



Prevention Quality Indicators (PQI) Parameter Estimates, v2021

Prepared for:

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Executive Summary

This document provides statistical parameters associated with Version 2021 Agency for Healthcare Research and Quality (AHRQ) Quality Indicators™ (QI) Prevention Quality Indicators (PQI). The parameter estimates derived for the AHRQ QI are based on analysis of the 2018 AHRQ Healthcare Cost and Utilization Project (HCUP) State Inpatient Databases (SID).¹

HCUP is a family of healthcare databases and related software tools and products developed through a Federal- State-Industry partnership. 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, Tenth Revision, Clinical Modification/Procedural Classification System (ICD-10-CM/PCS)* diagnoses and procedures, length of stay (LOS), expected payer, admission and discharge dates and discharge disposition. In 2018, the HCUP databases represent more than 97 percent of all annual discharges in the U.S.²

The analytic dataset used to generate the risk adjustment regression models in this document consists of the same hospital discharge records that comprise the reference population for Version 2021 of the AHRQ QI software. This reference population file was limited to community hospitals and excludes rehabilitation and long-term acute care (LTAC) hospitals. Information on the type of hospital was obtained by the American Hospital Association (AHA) Annual Survey of Hospitals. AHA defines community hospitals as “all non-Federal, short-term, general, and other specialty hospitals, excluding hospital units of institutions.” Included among community hospitals are specialty hospitals such as obstetrics-gynecology, ear-nose-throat, orthopedic, and pediatric institutions. Also included are public hospitals and academic medical centers.

The 2018 HCUP SID includes information on all inpatient discharges from hospital in participating States. Discharges from all 48 participating States are used to develop risk-adjustment models for the area-level PDIs. This document is devoted to listing covariates and coefficients for risk adjustment logistic regression models. The regression 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 sex and age and the interaction of sex 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 Healthcare Cost and Utilization Project (HCUP) 2018 State Inpatient Databases (SID). Agency for Healthcare Research and Quality, Rockville, MD.

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

Additional information on the risk adjustment process and composite indicators may be found in Quality Indicator Empirical Methods, available on the AHRQ QI website.

(<http://www.qualityindicators.ahrq.gov/modules/Default.aspx>)

Acknowledgments

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, **Alaska** Department of Health and Social Services, **Arizona** Department of Health Services, **Arkansas** Department of Health, **California** Office of Statewide Health Planning and Development, **Colorado** Hospital Association, **Connecticut** Hospital Association, **Delaware** Division of Public Health, **District of Columbia** Hospital Association, **Florida** Agency for Health Care Administration, **Georgia** Hospital Association, **Hawaii** Laulima Data Alliance, a non-profit subsidiary of the Healthcare Association of Hawaii, **Hawaii** University of Hawaii at Hilo, **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, **Maine** Health Data Organization, **Maryland** Health Services Cost Review Commission, **Massachusetts** Center for Health Information and Analysis, **Michigan** Health & Hospital Association, **Minnesota** Hospital Association (provides data for Minnesota and North Dakota), **Mississippi** State Department of Health, **Missouri** Hospital Industry Data Institute, **Montana** Hospital Association, **Nebraska** Hospital Association, **Nevada** Department of Health and Human Services, **New Hampshire** Department of Health & Human Services, **New Jersey** Department of Health, **New Mexico** Department of Health, **New York** State Department of Health, **North Carolina** Department of Health and Human Services, **North Dakota** (data provided by the Minnesota Hospital Association), **Ohio** Hospital Association, **Oklahoma** State Department of Health, **Oregon** Association of Hospitals and Health Systems, **Oregon** Office of Health Analytics, **Pennsylvania** Health Care Cost Containment Council, **Rhode Island** Department of Health, **South Carolina** Revenue and Fiscal Affairs Office, **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** Department of Health and Human Resources, **Wisconsin** Department of Health Services, **Wyoming** Hospital Association.

Parameter Estimates Tables

Table 1. Risk Adjustment Coefficients for PQI 01 – Diabetes Short-Term Complications Admission Rate

Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT	Intercept	1	-7.843242556	0.0334475709	54987.2657550397	<.0001
SEX	Female	1	-0.0666034708	0.0422169217	2.4889753589	0.1146
AGECAT1	Age 18-24	1	1.0281101292	0.0343354591	896.5893126889	<.0001
AGECAT2	Age 25-29	1	0.9172687451	0.0347230641	697.8420066419	<.0001
AGECAT3	Age 30-34	1	0.8607923077	0.0348917094	608.6284658043	<.0001
AGECAT4	Age 35-39	1	0.9257439678	0.0348536466	705.4810225997	<.0001
AGECAT5	Age 40-44	1	0.8974363359	0.0350384681	656.0199970653	<.0001
AGECAT6	Age 45-49	1	0.9068654971	0.0349546377	673.0946655993	<.0001
AGECAT7	Age 50-54	1	0.8822778798	0.0349897231	635.8135385138	<.0001
AGECAT8	Age 55-59	1	0.7992439540	0.0350604619	519.6649829804	<.0001
AGECAT9	Age 60-64	1	0.6391120810	0.0355110202	323.9125360805	<.0001
AGECAT10	Age 65-69	1	0.4456354501	0.0364409364	149.5479300607	<.0001
AGECAT11	Age 70-74	1	0.3421468096	0.0376699485	82.4963884349	<.0001
AGECAT12	Age 75-79	1	0.2664156868	0.0400522782	44.2450955351	<.0001
AGECAT13	Age 80-84	1	0.2471095094	0.0436994318	31.9762356518	<.0001
FAGECAT1	Female, Age 18-24	1	0.1920409860	0.0435676273	19.4294289381	<.0001
FAGECAT2	Female, Age 25-29	1	0.0789743714	0.0442569994	3.1842592880	0.0744
FAGECAT3	Female, Age 30-34	1	-0.1140683229	0.0447422638	6.4997133575	0.0108
FAGECAT4	Female, Age 35-39	1	-0.1936415227	0.0447558780	18.7196107830	<.0001
FAGECAT5	Female, Age 40-44	1	-0.1835540491	0.0450498169	16.6012916114	<.0001
FAGECAT6	Female, Age 45-49	1	-0.1944566872	0.0449044743	18.7528177758	<.0001
FAGECAT7	Female, Age 50-54	1	-0.1229933491	0.0448485601	7.5208382114	0.0061

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Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
FAGECAT8	Female, Age 55-59	1	-0.1571147394	0.0449843497	12.1986273731	0.0005
FAGECAT9	Female, Age 60-64	1	-0.0588240491	0.0455261556	1.6695055777	0.1963
FAGECAT10	Female, Age 65-69	1	0.0000786048	0.0467952962	0.0000028216	0.9987
FAGECAT11	Female, Age 70-74	1	0.0802617716	0.0483548254	2.7551030234	0.0969
FAGECAT12	Female, Age 75-79	1	0.1301935707	0.0513403407	6.4307493646	0.0112
FAGECAT13	Female, Age 80-84	1	0.0455382942	0.0562442778	0.6555364251	0.4181

c-statistic=0.571

Table 2. Risk Adjustment Coefficients for PQI 03 – Diabetes Long-Term Complications Admission Rate

Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT	Intercept	1	-6.010919423	0.0134081968	200974.5492722440	<.0001
SEX	Female	1	-0.7044159551	0.0195209856	1302.1316199441	<.0001
AGECAT1	Age 18-24	1	-4.327551692	0.0470692832	8452.9706262111	<.0001
AGECAT2	Age 25-29	1	-2.811156651	0.0275299773	10426.9763467685	<.0001
AGECAT3	Age 30-34	1	-2.022152445	0.0214858256	8857.7556130563	<.0001
AGECAT4	Age 35-39	1	-1.474207564	0.0186829019	6226.2793719817	<.0001
AGECAT5	Age 40-44	1	-0.9500363427	0.0170409499	3108.0846592757	<.0001
AGECAT6	Age 45-49	1	-0.5041549085	0.0157319142	1026.9868003714	<.0001
AGECAT7	Age 50-54	1	-0.1911144973	0.0151425462	159.2903437801	<.0001
AGECAT8	Age 55-59	1	0.0208387152	0.0147790660	1.9881442771	0.1585
AGECAT9	Age 60-64	1	0.1032338381	0.0147936051	48.6963154913	<.0001
AGECAT10	Age 65-69	1	0.1219750905	0.0150418055	65.7570558210	<.0001
AGECAT11	Age 70-74	1	0.1254285638	0.0154833160	65.6243389851	<.0001
AGECAT12	Age 75-79	1	0.1773176217	0.0162825289	118.5932797338	<.0001
AGECAT13	Age 80-84	1	0.2107492261	0.0176551666	142.4912964784	<.0001

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Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
FAGECAT1	Female, Age 18-24	1	1.5525954102	0.0577144002	723.6827539590	<.0001
FAGECAT2	Female, Age 25-29	1	1.1344601418	0.0367555930	952.6461489562	<.0001
FAGECAT3	Female, Age 30-34	1	0.5956678169	0.0313745143	360.4576535781	<.0001
FAGECAT4	Female, Age 35-39	1	0.4547217221	0.0277130948	269.2286960675	<.0001
FAGECAT5	Female, Age 40-44	1	0.2980697184	0.0256075764	135.4873533816	<.0001
FAGECAT6	Female, Age 45-49	1	0.1314466072	0.0237966121	30.5118471913	<.0001
FAGECAT7	Female, Age 50-54	1	-0.0146105078	0.0229970940	0.4036311702	0.5252
FAGECAT8	Female, Age 55-59	1	-0.1138530160	0.0224146939	25.8002227649	<.0001
FAGECAT9	Female, Age 60-64	1	-0.0981414628	0.0223592782	19.2659084711	<.0001
FAGECAT10	Female, Age 65-69	1	-0.0605609634	0.0227130158	7.1094490221	0.0077
FAGECAT11	Female, Age 70-74	1	-0.0034895074	0.0233612084	0.0223119560	0.8813
FAGECAT12	Female, Age 75-79	1	-0.0215072420	0.0246676934	0.7601728599	0.3833
FAGECAT13	Female, Age 80-84	1	-0.0305212127	0.0267096351	1.3057729283	0.2532

c-statistic=0.728

Table 3. Risk Adjustment Coefficients for PQI 05 – 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	Intercept	1	-4.781900796	0.0072950863	429675.1657719240	<.0001
SEX	Female	1	-0.0906131395	0.0092469225	96.0257958734	<.0001
AGECAT5	Age 40-44	1	-2.873212022	0.0165668479	30078.4588600837	<.0001
AGECAT6	Age 45-49	1	-2.360190957	0.0134091220	30980.8693068869	<.0001
AGECAT7	Age 50-54	1	-1.629966195	0.0106887491	23254.3086065822	<.0001
AGECAT8	Age 55-59	1	-1.107552395	0.0093903494	13911.2149022795	<.0001
AGECAT9	Age 60-64	1	-0.7875209165	0.0090076006	7643.7408291871	<.0001
AGECAT10	Age 65-69	1	-0.6287661025	0.0090622214	4814.0311955813	<.0001

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Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
AGECAT11	Age 70-74	1	-0.3709957010	0.0090668380	1674.2720953967	<.0001
AGECAT12	Age 75-79	1	-0.1204987028	0.0093354094	166.6088265942	<.0001
AGECAT13	Age 80-84	1	0.0098567709	0.0100455604	0.9627665357	0.3265
FAGECAT5	Female, Age 40-44	1	0.8564299507	0.0202126123	1795.3073181386	<.0001
FAGECAT6	Female, Age 45-49	1	0.8209064431	0.0164905373	2478.0936702107	<.0001
FAGECAT7	Female, Age 50-54	1	0.6152021655	0.0134764931	2083.9242281787	<.0001
FAGECAT8	Female, Age 55-59	1	0.4696061845	0.0119660782	1540.1532724005	<.0001
FAGECAT9	Female, Age 60-64	1	0.3161209742	0.0115724074	746.2067820579	<.0001
FAGECAT10	Female, Age 65-69	1	0.2762628058	0.0116510445	562.2314268230	<.0001
FAGECAT11	Female, Age 70-74	1	0.2693741267	0.0116389160	535.6568849940	<.0001
FAGECAT12	Female, Age 75-79	1	0.2114759711	0.0119908352	311.0449732167	<.0001
FAGECAT13	Female, Age 80-84	1	0.1328031139	0.0129089037	105.8370674209	<.0001

c-statistic=0.682

Table 4. Risk Adjustment Coefficients for PQI 07 – Hypertension Admission Rate

Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT	Intercept	1	-6.510701243	0.0171980527	143316.7605149050	<.0001
SEX	Female	1	0.6968685064	0.0194364763	1285.4838023663	<.0001
AGECAT1	Age 18-24	1	-3.715602103	0.0459947960	6525.9088943024	<.0001
AGECAT2	Age 25-29	1	-2.535993633	0.0319287807	6308.5805036079	<.0001
AGECAT3	Age 30-34	1	-1.837466410	0.0261144566	4950.8165099282	<.0001
AGECAT4	Age 35-39	1	-1.335557681	0.0232074647	3311.8442225094	<.0001
AGECAT5	Age 40-44	1	-0.9745173360	0.0219654214	1968.3397289541	<.0001
AGECAT6	Age 45-49	1	-0.7641171521	0.0209832852	1326.0897852340	<.0001
AGECAT7	Age 50-54	1	-0.6395188199	0.0205733204	966.2686269590	<.0001

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Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
AGECAT8	Age 55-59	1	-0.6092539791	0.0203709029	894.4914458125	<.0001
AGECAT9	Age 60-64	1	-0.6591604830	0.0208153578	1002.8005514909	<.0001
AGECAT10	Age 65-69	1	-0.6583920477	0.0215009416	937.6790057019	<.0001
AGECAT11	Age 70-74	1	-0.6110329592	0.0223911152	744.6939477974	<.0001
AGECAT12	Age 75-79	1	-0.4075718957	0.0233939720	303.5292348581	<.0001
AGECAT13	Age 80-84	1	-0.2049997331	0.0249829306	67.3317382206	<.0001
FAGECAT1	Female, Age 18-24	1	-0.5702380202	0.0622799332	83.8332039689	<.0001
FAGECAT2	Female, Age 25-29	1	-0.6093895625	0.0423337583	207.2127010548	<.0001
FAGECAT3	Female, Age 30-34	1	-0.8229704562	0.0348150922	558.7703965533	<.0001
FAGECAT4	Female, Age 35-39	1	-0.9110751352	0.0303641355	900.2985396235	<.0001
FAGECAT5	Female, Age 40-44	1	-0.9058751212	0.0281409179	1036.2395091004	<.0001
FAGECAT6	Female, Age 45-49	1	-0.9187778192	0.0264389087	1207.6301694114	<.0001
FAGECAT7	Female, Age 50-54	1	-0.9101226247	0.0256539862	1258.6069008141	<.0001
FAGECAT8	Female, Age 55-59	1	-0.8878048174	0.0251707892	1244.0600105298	<.0001
FAGECAT9	Female, Age 60-64	1	-0.7034905954	0.0253448990	770.4340406646	<.0001
FAGECAT10	Female, Age 65-69	1	-0.5130417536	0.0258310432	394.4768592184	<.0001
FAGECAT11	Female, Age 70-74	1	-0.2982612249	0.0265057813	126.6229345881	<.0001
FAGECAT12	Female, Age 75-79	1	-0.1835705346	0.0274058002	44.8663738976	<.0001
FAGECAT13	Female, Age 80-84	1	-0.0349067577	0.0288134105	1.4676743056	0.2257

c-statistic=0.711

Table 5. Risk Adjustment Coefficients for PQI 08 – Heart Failure Admission Rate

Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT	Intercept	1	-3.143085460	0.0033248878	893631.3154338970	<.0001
SEX	Female	1	-0.1954175020	0.0042901273	2074.8492975912	<.0001
AGECAT1	Age 18-24	1	-6.703488349	0.0354385204	35780.8418356962	<.0001
AGECAT2	Age 25-29	1	-5.405085517	0.0212297091	64821.1980084215	<.0001
AGECAT3	Age 30-34	1	-4.559159830	0.0146142221	97323.6136444515	<.0001
AGECAT4	Age 35-39	1	-3.980194603	0.0113574215	122814.3531584850	<.0001
AGECAT5	Age 40-44	1	-3.433746155	0.0092981312	136378.2232954100	<.0001
AGECAT6	Age 45-49	1	-2.969313618	0.0075093026	156355.4171136380	<.0001
AGECAT7	Age 50-54	1	-2.530471661	0.0063503924	158782.2046767860	<.0001
AGECAT8	Age 55-59	1	-2.201576966	0.0056046171	154303.5281550390	<.0001
AGECAT9	Age 60-64	1	-1.924111591	0.0052947661	132058.6819163900	<.0001
AGECAT10	Age 65-69	1	-1.673475744	0.0052084124	103235.2755679050	<.0001
AGECAT11	Age 70-74	1	-1.334586923	0.0050965882	68570.0765032638	<.0001
AGECAT12	Age 75-79	1	-0.9204251882	0.0050994197	32578.8291853276	<.0001
AGECAT13	Age 80-84	1	-0.5042182991	0.0052043572	9386.4855514797	<.0001
FAGECAT1	Female, Age 18-24	1	0.1022987606	0.0519227022	3.8817375715	0.0488
FAGECAT2	Female, Age 25-29	1	-0.0910969176	0.0326786740	7.7710286883	0.0053
FAGECAT3	Female, Age 30-34	1	-0.2106526699	0.0230601684	83.4466655635	<.0001
FAGECAT4	Female, Age 35-39	1	-0.3143785626	0.0182476677	296.8186063959	<.0001
FAGECAT5	Female, Age 40-44	1	-0.3612717150	0.0149569993	583.4168598053	<.0001
FAGECAT6	Female, Age 45-49	1	-0.3917343657	0.0119780994	1069.5658381610	<.0001
FAGECAT7	Female, Age 50-54	1	-0.3876551838	0.0099168379	1528.0753386235	<.0001
FAGECAT8	Female, Age 55-59	1	-0.3480058738	0.0084749103	1686.1760761878	<.0001
FAGECAT9	Female, Age 60-64	1	-0.2697544421	0.0077518744	1210.9431445462	<.0001

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Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
FAGECAT10	Female, Age 65-69	1	-0.1480833714	0.0073814805	402.4626951579	<.0001
FAGECAT11	Female, Age 70-74	1	-0.0764369314	0.0070805716	116.5386156398	<.0001
FAGECAT12	Female, Age 75-79	1	-0.0458828588	0.0069728093	43.2997474053	<.0001
FAGECAT13	Female, Age 80-84	1	-0.0161125411	0.0069836234	5.3231223898	0.0210

c-statistic=0.842

Table 6. Risk Adjustment Coefficients for PQI 11 – Community-Acquired Pneumonia Admission Rate

Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT	Intercept	1	-4.090345440	0.0052046815	617634.6530641190	<.0001
SEX	Female	1	-0.2046346949	0.0067396931	921.8882868164	<.0001
AGECAT1	Age 18-24	1	-4.639858370	0.0208523019	49510.9706018606	<.0001
AGECAT2	Age 25-29	1	-4.335874521	0.0204029162	45161.5583496435	<.0001
AGECAT3	Age 30-34	1	-3.996278659	0.0180123657	49223.2197882649	<.0001
AGECAT4	Age 35-39	1	-3.708724427	0.0160847364	53164.4390506444	<.0001
AGECAT5	Age 40-44	1	-3.448960369	0.0149719792	53066.1982262245	<.0001
AGECAT6	Age 45-49	1	-3.181299037	0.0130826799	59131.0452220671	<.0001
AGECAT7	Age 50-54	1	-2.746312674	0.0109688610	62686.9152617440	<.0001
AGECAT8	Age 55-59	1	-2.380171932	0.0094574764	63338.2596176148	<.0001
AGECAT9	Age 60-64	1	-2.078283190	0.0088173451	55556.3584072386	<.0001
AGECAT10	Age 65-69	1	-1.781416404	0.0085309587	43604.8921683913	<.0001
AGECAT11	Age 70-74	1	-1.373963092	0.0081576869	28367.1735985650	<.0001
AGECAT12	Age 75-79	1	-0.9207917732	0.0080536188	13071.9604436669	<.0001
AGECAT13	Age 80-84	1	-0.5022643054	0.0081902052	3760.7551891602	<.0001
FAGECAT1	Female, Age 18-24	1	0.3805058807	0.0284916443	178.3559977297	<.0001
FAGECAT2	Female, Age 25-29	1	0.3827158525	0.0278193378	189.2602141744	<.0001

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Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
FAGECAT3	Female, Age 30-34	1	0.3767614770	0.0244722293	237.0205035214	<.0001
FAGECAT4	Female, Age 35-39	1	0.3983592997	0.0216406260	338.8521779974	<.0001
FAGECAT5	Female, Age 40-44	1	0.4038288462	0.0200540383	405.5001294678	<.0001
FAGECAT6	Female, Age 45-49	1	0.4163878949	0.0174278949	570.8293890728	<.0001
FAGECAT7	Female, Age 50-54	1	0.3641516835	0.0146867372	614.7718813200	<.0001
FAGECAT8	Female, Age 55-59	1	0.2767829903	0.0127565893	470.7709419712	<.0001
FAGECAT9	Female, Age 60-64	1	0.1937998035	0.0119621416	262.4755070995	<.0001
FAGECAT10	Female, Age 65-69	1	0.1416279312	0.0115871715	149.3973690596	<.0001
FAGECAT11	Female, Age 70-74	1	0.1366070489	0.0110142313	153.8288646700	<.0001
FAGECAT12	Female, Age 75-79	1	0.0570399141	0.0108861044	27.4544493373	<.0001
FAGECAT13	Female, Age 80-84	1	0.0243552229	0.0109679904	4.9309443022	0.0264

c-statistic=0.809

Table 7. Risk Adjustment Coefficients for PQI 12 – Urinary Tract Infection Admission Rate

Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT	Intercept	1	-4.637094471	0.0067943640	465794.4065510090	<.0001
SEX	Female	1	0.5890379934	0.0077842512	5726.0209069707	<.0001
AGECAT1	Age 18-24	1	-5.243757695	0.0365294849	20606.2105594236	<.0001
AGECAT2	Age 25-29	1	-4.927927254	0.0355141155	19254.2483697056	<.0001
AGECAT3	Age 30-34	1	-4.618850756	0.0316731452	21265.9835943470	<.0001
AGECAT4	Age 35-39	1	-4.424802921	0.0294038793	22645.3272603107	<.0001
AGECAT5	Age 40-44	1	-4.155058012	0.0271191427	23474.8199108143	<.0001
AGECAT6	Age 45-49	1	-3.895179353	0.0235346042	27393.0960449916	<.0001
AGECAT7	Age 50-54	1	-3.475845815	0.0194860919	31817.9002437572	<.0001
AGECAT8	Age 55-59	1	-3.102477665	0.0163553849	35982.8690018035	<.0001

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Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
AGECAT9	Age 60-64	1	-2.653477103	0.0141874529	34980.1627110894	<.0001
AGECAT10	Age 65-69	1	-2.192961778	0.0128403001	29168.3441590506	<.0001
AGECAT11	Age 70-74	1	-1.660703413	0.0116850932	20198.5315927238	<.0001
AGECAT12	Age 75-79	1	-1.081408549	0.0110579995	9563.7113954434	<.0001
AGECAT13	Age 80-84	1	-0.5581995646	0.0108890907	2627.8208724738	<.0001
FAGECAT1	Female, Age 18-24	1	1.6476556392	0.0386425332	1818.0328267399	<.0001
FAGECAT2	Female, Age 25-29	1	1.3870772971	0.0380955716	1325.7216216313	<.0001
FAGECAT3	Female, Age 30-34	1	1.1103167288	0.0345938124	1030.1415746807	<.0001
FAGECAT4	Female, Age 35-39	1	0.9993936709	0.0323523537	954.2483653612	<.0001
FAGECAT5	Female, Age 40-44	1	0.8509552240	0.0301907494	794.4482823914	<.0001
FAGECAT6	Female, Age 45-49	1	0.6788676654	0.0266162282	650.5448242253	<.0001
FAGECAT7	Female, Age 50-54	1	0.3978774972	0.0226877120	307.5511498043	<.0001
FAGECAT8	Female, Age 55-59	1	0.2028273339	0.0194159415	109.1279646968	<.0001
FAGECAT9	Female, Age 60-64	1	0.0452693912	0.0170683745	7.0343663422	0.0080
FAGECAT10	Female, Age 65-69	1	0.0038396343	0.0154146667	0.0620456648	0.8033
FAGECAT11	Female, Age 70-74	1	0.0193249892	0.0139122931	1.9294835602	0.1648
FAGECAT12	Female, Age 75-79	1	-0.0147762377	0.0130965823	1.2729512961	0.2592
FAGECAT13	Female, Age 80-84	1	-0.0083040001	0.0127618110	0.4233992360	0.5152

c-statistic=0.838

Table 8. Risk Adjustment Coefficients for PQI 14 – Uncontrolled Diabetes Admission Rate

Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT	Intercept	1	-6.514050758	0.0173968248	140204.6115211550	<.0001
SEX	Female	1	-0.2295542634	0.0226036414	103.1368609057	<.0001
AGECAT1	18 <= Age <= 24	1	-2.933426530	0.0336642180	7592.9994658644	<.0001
AGECAT2	25 <= Age <= 29	1	-2.374206490	0.0304459419	6081.0440061295	<.0001
AGECAT3	30 <= Age <= 34	1	-2.110656647	0.0285857517	5451.7501843151	<.0001
AGECAT4	35 <= Age <= 39	1	-1.822067873	0.0265701331	4702.6390086842	<.0001
AGECAT5	40 <= Age <= 44	1	-1.601682311	0.0256025115	3913.7007774390	<.0001
AGECAT6	45 <= Age <= 49	1	-1.337899434	0.0236078594	3211.6907298169	<.0001
AGECAT7	50 <= Age <= 54	1	-1.112883241	0.0224390333	2459.7497234303	<.0001
AGECAT8	55 <= Age <= 59	1	-0.9776267476	0.0217995176	2011.1866772093	<.0001
AGECAT9	60 <= Age <= 64	1	-0.8693890781	0.0218224162	1587.1672417471	<.0001
AGECAT10	65 <= Age <= 69	1	-0.6712918084	0.0217792447	950.0294502564	<.0001
AGECAT11	70 <= Age <= 74	1	-0.4972268679	0.0222515303	499.3320110986	<.0001
AGECAT12	75 <= Age <= 79	1	-0.1733718345	0.0226936760	58.3643146948	<.0001
AGECAT13	Age 80-84	1	-0.0120274916	0.0241488856	0.2480595398	0.6184
FAGECAT1	Female, 18 <= Age <= 24	1	0.2765909516	0.0466364318	35.1742873595	<.0001
FAGECAT2	Female, 25 <= Age <= 29	1	0.1196024656	0.0431150662	7.6952396855	0.0055
FAGECAT3	Female, 30 <= Age <= 34	1	0.0278044201	0.0408333569	0.4636577406	0.4959
FAGECAT4	Female, 35 <= Age <= 39	1	-0.0260032156	0.0378873138	0.4710494312	0.4925
FAGECAT5	Female, 40 <= Age <= 44	1	-0.0129706404	0.0361569722	0.1286881999	0.7198
FAGECAT6	Female, 45 <= Age <= 49	1	0.0522675395	0.0326195136	2.5674922953	0.1091
FAGECAT7	Female, 50 <= Age <= 54	1	0.0629548033	0.0306795973	4.2107400761	0.0402
FAGECAT8	Female, 55 <= Age <= 59	1	0.0325097929	0.0297050882	1.1977514715	0.2738
FAGECAT9	Female, 60 <= Age <= 64	1	0.0880637118	0.0294563207	8.9379305404	0.0028

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Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
FAGECAT10	Female, 65 <= Age <= 69	1	0.0953649307	0.0292798096	10.6081804520	0.0011
FAGECAT11	Female, 70 <= Age <= 74	1	0.1766925097	0.0296343894	35.5503852997	<.0001
FAGECAT12	Female, 75 <= Age <= 79	1	0.0873840482	0.0303339331	8.2986389557	0.0040
FAGECAT13	Female, 80 <= Age <= 84	1	0.1304466763	0.0318724901	16.7507418857	<.0001

c-statistic=0.709

Table 9. 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	Intercept	1	-8.401500568	0.0205652101	166896.5739497320	<.0001
SEX	Female	1	0.8548862682	0.0245620106	1211.4035817503	<.0001
AGECAT1	Age 18-24	1	-0.3160996373	0.0287324331	121.0328297405	<.0001
AGECAT2	Age 25-29	1	-0.1688923316	0.0295372468	32.6948867640	<.0001
AGECAT3	Age 30-34	1	-0.0807788644	0.0294027207	7.5478011716	0.0060
FAGECAT1	Female, Age 18-24	1	-0.2415144195	0.0351370175	47.2450530083	<.0001
FAGECAT2	Female, Age 25-29	1	-0.2092792057	0.0360336164	33.7315622242	<.0001
FAGECAT3	Female, Age 30-34	1	-0.1372881889	0.0355722784	14.8950850048	0.0001

c-statistic=0.611

Table 10. 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	Intercept	1	-7.184685343	0.0240723445	89079.6959188130	<.0001
SEX	Female	1	-0.9344756366	0.0373815829	624.9144853271	<.0001
AGECAT1	Age 18-24	1	-6.172533697	0.2055227724	902.0010429612	<.0001
AGECAT2	Age 25-29	1	-3.835902860	0.0760782250	2542.2277706263	<.0001
AGECAT3	Age 30-34	1	-2.629486751	0.0474532401	3070.5079864894	<.0001
AGECAT4	Age 35-39	1	-1.819956759	0.0367745867	2449.2129010984	<.0001
AGECAT5	Age 40-44	1	-1.088438505	0.0314603680	1196.9615447047	<.0001
AGECAT6	Age 45-49	1	-0.5270891259	0.0283388679	345.9418637300	<.0001
AGECAT7	Age 50-54	1	-0.1095250535	0.0269569992	16.5075969024	<.0001
AGECAT8	Age 55-59	1	0.1378099110	0.0262734002	27.5123915398	<.0001
AGECAT9	Age 60-64	1	0.2806502073	0.0261712703	114.9955749210	<.0001
AGECAT10	Age 65-69	1	0.3022380039	0.0265435316	129.6524524012	<.0001
AGECAT11	Age 70-74	1	0.3045528811	0.0272215367	125.1699699023	<.0001
AGECAT12	Age 75-79	1	0.3442934608	0.0284987095	145.9510288769	<.0001
AGECAT13	Age 80-84	1	0.3360973680	0.0308934777	118.3577288435	<.0001
FAGECAT1	Female, Age 18-24	1	0.5135331398	0.3310704221	2.4060031147	0.1209
FAGECAT2	Female, Age 25-29	1	0.4182714688	0.1252868674	11.1456495053	0.0008
FAGECAT3	Female, Age 30-34	1	0.2539032840	0.0803006031	9.9976751623	0.0016
FAGECAT4	Female, Age 35-39	1	0.2433254786	0.0609587186	15.9332186065	<.0001
FAGECAT5	Female, Age 40-44	1	0.0670162716	0.0526594169	1.6196024837	0.2031
FAGECAT6	Female, Age 45-49	1	-0.0706247431	0.0471081786	2.2476109368	0.1338
FAGECAT7	Female, Age 50-54	1	-0.1820143900	0.0444954222	16.7332686715	<.0001
FAGECAT8	Female, Age 55-59	1	-0.2240870256	0.0429192972	27.2601486823	<.0001

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Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
FAGECAT9	Female, Age 60-64	1	-0.2160997387	0.0425249827	25.8238025879	<.0001
FAGECAT10	Female, Age 65-69	1	-0.1054844227	0.0428480925	6.0605728346	0.0138
FAGECAT11	Female, Age 70-74	1	-0.0562410965	0.0439758194	1.6356096958	0.2009
FAGECAT12	Female, Age 75-79	1	-0.1135709909	0.0465361590	5.9559872612	0.0147
FAGECAT13	Female, Age 80-84	1	-0.0745094573	0.0502273796	2.2006032895	0.1380

c-statistic=0.78

Table 11. Risk Adjustment Coefficients for PQI 90 – Overall Composite

Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT	Intercept	1	-2.419247883	0.0024155707	1003046.8537982500	<.0001
SEX	Female	1	-0.0480168921	0.0030342354	250.4318427138	<.0001
AGECAT1	Age 18-24	1	-3.976803243	0.0067424059	347887.1745629180	<.0001
AGECAT2	Age 25-29	1	-3.764709233	0.0068794163	299474.3931034340	<.0001
AGECAT3	Age 30-34	1	-3.473002042	0.0062555247	308235.4556724800	<.0001
AGECAT4	Age 35-39	1	-3.154320972	0.0055698952	320713.8514400410	<.0001
AGECAT5	Age 40-44	1	-2.791616589	0.0050227980	308901.5638700070	<.0001
AGECAT6	Age 45-49	1	-2.451187810	0.0043670536	315047.5665951220	<.0001
AGECAT7	Age 50-54	1	-2.082839694	0.0038788435	288341.5103098980	<.0001
AGECAT8	Age 55-59	1	-1.794448478	0.0035405991	256867.1035680970	<.0001
AGECAT9	Age 60-64	1	-1.573475217	0.0034312278	210291.0158515090	<.0001
AGECAT10	Age 65-69	1	-1.391096794	0.0034459970	162961.4633249710	<.0001
AGECAT11	Age 70-74	1	-1.110363219	0.0034383121	104289.2525990960	<.0001
AGECAT12	Age 75-79	1	-0.7539196186	0.0035028810	46323.2813511665	<.0001
AGECAT13	Age 80-84	1	-0.4083087329	0.0036543921	12483.8073005382	<.0001

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Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
FAGECAT1	Female, Age 18-24	1	0.4397930939	0.0087726419	2513.2518314553	<.0001
FAGECAT2	Female, Age 25-29	1	0.3375359142	0.0091158214	1371.0344457380	<.0001
FAGECAT3	Female, Age 30-34	1	0.1467392550	0.0085661825	293.4390943883	<.0001
FAGECAT4	Female, Age 35-39	1	0.0516940174	0.0077164790	44.8789005012	<.0001
FAGECAT5	Female, Age 40-44	1	0.0094328397	0.0069654780	1.8339312819	0.1757
FAGECAT6	Female, Age 45-49	1	-0.0440270703	0.0060531639	52.9023178002	<.0001
FAGECAT7	Female, Age 50-54	1	-0.0802482296	0.0053420137	225.6632923548	<.0001
FAGECAT8	Female, Age 55-59	1	-0.1114707831	0.0048289131	532.8725168096	<.0001
FAGECAT9	Female, Age 60-64	1	-0.1200978201	0.0046431646	669.0245905447	<.0001
FAGECAT10	Female, Age 65-69	1	-0.0725800523	0.0046110259	247.7647020141	<.0001
FAGECAT11	Female, Age 70-74	1	-0.0113649588	0.0045451427	6.2523125433	0.0124
FAGECAT12	Female, Age 75-79	1	-0.0116451071	0.0045973902	6.4159984313	0.0113
FAGECAT13	Female, Age 80-84	1	-0.0018104481	0.0047403780	0.1458633627	0.7025

c-statistic=0.775

Table 12. Risk Adjustment Coefficients for PQI 91 – Prevention Quality Acute Composite

Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT	Intercept	1	-3.621688634	0.0041575303	758842.0213049850	<.0001
SEX	Female	1	0.1659720817	0.0050483475	1080.8653578131	<.0001
AGECAT1	Age 18-24	1	-4.833590128	0.0180842508	71439.5316605848	<.0001
AGECAT2	Age 25-29	1	-4.526651267	0.0176661918	65655.0589289873	<.0001
AGECAT3	Age 30-34	1	-4.194322746	0.0156264294	72045.0560429071	<.0001
AGECAT4	Age 35-39	1	-3.928114179	0.0140660180	77987.6560068511	<.0001
AGECAT5	Age 40-44	1	-3.666085625	0.0130604781	78792.8947566555	<.0001
AGECAT6	Age 45-49	1	-3.400077358	0.0113816980	89240.8052614301	<.0001

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Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
AGECAT7	Age 50-54	1	-2.968366997	0.0094963770	97705.5640505775	<.0001
AGECAT8	Age 55-59	1	-2.600433096	0.0081220469	102508.6182778660	<.0001
AGECAT9	Age 60-64	1	-2.264015058	0.0074505647	92337.9521717731	<.0001
AGECAT10	Age 65-69	1	-1.923866609	0.0070942094	73543.0966108502	<.0001
AGECAT11	Age 70-74	1	-1.479238025	0.0066949826	48817.6893757007	<.0001
AGECAT12	Age 75-79	1	-0.9843545888	0.0065300334	22723.3486636056	<.0001
AGECAT13	Age 80-84	1	-0.5273248982	0.0065752230	6431.8450819571	<.0001
FAGECAT1	Female, Age 18-24	1	0.9836466870	0.0209337630	2207.9216721270	<.0001
FAGECAT2	Female, Age 25-29	1	0.8107045126	0.0208816747	1507.2820547635	<.0001
FAGECAT3	Female, Age 30-34	1	0.6239998219	0.0189164353	1088.1539256713	<.0001
FAGECAT4	Female, Age 35-39	1	0.5402750006	0.0171884414	987.9995538377	<.0001
FAGECAT5	Female, Age 40-44	1	0.4694761765	0.0160979417	850.5236931147	<.0001
FAGECAT6	Female, Age 45-49	1	0.3927985924	0.0141676788	768.6744404101	<.0001
FAGECAT7	Female, Age 50-54	1	0.2416056593	0.0120598717	401.3551420060	<.0001
FAGECAT8	Female, Age 55-59	1	0.1147318746	0.0104418157	120.7302591876	<.0001
FAGECAT9	Female, Age 60-64	1	0.0247499881	0.0096305077	6.6046776893	0.0102
FAGECAT10	Female, Age 65-69	1	0.0003809427	0.0091314226	0.0017403737	0.9667
FAGECAT11	Female, Age 70-74	1	0.0239085558	0.0085280873	7.8596536485	0.0051
FAGECAT12	Female, Age 75-79	1	-0.0125368509	0.0082748830	2.2953726512	0.1298
FAGECAT13	Female, Age 80-84	1	-0.0054205366	0.0082262235	0.4341937342	0.5099

c-statistic=0.818

Table 13. Risk Adjustment Coefficients for PQI 92 – Prevention Quality Chronic Composite

Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT	Intercept	1	-2.829371622	0.0028850038	961805.3886355470	<.0001
SEX	Female	1	-0.1654164048	0.0036988704	1999.9490041816	<.0001
AGECAT1	Age 18-24	1	-3.703578450	0.0073309226	255226.5369642610	<.0001
AGECAT2	Age 25-29	1	-3.506271714	0.0075221515	217273.6106155130	<.0001
AGECAT3	Age 30-34	1	-3.221575408	0.0068785747	219351.0326995070	<.0001
AGECAT4	Age 35-39	1	-2.894434527	0.0061289882	223023.1240136830	<.0001
AGECAT5	Age 40-44	1	-2.516731493	0.0055222022	207706.0547661890	<.0001
AGECAT6	Age 45-49	1	-2.166489010	0.0048271437	201433.8851398350	<.0001
AGECAT7	Age 50-54	1	-1.807755768	0.0043400823	173493.6516853680	<.0001
AGECAT8	Age 55-59	1	-1.532340465	0.0040077586	146186.5554090290	<.0001
AGECAT9	Age 60-64	1	-1.332116301	0.0039133253	115875.7040029950	<.0001
AGECAT10	Age 65-69	1	-1.182744849	0.0039567205	89353.4614578309	<.0001
AGECAT11	Age 70-74	1	-0.9452175925	0.0039848144	56266.1762001926	<.0001
AGECAT12	Age 75-79	1	-0.6361639919	0.0040952548	24131.0555037465	<.0001
AGECAT13	Age 80-84	1	-0.3396666864	0.0043091277	6213.3695330471	<.0001
FAGECAT1	Female, Age 18-24	1	0.3750809760	0.0098866472	1439.3022321650	<.0001
FAGECAT2	Female, Age 25-29	1	0.2782337363	0.0103376550	724.3951054820	<.0001
FAGECAT3	Female, Age 30-34	1	0.0763711444	0.0098110401	60.5938430522	<.0001
FAGECAT4	Female, Age 35-39	1	-0.0109990255	0.0088227458	1.5541784423	0.2125
FAGECAT5	Female, Age 40-44	1	-0.0227246707	0.0078908290	8.2937307518	0.0040
FAGECAT6	Female, Age 45-49	1	-0.0566532302	0.0068507473	68.3869841329	<.0001
FAGECAT7	Female, Age 50-54	1	-0.0699025901	0.0060855178	131.9445502592	<.0001
FAGECAT8	Female, Age 55-59	1	-0.0849875743	0.0055481652	234.6454302042	<.0001

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Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
FAGECAT9	Female, Age 60-64	1	-0.0834898566	0.0053711566	241.6194030750	<.0001
FAGECAT10	Female, Age 65-69	1	-0.0303870964	0.0053736107	31.9776109031	<.0001
FAGECAT11	Female, Age 70-74	1	0.0264317268	0.0053559545	24.3543936919	<.0001
FAGECAT12	Female, Age 75-79	1	0.0251631784	0.0054701049	21.1611701580	<.0001
FAGECAT13	Female, Age 80-84	1	0.0211593651	0.0056994242	13.7829854041	0.0002

c-statistic=0.761

Table 14. Risk Adjustment Coefficients for PQI 93 – PQI Diabetes Composite

Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
INTERCEPT	Intercept	1	-5.371007748	0.0097579918	302963.7453165250	<.0001
SEX	Female	1	-0.4915402185	0.0134644734	1332.7213945336	<.0001
AGECAT1	Age 18-24	1	-1.353279233	0.0122550881	12193.8812442367	<.0001
AGECAT2	Age 25-29	1	-1.298320644	0.0127485724	10371.4820279880	<.0001
AGECAT3	Age 30-34	1	-1.160463127	0.0125758362	8515.0841487668	<.0001
AGECAT4	Age 35-39	1	-0.9272758863	0.0121247314	5848.8930236122	<.0001
AGECAT5	Age 40-44	1	-0.6928504931	0.0118509752	3417.9907470068	<.0001
AGECAT6	Age 45-49	1	-0.4256485947	0.0113284106	1411.7716080482	<.0001
AGECAT7	Age 50-54	1	-0.2116719947	0.0110437961	367.3584610758	<.0001
AGECAT8	Age 55-59	1	-0.0785017200	0.0108537627	52.3115638384	<.0001
AGECAT9	Age 60-64	1	-0.0229682101	0.0108939726	4.4451021284	0.0350
AGECAT10	Age 65-69	1	-0.0206959904	0.0111169251	3.4657965720	0.0627
AGECAT11	Age 70-74	1	0.0057782408	0.0114449676	0.2548954817	0.6136
AGECAT12	Age 75-79	1	0.0904227209	0.0120216006	56.5757806560	<.0001
AGECAT13	Age 80-84	1	0.1486601805	0.0130227776	130.3112949625	<.0001
FAGECAT1	Female, Age 18-24	1	0.6455193675	0.0169025340	1458.5284952382	<.0001

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Parameter	Label	DF	Estimate	Standard Error	Wald Chi-Square	Pr > Chi-Square
FAGECAT2	Female, Age 25-29	1	0.5502238519	0.0177405111	961.9368690643	<.0001
FAGECAT3	Female, Age 30-34	1	0.3123381809	0.0179220704	303.7202843003	<.0001
FAGECAT4	Female, Age 35-39	1	0.2229756781	0.0173467669	165.2258147948	<.0001
FAGECAT5	Female, Age 40-44	1	0.1583316528	0.0169949240	86.7954654485	<.0001
FAGECAT6	Female, Age 45-49	1	0.0582791736	0.0162583137	12.8491907097	0.0003
FAGECAT7	Female, Age 50-54	1	-0.0057205098	0.0158281560	0.1306197420	0.7178
FAGECAT8	Female, Age 55-59	1	-0.0992386489	0.0155674373	40.6375424762	<.0001
FAGECAT9	Female, Age 60-64	1	-0.0847152247	0.0155860802	29.5426277352	<.0001
FAGECAT10	Female, Age 65-69	1	-0.0370803684	0.0158806471	5.4519478283	0.0195
FAGECAT11	Female, Age 70-74	1	0.0286892222	0.0163073658	3.0950660415	0.0785
FAGECAT12	Female, Age 75-79	1	0.0207981274	0.0171504262	1.4706137898	0.2252
FAGECAT13	Female, Age 80-84	1	0.0276886461	0.0184864857	2.2433380623	0.1342

c-statistic=0.632

Appendix: Additional Tables

Table 15. Population Age Categories

Age Category	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