-34	1	0.322878249	0.007925481	1659.687506	<.0001
AGE	Female, Age 35-39	1	0.265280556	0.007462781	1263.599607	<.0001
AGE	Female, Age 40-44	1	0.214896738	0.006286803	1168.422493	<.0001
AGE	Female, Age 45-49	1	0.185833316	0.005472093	1153.294547	<.0001
AGE	Female, Age 50-54	1	0.154195598	0.004871123	1002.041574	<.0001
AGE	Female, Age 55-59	1	0.089328296	0.004645149	369.8102033	<.0001
AGE	Female, Age 60-64	1	0.079291209	0.004545178	304.3324197	<.0001
AGE	Female, Age 65-69	1	0.086481838	0.004433372	380.5234492	<.0001
AGE	Female, Age 70-74	1	0.064477572	0.004403286	214.419149	<.0001
AGE	Female, Age 75-79	1	0.0590004	0.004378323	181.5910149	<.0001
AGE	Female, Age 80-84	1	0.02744672	0.004344085	39.91941711	<.0001

c-statistic=0.544

Table 15. PQI #91 - Prevention Quality Acute Composite

PARAMETER	LABEL	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT		1	-2.893874644	0.003199125	818270.9354	<.0001
SEX	Female	1	0.009871052	0.003915052	6.356993087	0.0117
AGE	Male, Age 18-24	1	-4.446516594	0.010686835	173117.7694	<.0001
AGE	Male, Age 25-29	1	-4.2552385	0.011306975	141629.9127	<.0001
AGE	Male, Age 30-34	1	-4.028732806	0.010352414	151444.5689	<.0001
AGE	Male, Age 35-39	1	-3.854480129	0.009910482	151266.2735	<.0001
AGE	Male, Age 40-44	1	-3.603761576	0.008595453	175782.073	<.0001
AGE	Male, Age 45-49	1	-3.256973744	0.007360036	195825.2333	<.0001
AGE	Male, Age 50-54	1	-2.947061265	0.00644023	209399.4491	<.0001
AGE	Male, Age 55-59	1	-2.650344406	0.005985978	196035.3346	<.0001
AGE	Male, Age 60-64	1	-2.343832245	0.005703037	168904.2673	<.0001
AGE	Male, Age 65-69	1	-1.919926653	0.005400755	126374.76	<.0001
AGE	Male, Age 70-74	1	-1.434567857	0.00521202	75758.2665	<.0001
AGE	Male, Age 75-79	1	-0.990886614	0.005062918	38304.1733	<.0001
AGE	Male, Age 80-84	1	-0.547556367	0.004935274	12309.34885	<.0001
AGE	Female, Age 18-24	1	0.898418708	0.012778774	4942.869861	<.0001
AGE	Female, Age 25-29	1	0.708512644	0.013854982	2615.069813	<.0001
AGE	Female, Age 30-34	1	0.584108532	0.012894434	2052.024396	<.0001
AGE	Female, Age 35-39	1	0.537668628	0.012408391	1877.5799	<.0001
AGE	Female, Age 40-44	1	0.457189421	0.010886756	1763.580915	<.0001
AGE	Female, Age 45-49	1	0.336129801	0.00947227	1259.232362	<.0001
AGE	Female, Age 50-54	1	0.265797406	0.008334204	1017.122545	<.0001
AGE	Female, Age 55-59	1	0.183338505	0.007797852	552.7864536	<.0001
AGE	Female, Age 60-64	1	0.13723573	0.007439433	340.2943326	<.0001
AGE	Female, Age 65-69	1	0.110341314	0.007024753	246.7256011	<.0001
AGE	Female, Age 70-74	1	0.06244001	0.006757593	85.37718841	<.0001
AGE	Female, Age 75-79	1	0.059900345	0.006482658	85.37926449	<.0001
AGE	Female, Age 80-84	1	0.032266754	0.006228589	26.83682974	<.0001

c-statistic=0.544

Table 16. PQI #92 - Prevention Quality Chronic Composite

PARAMETER	LABEL	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT		1	-2.80595735	0.003076302	831963.4242	<.0001
SEX	Female	1	-0.156235069	0.003863589	1635.216595	<.0001
AGE	Male, Age 18-24	1	-3.737498888	0.007509972	247676.893	<.0001
AGE	Male, Age 25-29	1	-3.640155822	0.008233284	195476.133	<.0001
AGE	Male, Age 30-34	1	-3.339807608	0.007358281	206010.9032	<.0001
AGE	Male, Age 35-39	1	-3.075060205	0.00682219	203170.0186	<.0001
AGE	Male, Age 40-44	1	-2.666586728	0.005693943	219323.5242	<.0001
AGE	Male, Age 45-49	1	-2.316263665	0.005029002	212135.0238	<.0001
AGE	Male, Age 50-54	1	-2.002190538	0.004550072	193630.6919	<.0001
AGE	Male, Age 55-59	1	-1.746382853	0.004368419	159819.7222	<.0001
AGE	Male, Age 60-64	1	-1.538967442	0.004327985	126440.861	<.0001
AGE	Male, Age 65-69	1	-1.245238989	0.004296359	84004.82209	<.0001
AGE	Male, Age 70-74	1	-0.90443152	0.004335148	43525.47587	<.0001
AGE	Male, Age 75-79	1	-0.621422353	0.004408979	19865.41534	<.0001
AGE	Male, Age 80-84	1	-0.337033884	0.004491051	5631.8507	<.0001
AGE	Female, Age 18-24	1	0.419456633	0.00998398	1765.089558	<.0001
AGE	Female, Age 25-29	1	0.343579791	0.011089449	959.9205453	<.0001
AGE	Female, Age 30-34	1	0.187227586	0.010161138	339.5118601	<.0001
AGE	Female, Age 35-39	1	0.141768099	0.009454536	224.8415442	<.0001
AGE	Female, Age 40-44	1	0.141137343	0.007806555	326.8624753	<.0001
AGE	Female, Age 45-49	1	0.162113208	0.006793151	569.5007783	<.0001
AGE	Female, Age 50-54	1	0.149687725	0.006088111	604.5153253	<.0001
AGE	Female, Age 55-59	1	0.090128445	0.005848159	237.5118837	<.0001
AGE	Female, Age 60-64	1	0.09056263	0.005769174	246.417044	<.0001
AGE	Female, Age 65-69	1	0.107368676	0.005690199	356.0412884	<.0001
AGE	Female, Age 70-74	1	0.09307518	0.005716269	265.1200281	<.0001
AGE	Female, Age 75-79	1	0.076807853	0.005773597	176.9776396	<.0001
AGE	Female, Age 80-84	1	0.033709009	0.005821001	33.53487181	<.0001

c-statistic=0.544

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