SECTION VI.
SCIENTIFIC SOUNDNESS OF THE MEASURE

VI.B. Validity

VI.B.1 Construct Validity

To examine construct validity, we performed comparative analyses between our metrics and two existing metrics: the Continuity Ratio, also based on MAX administrative data (Ku 2009, Ku 2013), and a metric derived from the American Community Survey (Boudreaux 2013).

Continuity Ratio:

The Continuity Ratio calculates the average number of children enrolled per month divided by the number of children enrolled at any point in the year (Ku 2009, Ku 2013). Like Coverage PE, the continuity ratio will tend to underestimate continuity, as the implied assumption is that any child eligible during an interval of time is presumed to be eligible across the entire interval. Unlike Coverage PE, the Continuity Ratio makes no adjustments to the denominator for children who enroll for the first time mid-year or who age out of Medicaid.

ACS Metric:

For the purpose of using survey data to validate our metric, we selected the American Community Survey conducted by the U.S. Census. The ACS provides the largest national sample, with over 2.8 million households interviewed annually, and is aggregated at the state level, allowing us to most accurately compare survey-based findings with our metrics utilizing administrative data (Call et al. 2013; Davern et al. 2009). The ACS contains one health insurance question, and details of respondent's annual income and employment status, from which we can define eligibility (U. S. Census Bureau). Because the logical edits to reported Medicaid enrollment (to correct the documented issue with Medicaid undercounting) in the ACS were only implemented in 2009, we also coded these same edits into the 2008 ACS data (Lynch, Boudreaux, and Davern).

Although primarily based on one question in the survey, there are nevertheless several ways of defining a metric for the ACS. We opted to use a definition similar to that used in a study by the Census Bureau which linked ACS data with administrative records (Boudreaux et al. 2013), because it would create a denominator most similar to what we see in the MAX data. In MAX, children who have dual eligibility or dual enrollment in Medicaid/CHIP and other insurance types are included in the records, and we allowed similar reports of dual enrollment in the ACS. Using the ACS health insurance question), we measured the ratio of children who reported enrollment in "Medicaid, Medical Assistance, or any kind of government-assistance plan for those with low incomes or a disability", or children who reported enrollment in other types of insurance in addition to Medicaid (the numerator) to those children plus those who reported no enrollment in any of the options listed in the survey question (the denominator). For inclusion in the denominator, each child's reported household income also had to be below the age-specific income thresholds in a given state.

Using survey data to validate our metrics allows us to ensure accuracy despite one of the primary problems with using administrative datasets like MAX: the inability to observe children who are eligible but not enrolled.

Methods

In order to maximize the significance of our comparisons, we expanded these analyses to 43 states which passed a filter test developed to determine whether a state's managed care claims were sufficiently complete to assess appendicitis coverage, and thus generate an Informed Coverage metric (see Informed Coverage CPCF for detailed description of filter).

To examine construct validity, we report Pearson correlations and absolute errors between the external standard of the ACS-based metric and the various metrics now used to assess insurance enrollment in the pediatric Medicaid/CHIP population. We used data from an initial time period, January 2008-June 2009, compared to the 2008 ACS, in order to construct our metrics. A second time period, July 2008-December 2009, was used with the 2009 ACS for validation.

Results

APPENDIX IVa describes Coverage PE, Coverage PI, Informed Coverage, ACS, the Continuity Ratio, Appendicitis Coverage, and Duration as measured in the 43 states.

APPENDIX IVb describes the correlations between all metrics based on the 43 states included in the analysis. Informed Coverage was well correlated with the ACS metric across the 43 states ($r = 0.81$ (0.66, 0.89)), and showed similar correlation with ACS in the validation set ($r = 0.75$ (0.57, 0.85)). Duration displayed lower correlations with all metrics ($r = 0.44$ (0.15, 0.65) and ($r = 0.50$ (0.23, 0.69) respectively.

APPENDIX IVc describes the median absolute errors between Informed Coverage, Coverage PE, Coverage PI, and the Continuity Ratio relative to the ACS survey and Appendicitis coverage rates. In the development set, the median absolute errors between IC or CR and the ACS survey were similar. However, in the validation set, the median absolute error between the 2009 ACS estimate and IC was 2.69%, and 4.09% between ACS and the Continuity Ratio, with significant difference between these errors ($P < 0.05$). Of note, the median absolute errors in the "uninformed" PE and PI versus 2009 ACS were 6.39% and 5.54% respectively, with a significant difference between the PI error versus the error associated with IC ($P < 0.0001$). In other words, using appendectomy to inform coverage reduced the error with respect to the ACS survey.

VI.B.2 Predictive Validity

We also measure validity in terms of predictive validity (whether the measures of coverage predict an outcome of interest) and construct validity (whether the measures of coverage are associated with other measures of performance) (McDowell, 2006). To this end we have completed regression models to demonstrate the statistical association of coverage measures at the county level (as a measure of performance) and the probability that an individual child will be at risk for an ambulatory care sensitive

condition (ACSC), after controlling for other known risk factors for ACSCs, and regressions to demonstrate the probability that an individual child will be at risk for selected health outcomes from the initial pediatric core quality measurement set (also termed the CHIPRA core quality metrics) after controlling for other known risk factors for these outcomes available in the MAX data.

CHIPRA Core Measures: Positive Outcomes & Utilization

Methods

First, we examined how the Duration and Coverage metrics related to seven of the CHIPRA core set measures: Preventive Dental, Emergency Dental, Well-child visits (15 months), Asthma, and ADHD follow-up (Centers for Medicare and CHIP Services, 2011). We selected these measures out of the full 24-measure CHIPRA core set because they affect a wide swath of the pediatric population and/or are sensitive to continuity of insurance (Halterman, 2008; Cassedy, 2008; DeVoe, 2008; Federico, 2007; Lavarreda, 2008; Olson, 2005; Schoen, 2000, Jones, 2008; Ortega, 2001, Shatin, 1998). They are also evaluable with standard administrative claims datasets, such as MAX. Patient outcomes (0, 1 denoting achievement or non-achievement of a specific core measure) were the dependent variables. The independent variables included the continuity metric of interest, as well as specific patient level variables such as neighborhood education level, neighborhood percent poverty, and specific chronic diseases versus a reference of no chronic disease. Tables in Appendix VIa (one for each of the five analyzed core measures) are displayed with seven models each, each model adding additional patient characteristics. As most of the outcomes are dichotomous variables, we report logit models and their C-statistics.

In the validation models using the CHIPRA quality outcomes, two different sampling schemes were used to avoid the mathematical tautology of using a patient characteristic as an explanatory and outcome variable. Specifically, since the metrics were stratified by county, using a patient in the calculation for their respective county and then applying that estimate to that patient is cyclical, in that the patient affects the estimate which affects the patient, and thus biases the resulting regression coefficients.

For some of the CHIPRA measures in the validation studies applicable to a particular subset of patients (i.e. those with asthma, ADHD, etc.), we used the classic method of applying the estimation set to the validation set such that all patients who did not possess the specific CHIPRA outcome were used as the estimation set for the coverage and duration metric numbers which were then applied to the patients who had the specific CHIPRA outcome. Another sampling scheme was used for the dental and well child visit outcomes that are applicable to all patients. For these outcomes, the patients were randomly split into two samples and the coverage and duration metrics were calculated in each outcome stratum. Then, the estimates from each of the samples were applied to the other sample, thus avoiding the mathematical tautology that a patient did not influence or contribute to the estimate used for that patient in the modeling process. After the estimates for each sample were applied to the other sample, the models were calculated at each step. Using these two sampling schemes for the metric estimates provided a way to avoid a cyclical estimation process between the metrics and the patient outcomes that would alter the estimates within each outcome stratum and thus biased the regression coefficients from the CHIPRA validation models.

Results

As shown in the Appendices, Duration at 6,12, and 18 months demonstrated predictive validity with better health outcomes ($p<0.05$). Specifically, greater duration was associated with having at least 1 preventive dental visit and having at least 1 dental treatment service in both Illinois and Louisiana. Duration at 6, 12, and 18 months was associated with decreased likelihood of not having at least 1 asthma-related emergency room visit in Louisiana ($p < 0.0001$), but this association was non-significant in Illinois. On the other hand, in Illinois, increased duration at 6, 12, and 18 months was associated with increased likelihood of having at least 5 well-child care visits by age 15 months ($p < 0.0001$), but increased duration was found to be significantly associated ($p<0.0001$) with decreased odds in Louisiana. Duration at 6 or 18 months was not associated with improved follow-up for children diagnosed with attention-deficit hyperactivity disorder in either Louisiana or Illinois. However, duration at 12 months was significantly associated with a decreased odds (OR 1.01; $p<0.05$) of improved ADHD follow-up in Illinois, this association was non-significant in Louisiana.

APPENDIX Va: CHIPRA Core Set outcome tables

Ambulatory Care-Sensitive Conditions: Negative Outcomes and Unnecessary Hospitalization

We predicted that hospitalizations related to ambulatory care-sensitive conditions would be positively associated with poor performance on both the Duration and Coverage metrics. From the pediatric literature, we identified 22 ACSCs for use in our analysis: asthma, pediatric gastroenteritis, bacterial pneumonia, dehydration, UTIs, perforated appendix, seizure disorders, skin infection/cellulitis, failure to thrive, severe ENT infection, pelvic inflammatory disease, diabetes mellitus (short-term complications), immunization-preventable conditions, tuberculosis, anemia, congenital syphilis, congestive heart failure, dental conditions, hypoglycemia, nutritional deficiencies, and meningitis (Flores, 2003; Gadomski, 1998, Garg, 2003; Herrod, 2008; Parker, 2000; Tom, 2010). We divided the population into those who had at least one inpatient admission associated with any of these conditions (=1) and those who did not (=0), and looked for correlations with their Duration and/or Coverage metrics.

Results

In brief, both Coverage and Duration measures often showed a significant association with ACSC hospitalizations, but in the direction of increased Coverage and Duration leading to increased likelihood of hospitalization. Specific results from the single item and fully adjusted models are described in the ensuing paragraphs. Notably, statistically significant results using conventional thresholds for p-values of <0.05 should be interpreted with caution because the sample sizes in each of the analyzed states are quite large.

In single item base models (i.e. including the average county-level duration measure as the sole predictor), the average county-level duration of enrollment at 6, 12, and 18 months was significantly associated ($p < 0.0001$) with an increase in a child's probability of an ACSC hospitalization in Illinois and New York of ~2% and ~6%, respectively. However, the opposite association was found in Louisiana and Utah such that the average county-level duration of enrollment at 6, 12, and 18 months was significantly associated ($p < 0.05$) with a 2-4.5% decreased odds of hospitalization for an ACSC condition. These associations were not significant in Montana, North Carolina or New Hampshire. The associations for

Oregon were non-significant at 6 and 12 months duration. At 18 months duration, Oregon was significantly associated ($p<0.05$) with a ~3% increase in odds of hospitalization.

In the fully adjusted models, the average county-level duration of enrollment at 6, 12, and 18 months was significantly associated with an increase in a child's probability of an ACSC hospitalization in Illinois and New York. Specifically, for every 1% increase in the average county-level duration of enrollment, there was a 0.5-4.7% increase in a child's odds of hospitalization for an ACSC. In Louisiana, average county-level duration of enrollment at 6 months was significantly associated ($p<0.05$) with a 3.4% increase in odds of having an ACSC hospitalization; this association was not significant in the fully adjusted model for duration at 12 or 18 months. On the other hand, in North Carolina, the average county-level duration of enrollment at 12 and 18 months was significantly associated with a decreased odds (OR ~ 1.02 at both time points, $p < 0.001$) of a child's hospitalization for an ACSC condition; this association was not significant at 6 months. Finally, these associations were not significant in New Hampshire, Montana, Utah, or Oregon at any time point for duration.

APPENDIX Vb: ACSC VALIDATION TABLES

APPENDIX IV: CONSTRUCT VALIDITY

APPENDIX IVa: Measured rates for Coverage PE, Coverage PI, Appendicitis Coverage, Informed Coverage, Continuity Ratio, ACS, and Duration in 43 states

State	Coverage PE	Coverage PI	Appendicitis Coverage	Informed Coverage	Continuity Ratio	ACS	Duration
AK	0.699 (0.697,0.701)	0.853 (0.852,0.855)	0.829 (0.725,0.906)	0.853 (0.852,0.855)	0.755 (0.753,0.757)	0.931 (0.902,0.953)	0.371 (0.365,0.377)
AL	0.765 (0.764,0.766)	0.905 (0.904,0.905)	0.868 (0.821,0.907)	0.905 (0.904,0.905)	0.814 (0.814,0.815)	0.840 (0.827,0.853)	0.572 (0.569,0.575)
AR	0.780 (0.779,0.781)	0.877 (0.876,0.878)	0.881 (0.835,0.919)	0.877 (0.876,0.878)	0.809 (0.808,0.810)	0.867 (0.853,0.879)	0.497 (0.495,0.500)
AZ	0.729 (0.728,0.730)	0.862 (0.862,0.863)	0.752 (0.723,0.780)	0.794 (0.793,0.794)	0.764 (0.763,0.764)	0.728 (0.714,0.740)	0.412 (0.410,0.414)
CA	0.693 (0.693,0.693)	0.851 (0.851,0.851)	0.795 (0.782,0.808)	0.772 (0.772,0.772)	0.764 (0.764,0.764)	0.767 (0.762,0.772)	0.414 (0.413,0.415)
CO	0.733 (0.732,0.734)	0.872 (0.872,0.873)	0.656 (0.585,0.723)	0.727 (0.726,0.728)	0.770 (0.769,0.771)	0.648 (0.628,0.668)	0.473 (0.470,0.475)
CT	0.824 (0.822,0.825)	0.927 (0.926,0.928)	0.512 (0.355,0.667)	0.824 (0.822,0.825)	0.847 (0.846,0.848)	0.833 (0.813,0.851)	0.682 (0.678,0.686)
DE	0.756 (0.754,0.758)	0.879 (0.876,0.879)	0.889 (0.518,0.997)	0.756 (0.754,0.758)	0.785 (0.783,0.787)	0.811 (0.768,0.850)	0.464 (0.458,0.469)
FL	0.710 (0.710,0.711)	0.873 (0.872,0.873)	0.594 (0.558,0.628)	0.710 (0.710,0.711)	0.753 (0.752,0.753)	0.647 (0.638,0.657)	0.471 (0.470,0.473)
GA	0.707 (0.706,0.707)	0.860 (0.860,0.861)	0.711 (0.656,0.762)	0.774 (0.773,0.774)	0.763 (0.762,0.764)	0.763 (0.753,0.772)	0.424 (0.423,0.426)
HI	0.813 (0.811,0.815)	0.928 (0.927,0.929)	0.889 (0.708,0.977)	0.871 (0.869,0.872)	0.855 (0.853,0.857)	0.891 (0.862,0.916)	0.711 (0.705,0.717)
IA	0.743 (0.742,0.745)	0.896 (0.895,0.897)	0.866 (0.782,0.927)	0.896 (0.895,0.897)	0.790 (0.789,0.792)	0.873 (0.855,0.890)	0.525 (0.521,0.529)
ID	0.787 (0.786,0.789)	0.901 (0.900,0.902)	0.729 (0.647,0.800)	0.786 (0.784,0.787)	0.813 (0.812,0.815)	0.740 (0.713,0.765)	0.668 (0.663,0.673)
IL	0.848 (0.848,0.849)	0.934 (0.934,0.935)	0.941 (0.924,0.955)	0.930 (0.930,0.930)	0.867 (0.867,0.867)	0.889 (0.882,0.897)	0.722 (0.720,0.724)
IN	0.790 (0.789,0.790)	0.911 (0.910,0.911)	0.805 (0.746,0.855)	0.850 (0.849,0.850)	0.821 (0.821,0.822)	0.765 (0.752,0.777)	0.560 (0.597,0.602)
KS	0.673 (0.672,0.674)	0.848 (0.847,0.849)	0.752 (0.668,0.824)	0.761 (0.760,0.762)	0.748 (0.747,0.750)	0.766 (0.743,0.787)	0.460 (0.456,0.464)
LA	0.811 (0.810,0.811)	0.944 (0.943,0.944)	0.921 (0.890,0.946)	0.943 (0.943,0.944)	0.882 (0.881,0.882)	0.870 (0.859,0.880)	0.728 (0.725,0.731)
MD	0.801 (0.780,0.801)	0.917 (0.917,0.918)	0.837 (0.785,0.881)	0.859 (0.858,0.860)	0.830 (0.830,0.831)	0.818 (0.802,0.832)	0.640 (0.637,0.643)
MI	0.810 (0.809,0.810)	0.916 (0.915,0.916)	0.668 (0.602,0.730)	0.810 (0.809,0.810)	0.831 (0.830,0.831)	0.880 (0.871,0.888)	0.632 (0.630,0.634)
MN	0.723 (0.722,0.724)	0.874 (0.873,0.874)	0.702 (0.641,0.759)	0.723 (0.722,0.724)	0.778 (0.777,0.779)	0.776 (0.759,0.793)	0.461 (0.458,0.464)
MO	0.772 (0.771,0.773)	0.893 (0.892,0.894)	0.844 (0.802,0.880)	0.832 (0.832,0.833)	0.814 (0.814,0.815)	0.807 (0.795,0.818)	0.572 (0.569,0.575)

MT	0.725 (0.722,0.727)	0.870 (0.868,0.871)	0.653 (0.504,0.783)	0.798 (0.796,0.800)	0.778 (0.776,0.780)	0.659 (0.610,0.706)	0.461 (0.454,0.468)
NC	0.811 (0.811,0.812)	0.915 (0.915,0.916)	0.761 (0.723,0.796)	0.808 (0.807,0.808)	0.831 (0.830,0.831)	0.808 (0.798,0.818)	0.610 (0.608,0.611)
ND	0.706 (0.703,0.709)	0.866 (0.864,0.869)	0.821 (0.631,0.939)	0.750 (0.748,0.753)	0.755 (0.752,0.758)	0.831 (0.771,0.881)	0.378 (0.370,0.386)
NE	0.739 (0.738,0.741)	0.882 (0.881,0.883)	0.798 (0.692,0.880)	0.811 (0.809,0.812)	0.796 (0.795,0.797)	0.773 (0.743,0.801)	0.513 (0.508,0.518)
NH	0.781 (0.779,0.783)	0.891 (0.890,0.893)	0.927 (0.801,0.985)	0.891 (0.890,0.892)	0.807 (0.805,0.809)	0.831 (0.796,0.862)	0.548 (0.541,0.554)
NJ	0.777 (0.776,0.778)	0.909 (0.909,0.910)	0.843 (0.807,0.874)	0.836 (0.836,0.837)	0.839 (0.838,0.839)	0.771 (0.758,0.784)	0.598 (0.595,0.600)
NM	0.823 (0.822,0.824)	0.926 (0.926,0.927)	0.850 (0.806,0.887)	0.875 (0.874,0.875)	0.849 (0.848,0.850)	0.837 (0.819,0.854)	0.593 (0.590,0.597)
NV	0.641 (0.640,0.643)	0.831 (0.830,0.833)	0.389 (0.276,0.511)	0.641 (0.640,0.643)	0.696 (0.695,0.698)	0.453 (0.425,0.482)	0.358 (0.355,0.362)
NY	0.754 (0.753,0.754)	0.900 (0.900,0.901)	0.894 (0.876,0.911)	0.900 (0.900,0.901)	0.816 (0.816,0.817)	0.859 (0.852,0.865)	0.613 (0.611,0.614)
OK	0.750 (0.749,0.751)	0.869 (0.868,0.870)	0.846 (0.808,0.879)	0.869 (0.868,0.870)	0.789 (0.788,0.790)	0.839 (0.824,0.852)	0.486 (0.483,0.489)
OR	0.695 (0.694,0.696)	0.842 (0.841,0.842)	0.745 (0.679,0.804)	0.769 (0.768,0.769)	0.756 (0.755,0.757)	0.687 (0.664,0.709)	0.361 (0.358,0.364)
RI	0.768 (0.766,0.770)	0.881 (0.880,0.883)	0.831 (0.733,0.905)	0.881 (0.880,0.883)	0.811 (0.809,0.813)	0.824 (0.787,0.857)	0.388 (0.382,0.393)
SC	0.772 (0.771,0.773)	0.909 (0.909,0.910)	0.800 (0.730,0.859)	0.772 (0.771,0.773)	0.812 (0.811,0.813)	0.756 (0.741,0.772)	0.577 (0.574,0.579)
SD	0.751 (0.749,0.753)	0.884 (0.882,0.885)	0.844 (0.705,0.935)	0.884 (0.882,0.885)	0.802 (0.800,0.804)	0.873 (0.838,0.902)	0.533 (0.526,0.539)
TN	0.809 (0.808,0.810)	0.910 (0.910,0.911)	0.881 (0.834,0.919)	0.860 (0.859,0.860)	0.842 (0.841,0.842)	0.824 (0.812,0.835)	0.685 (0.683,0.688)
TX	0.677 (0.676,0.677)	0.828 (0.828,0.828)	0.695 (0.678,0.712)	0.677 (0.676,0.677)	0.738 (0.737,0.738)	0.685 (0.679,0.692)	0.357 (0.356,0.358)
UT	0.642 (0.641,0.644)	0.836 (0.835,0.837)	0.611 (0.505,0.709)	0.640 (0.639,0.642)	0.710 (0.709,0.711)	0.614 (0.587,0.640)	0.388 (0.385,0.392)
VA	0.807 (0.806,0.808)	0.919 (0.918,0.919)	0.814 (0.753,0.865)	0.860 (0.860,0.861)	0.827 (0.826,0.828)	0.788 (0.773,0.803)	0.628 (0.625,0.630)
VT	0.837 (0.835,0.839)	0.925 (0.923,0.926)	0.954 (0.842,0.994)	0.924 (0.923,0.925)	0.848 (0.846,0.850)	0.940 (0.914,0.961)	0.492 (0.484,0.500)
WA	0.796 (0.796,0.797)	0.912 (0.911,0.912)	0.862 (0.827,0.893)	0.854 (0.853,0.855)	0.822 (0.821,0.822)	0.813 (0.800,0.825)	0.615 (0.612,0.617)
WI	0.784 (0.783,0.785)	0.892 (0.891,0.892)	0.845 (0.795,0.888)	0.837 (0.837,0.838)	0.788 (0.787,0.789)	0.831 (0.817,0.845)	0.517 (0.514,0.519)
WY	0.675 (0.672,0.678)	0.854 (0.852,0.856)	0.871 (0.702,0.964)	0.854 (0.852,0.856)	0.751 (0.749,0.754)	0.792 (0.736,0.841)	0.462 (0.454,0.470)

APPENDIX IVb: Correlations between all metrics, across 43 states in two time periods

		Coverage PE	Coverage PI	Informed Coverage	Continuity Ratio	Appendicitis Coverage	Duration	ACS
Coverage PE	**Development**	1	0.92[d] (0.85, 0.96)	0.71[d] (0.51, 0.83)	0.94[d] (0.89, 0.97)	0.42[b] (0.13, 0.63)	0.84[d] (0.72, 0.91)	0.60[d] (0.36, 76)
	Validation		0.89[d] (0.80, 0.94)	0.79[d] (0.64, 0.88)	0.88[d] (0.79, 0.93)	0.66[d] (0.45, 0.80)	0.73[d] (0.54, 0.84)	0.64[d] (0.42, 0.79)
Coverage PI	**Development**		1	0.69[d] (0.49, 0.82)	0.95[d] (0.91, 0.97)	0.41[b] (0.12, 0.63)	0.90[d] (0.81, 0.94)	0.60[d] (0.36, 0.76)
	Validation			0.80[d] (0.64, 0.88)	0.96[d] (0.92, 0.98)	0.62[d] (0.39, 0.77)	0.87[d] (0.76, 0.92)	0.65[d] (0.43, 0.79)
Informed Coverage	**Development**			1	0.78[d] (0.62, 0.87)	.74[d] (0.55, 0.85)	0.59[d] (0.34, 0.75)	0.81[d] (0.66, 0.89)
	Validation				0.84[d] (0.71, 0.91)	0.86[d] (0.75, 0.92)	0.64[d] (0.41, 0.78)	0.75[d] (0.57, 0.85)
Continuity Ratio	**Development**				1	0.51[c] (0.25, 0.70)	0.87[d] (0.76, 0.92)	0.69[d] (0.49, 0.82)
	Validation					0.73[d] (0.54, 0.84)	0.85[d] (0.73, 0.91)	0.75[d] (0.57, 0.85)
Appendicitis Coverage*	**Development**					1	0.29 (-0.01, 0.54)	0.72[d] (0.53, 0.83)
	Validation						0.48[b] (0.20, 0.68)	0.76[d] (0.59, 0.86)
Duration	**Development**						1	0.44[d] (0.15, 0.65)
	Validation							0.50[c] (0.23, 0.69)

APPENDIX IVc: Median Absolute Errors

		Informed Coverage	Continuity Ratio	Coverage PE	Coverage PI	Appendicitis Coverage
ACS	**Development**	4.14%	4.06%	5.17%	9.38%	4.49%
			IC vs. CR P = 0.962	IC vs. PE P = 0.1355	IC vs PI P < 0.0001	
	Validation	2.69%	4.09%	6.39%	5.54%	3.76%
			IC vs. CR P = 0.035	IC vs. PE P < 0.0001	IC vs PI P = 0.0022	
Appendicitis	**Development**	2.33%	4.06%	7.93%	5.05%	N/A
			IC vs. CR P < 0.0001	IC vs. PE P < 0.0001	IC vs PI P < 0.0001	
	Validation	2.75%	5.69%	7.42%	5.58%	N/A
			IC vs. CR P < 0.0001	IC vs. PE P < 0.0001	IC vs PI P < 0.0001	

APPENDIX V: PREDICTIVE VALIDITY

APPENDIX Va: CHIPRA Outcome Table

ADHD

Dependent variable: *likelihood to receive at least three follow-up care visits within 10 months after the first prescription of medication for ADHD, one of which occurred within the first 30 days. We coded the receiving of follow-up care as a 1, and lack or care as a 0.*

Illinois (N= 2,785)

All new enrollees– 6 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.520	0.523	0.530	0.559	0.578	0.582	0.598
Intercept (log odds)	-0.7376[d]	-0.7540[d]	-0.7546[d]	-0.8547[d]	-1.0254[d]	-1.1570[d]	-1.0753[d]
Centered Frequency at 6 months	0.991	0.992	0.992	0.991	0.989	0.993	0.989
Age							
6-12 years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1-5 years old	/	1.273	1.273	1.300	1.252	1.281	1.251
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.002	1.023	1.041	1.049	1.057
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.195	1.175	1.052	1.027
Hispanic	/	/	/	1.698[c]	1.649[b]	1.475[b]	1.332
Other	/	/	/	1.255	1.272	1.177	1.139
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.500[d]	1.505[d]	1.499[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	--	--
Urban Cluster	/	/	/	/	/	0.967	0.988
Urbanized Area	/	/	/	/	/	1.302[a]	1.128
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.920
25-50% income level	/	/	/	/	/	/	1.215
< 25% income level	/	/	/	/	/	/	0.795
Missing income level	/	/	/	/	/	/	0.559[a]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.379[a]
25-50% with HS Degree	/	/	/	/	/	/	1.166
< 25% with HS Degree	/	/	/	/	/	/	1.453
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.956
50-75% below FPL	/	/	/	/	/	/	1.062
≥ 75% below FPL	/	/	/	/	/	/	1.404

[a] p<0.05, [b] p<0.01, [c] p<0.001, [d] p<0.0001

ADHD

Dependent variable: *likelihood to receive at least three follow-up care visits within 10 months after the first prescription of medication for ADHD, one of which occurred within the first 30 days. We coded the receiving of follow-up care as a 1, and lack or care as a 0.*

Louisiana (N= 2,596)

All new enrollees– 6 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.520	0.527	0.527	0.533	0.560	0.561	0.573
Intercept (log odds)	-0.4637[d]	-0.4889[d]	-0.4969[d]	-0.5107[d]	-0.6301[d]	-0.7978[d]	-0.7804[d]
Centered Frequency at 6 months	0.943	0.943	0.943	0.942	0.940	0.938	0.944
Age							
6-12 years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1-5 years old	/	1.366[a]	1.368[a]	1.335	1.330	1.341[a]	1.325
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.027	1.034	1.051	1.052	1.049
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.958	0.937	0.925	0.973
Hispanic	/	/	/	2.104[b]	2.095[b]	2.110[b]	2.124[b]
Other	/	/	/	1.220	1.190	1.197	1.205
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.459[d]	1.458[d]	1.457[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.909	0.678
Urban Cluster	/	/	/	/	/	1.272	1.277
Urbanized Area	/	/	/	/	/	1.203	1.159
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.017
25-50% income level	/	/	/	/	/	/	1.339
< 25% income level	/	/	/	/	/	/	1.011
Missing income level	/	/	/	/	/	/	0.728
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.108
25-50% with HS Degree	/	/	/	/	/	/	1.176
< 25% with HS Degree	/	/	/	/	/	/	1.072
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.864
50-75% below FPL	/	/	/	/	/	/	0.961
≥ 75% below FPL	/	/	/	/	/	/	0.994

[a] p<0.05, [b] p<0.01, [c] p<0.001, [d] p<0.0001

ADHD

Dependent variable: *likelihood to receive at least three follow-up care visits within 10 months after the first prescription of medication for ADHD, one of which occurred within the first 30 days. We coded the receiving of follow-up care as a 1, and lack or care as a 0.*

Illinois (N= 2,785)

All new enrollees– 12 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.505	0.503	0.502	0.555	0.577	0.582	0.598
Intercept (log odds)	-0.7427[d]	-0.7588[d]	-0.7598[d]	-0.8641[d]	-1.0362[d]	-1.1738[d]	-1.0933[d]
Centered Frequency at 12 months	0.994	0.995	0.995	0.992	0.990	0.992	0.988[a]
Age							
6-12 years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1-5 years old	/	1.274	1.274	1.298	1.250	1.279	1.247
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.004	1.023	1.041	1.049	1.056
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.206	1.189	1.057	1.035
Hispanic	/	/	/	1.715[d]	1.669[c]	1.485[b]	1.339
Other	/	/	/	1.262	1.280	1.180	1.143
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.499[d]	1.506[d]	1.501[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	--	--
Urban Cluster	/	/	/	/	/	0.967	0.988
Urbanized Area	/	/	/	/	/	1.320[a]	1.144
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.913
25-50% income level	/	/	/	/	/	/	1.216
< 25% income level	/	/	/	/	/	/	0.786
Missing income level	/	/	/	/	/	/	0.549[b]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.384[a]
25-50% with HS Degree	/	/	/	/	/	/	1.177
< 25% with HS Degree	/	/	/	/	/	/	1.476[a]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.957
50-75% below FPL	/	/	/	/	/	/	1.064
≥ 75% below FPL	/	/	/	/	/	/	1.409

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

ADHD

Dependent variable: *likelihood to receive at least three follow-up care visits within 10 months after the first prescription of medication for ADHD, one of which occurred within the first 30 days. We coded the receiving of follow-up care as a 1, and lack or care as a 0.*

Louisiana (N= 2,596)

All new enrollees– 12 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.513	0.520	0.520	0.533	0.557	0.561	0.571
Intercept (log odds)	-0.4703[d]	-0.4961[d]	-0.5036[d]	-0.5250[d]	-0.6469[d]	-0.8384[d]	-0.8206[d]
Centered Frequency at 12 months	0.980	0.980	0.980	0.978	0.976	0.972	0.977
Age							
6-12 years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1-5 years old	/	1.372[a]	1.374[a]	1.342[a]	1.337	1.348	1.329
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.025	1.034	1.051	1.052[a]	1.049
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.976	0.957	0.947	0.983
Hispanic	/	/	/	2.135[b]	2.132[b]	2.147[b]	2.144[b]
Other	/	/	/	1.237	1.209	1.215	1.216
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.462[d]	1.461[d]	1.459[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.922	0.690
Urban Cluster	/	/	/	/	/	1.277	1.276
Urbanized Area	/	/	/	/	/	1.242	1.198
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.023
25-50% income level	/	/	/	/	/	/	1.348
< 25% income level	/	/	/	/	/	/	1.009
Missing income level	/	/	/	/	/	/	0.720
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.086
25-50% with HS Degree	/	/	/	/	/	/	1.179
< 25% with HS Degree	/	/	/	/	/	/	1.085
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.868
50-75% below FPL	/	/	/	/	/	/	0.980
≥ 75% below FPL	/	/	/	/	/	/	1.016

[a] p<0.05, [b] p<0.01, [c] p<0.001, [d] p<0.0001

ADHD

Dependent variable: *likelihood to receive at least three follow-up care visits within 10 months after the first prescription of medication for ADHD, one of which occurred within the first 30 days. We coded the receiving of follow-up care as a 1, and lack or care as a 0.*

Illinois (N= 2,785)

All new enrollees– 18 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.513	0.514	0.519	0.542	0.573	0.580	0.597
Intercept (log odds)	-0.7371[d]	-0.7535[d]	-0.7561[d]	-0.8614[d]	-1.0343[d]	-1.1817[d]	-1.1085[d]
Centered Frequency at 18 months	1.002	1.002	1.002	0.998	0.996	0.995	0.990
Age							
6-12 years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1-5 years old	/	1.284	1.285	1.307	1.258	1.285	1.254
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.009	1.027	1.045	1.051	1.057
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.199	1.184	1.053	1.035
Hispanic	/	/	/	1.697[c]	1.657[c]	1.476[b]	1.340
Other	/	/	/	1.257	1.276	1.176	1.141
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.493[d]	1.504[d]	1.500[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	--	--
Urban Cluster	/	/	/	/	/	0.967	0.990
Urbanized Area	/	/	/	/	/	1.335[a]	1.166
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.913
25-50% income level	/	/	/	/	/	/	1.216
< 25% income level	/	/	/	/	/	/	0.783
Missing income level	/	/	/	/	/	/	0.553[b]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.380[a]
25-50% with HS Degree	/	/	/	/	/	/	1.165
< 25% with HS Degree	/	/	/	/	/	/	1.467
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.958
50-75% below FPL	/	/	/	/	/	/	1.066
≥ 75% below FPL	/	/	/	/	/	/	1.405

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

ADHD

Dependent variable: *likelihood to receive at least three follow-up care visits within 10 months after the first prescription of medication for ADHD, one of which occurred within the first 30 days. We coded the receiving of follow-up care as a 1, and lack or care as a 0.*

Louisiana (N= 2,596)

All new enrollees– 18 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.517	0.526	0.525	0.534	0.558	0.563	0.571
Intercept (log odds)	-0.4742[d]	-0.5001[d]	-0.5067[d]	-0.5309[d]	-0.6537[d]	-0.8422[d]	-0.8173[d]
Centered Frequency at 18 months	0.983	0.983	0.983	0.982	0.981	0.978	0.982
Age							
6-12 years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1-5 years old	/	1.373[a]	1.375[a]	1.342[a]	1.338[a]	1.349[a]	1.330
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.022	1.031	1.048	1.048	1.046
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.985	0.967	0.956	0.986
Hispanic	/	/	/	2.132[b]	2.129[b]	2.142[b]	2.141[b]
Other	/	/	/	1.236	1.207	1.213	1.215
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.464[d]	1.463[d]	1.460[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.915	0.679
Urban Cluster	/	/	/	/	/	1.279	1.274
Urbanized Area	/	/	/	/	/	1.236	1.192
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.018
25-50% income level	/	/	/	/	/	/	1.357
< 25% income level	/	/	/	/	/	/	1.004
Missing income level	/	/	/	/	/	/	0.721
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.072
25-50% with HS Degree	/	/	/	/	/	/	1.157
< 25% with HS Degree	/	/	/	/	/	/	1.061
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.874
50-75% below FPL	/	/	/	/	/	/	1.000
≥ 75% below FPL	/	/	/	/	/	/	1.042

[a] p<0.05, [b] p<0.01, [c] p<0.001, [d] p<0.0001

Asthma-Related Emergency Room Visits
Dependent variable: *likelihood of never experiencing an asthma-related emergency room visit.*
Illinois (N=5,638)

All new enrollees– 6 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.522	0.540	0.532	0.610	0.616	0.618	0.623
Intercept (log odds)	1.7071[d]	1.8914[d]	1.8975[d]	2.2790[d]	1.5283[d]	1.6422[d]	1.5985[d]
Centered Frequency at 6 months	1.005	1.005	1.005	1.005	1.005	1.005	1.005
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	0.871	0.870	0.837	0.839	0.839	0.834
1-5 Years Old	/	0.738[b]	0.737[b]	0.704[b]	0.706[b]	0.707[b]	0.704[b]
<1 Year Old	/	0.990	0.990	1.004	0.998	0.997	0.994
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.988	0.987	0.985	0.985	0.989
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.445[d]	0.448[d]	0.446[d]	0.449[d]
Hispanic	/	/	/	0.988	1.002	0.995	0.986
Other	/	/	/	0.744	0.761	0.756	0.754
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	2.174[d]	2.181[d]	2.169[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.188	0.174
Urban Cluster	/	/	/	/	/	0.818	0.855
Urbanized Area	/	/	/	/	/	0.898	0.889
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.112
25-50% income level	/	/	/	/	/	/	1.387
< 25% income level	/	/	/	/	/	/	0.984
Missing income level	/	/	/	/	/	/	0.989
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	0.974
25-50% with HS Degree	/	/	/	/	/	/	0.874
< 25% with HS Degree	/	/	/	/	/	/	1.058
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.189
50-75% below FPL	/	/	/	/	/	/	0.962
≥ 75% below FPL	/	/	/	/	/	/	1.087

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Asthma-Related Emergency Room Visits
Dependent variable: *likelihood of never experiencing an asthma-related emergency room visit.*
Louisiana (N=3,934)

All new enrollees– 6 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.559	0.568	0.576	0.651	0.654	0.659	0.668
Intercept (log odds)	1.8109[d]	1.9659[d]	1.8446[d]	2.5005[d]	1.9438[d]	2.1595[d]	2.1105[d]
Centered Frequency at 6 months	0.844[d]	0.847[d]	0.846[d]	0.913[a]	0.912[a]	0.930	0.951
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	0.908	0.929	0.946	0.946	0.948	0.947
1-5 Years Old	/	0.795	0.809	0.775	0.774	0.777	0.778
<1 Year Old	/	0.510[a]	0.535[a]	0.550	0.559	0.569	0.569
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.291[b]	1.312[b]	1.322[b]	1.318[b]	1.313[b]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.346[d]	0.342[d]	0.359[d]	0.371[d]
Hispanic	/	/	/	0.925	0.912	0.989	1.012
Other	/	/	/	0.632[a]	0.629[a]	0.655[a]	0.661
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.784[a]	1.840[a]	1.867[a]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	2.391	2.281
Urban Cluster	/	/	/	/	/	0.879	0.833
Urbanized Area	/	/	/	/	/	0.696	0.689
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.707
25-50% income level	/	/	/	/	/	/	1.059
< 25% income level	/	/	/	/	/	/	0.839
Missing income level	/	/	/	/	/	/	0.588
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.043
25-50% with HS Degree	/	/	/	/	/	/	1.610[a]
< 25% with HS Degree	/	/	/	/	/	/	1.531
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.258
50-75% below FPL	/	/	/	/	/	/	0.980
≥ 75% below FPL	/	/	/	/	/	/	1.050

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Asthma-Related Emergency Room Visits

Dependent variable: *likelihood of never experiencing an asthma-related emergency room visit.*

Illinois (N=5,638)

All new enrollees– 12 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.508	0.532	0.528	0.610	0.618	0.618	0.624
Intercept (log odds)	1.7080[d]	1.8926[d]	1.8987[d]	2.2848[d]	1.5326[d]	1.6543[d]	1.6092[d]
Centered Frequency at 12 months	1.004	1.004	1.004	1.007	1.007	1.007	1.007
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	0.871	0.870	0.837	0.838	0.839	0.833
1-5 Years Old	/	0.738[b]	0.737[b]	0.704[b]	0.706[b]	0.707[b]	0.704[b]
<1 Year Old	/	0.990	0.989	1.006	1.000	0.999	0.995
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.988	0.987	0.985	0.985	0.989
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.441[d]	0.444[d]	0.444[d]	0.447[d]
Hispanic	/	/	/	0.977	0.991	0.988	0.982
Other	/	/	/	0.739	0.756	0.753	0.753
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	2.178[d]	2.184[d]	2.171[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.188	0.174
Urban Cluster	/	/	/	/	/	0.817	0.852
Urbanized Area	/	/	/	/	/	0.887	0.881
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.114
25-50% income level	/	/	/	/	/	/	1.391
< 25% income level	/	/	/	/	/	/	0.989
Missing income level	/	/	/	/	/	/	1.002
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	0.973
25-50% with HS Degree	/	/	/	/	/	/	0.867
< 25% with HS Degree	/	/	/	/	/	/	1.045
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.189
50-75% below FPL	/	/	/	/	/	/	0.962
≥ 75% below FPL	/	/	/	/	/	/	1.083

[a] p<0.05, [b] p<0.01, [c] p<0.001, [d] p<0.0001

Asthma-Related Emergency Room Visits
Dependent variable: *likelihood of never experiencing an asthma-related emergency room visit.*
Louisiana (N=3,934)

All new enrollees– 12 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.574	0.582	0.591	0.652	0.656	0.660	0.668
Intercept (log odds)	1.8429[d]	1.9973[d]	1.8758[d]	2.4769[d]	1.9166[d]	2.1175[d]	2.0558[d]
Centered Frequency at 12 months	0.911[d]	0.912[d]	0.912[d]	0.958[b]	0.958[b]	0.971	0.975
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	0.906	0.928	0.944	0.944	0.947	0.947
1-5 Years Old	/	0.795	0.808	0.775	0.774	0.777	0.779
<1 Year Old	/	0.527[a]	0.552	0.554	0.564	0.570	0.572
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.293[b]	1.311[b]	1.321[b]	1.317[b]	1.312[b]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.364[d]	0.360[d]	0.367[d]	0.376[d]
Hispanic	/	/	/	0.973	0.960	1.012	1.031
Other	/	/	/	0.657[a]	0.654[a]	0.667	0.670
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.791[a]	1.834[a]	1.864[a]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	2.407	2.302
Urban Cluster	/	/	/	/	/	0.887	0.835
Urbanized Area	/	/	/	/	/	0.729	0.724
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.705
25-50% income level	/	/	/	/	/	/	1.078
< 25% income level	/	/	/	/	/	/	0.843
Missing income level	/	/	/	/	/	/	0.586
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.036
25-50% with HS Degree	/	/	/	/	/	/	1.612[a]
< 25% with HS Degree	/	/	/	/	/	/	1.536
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.275
50-75% below FPL	/	/	/	/	/	/	1.001
≥ 75% below FPL	/	/	/	/	/	/	1.077

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Asthma-Related Emergency Room Visits
Dependent variable: *likelihood of never experiencing an asthma-related emergency room visit.*
Illinois (N=5,638)

All new enrollees– 18 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.491	0.528	0.526	0.612	0.617	0.618	0.625
Intercept (log odds)	1.7089[d]	1.8934[d]	1.8995[d]	2.2928[d]	1.5404[d]	1.6722[d]	1.6227[d]
Centered Frequency at 18 months	1.002	1.002	1.002	1.008	1.008	1.008	1.009
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	0.871	0.870	0.837	0.838	0.838	0.833
1-5 Years Old	/	0.738[b]	0.737[b]	0.704[b]	0.707[b]	0.707[b]	0.704[b]
<1 Year Old	/	0.989	0.988	1.006	1.000	1.000	0.996
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.988	0.987	0.985	0.985	0.989
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.436[d]	0.439[d]	0.441[d]	0.445[d]
Hispanic	/	/	/	0.964	0.977	0.980	0.978
Other	/	/	/	0.732	0.748	0.750	0.750
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	2.180[d]	2.185[d]	2.171[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.186	0.171
Urban Cluster	/	/	/	/	/	0.816	0.849
Urbanized Area	/	/	/	/	/	0.872	0.869
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.116
25-50% income level	/	/	/	/	/	/	1.396
< 25% income level	/	/	/	/	/	/	0.997
Missing income level	/	/	/	/	/	/	1.015
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	0.973
25-50% with HS Degree	/	/	/	/	/	/	0.863
< 25% with HS Degree	/	/	/	/	/	/	1.035
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.189
50-75% below FPL	/	/	/	/	/	/	0.962
≥ 75% below FPL	/	/	/	/	/	/	1.077

[a] p<0.05, [b] p<0.01, [c] p<0.001, [d] p<0.0001

Asthma-Related Emergency Room Visits
Dependent variable: *likelihood of never experiencing an asthma-related emergency room visit.*
Louisiana (N= 3,934)

All new enrollees– 18 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.584	0.589	0.597	0.654	0.658	0.661	0.668
Intercept (log odds)	1.8526[d]	2.0162[d]	1.8952[d]	2.4696[d]	1.9049[d]	2.0904[d]	2.0316[d]
Centered Frequency at 18 months	0.933[d]	0.933[d]	0.933[d]	0.966[b]	0.966[c]	0.973[a]	0.976[a]
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	0.895	0.916	0.936	0.936	0.940	0.941
1-5 Years Old	/	0.788	0.800	0.772	0.771	0.774	0.777
<1 Year Old	/	0.532[a]	0.555	0.557	0.566	0.574	0.574
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.293	1.309[b]	1.319[b]	1.316[b]	1.311[b]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.376[d]	0.373[d]	0.380[d]	0.382[d]
Hispanic	/	/	/	0.973	0.961	1.015	1.033
Other	/	/	/	0.662	0.660	0.675	0.674
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.799[a]	1.841[a]	1.869[a]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	2.423	2.310
Urban Cluster	/	/	/	/	/	0.896	0.839
Urbanized Area	/	/	/	/	/	0.743	0.738
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.697
25-50% income level	/	/	/	/	/	/	1.090
< 25% income level	/	/	/	/	/	/	0.841
Missing income level	/	/	/	/	/	/	0.593
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.021
25-50% with HS Degree	/	/	/	/	/	/	1.557[a]
< 25% with HS Degree	/	/	/	/	/	/	1.477
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.300
50-75% below FPL	/	/	/	/	/	/	1.041
≥ 75% below FPL	/	/	/	/	/	/	1.141

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Preventive Dental Services

Dependent variable: *likelihood of receiving at least one preventive dental service per calendar year*

Illinois (N= 260,936)

All new enrollees– 6 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.513	0.703	0.703	0.732	0.742	0.743	0.744
Intercept (log odds)	-2.0431[d]	-2.0341[d]	-2.0061[d]	-2.3241[d]	-2.4611[d]	-2.5357[d]	-2.5507[d]
Centered Frequency at 6 months	1.027[d]	1.034[d]	1.034[d]	1.031[d]	1.029[d]	1.031[d]	1.029[d]
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	1.835[d]	1.834[d]	1.830[d]	1.819[d]	1.818[d]	1.822[d]
1-5 Years Old	/	1.655[d]	1.653[d]	1.652[d]	1.597[d]	1.597[d]	1.602[d]
<1 Year Old	/	0.214[d]	0.213[d]	0.200[d]	0.177[d]	0.177[d]	0.176[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.949[d]	0.943[d]	0.986	0.985	0.985
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.310[d]	1.306[d]	1.210[d]	1.194[d]
Hispanic	/	/	/	2.125[d]	2.172[d]	2.015[d]	1.809[d]
Other	/	/	/	1.349[d]	1.403[d]	1.317[d]	1.294[d]
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.785[d]	1.793[d]	1.789[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	1.277	1.354
Urban Cluster	/	/	/	/	/	0.908[b]	0.899[b]
Urbanized Area	/	/	/	/	/	1.171[d]	1.152[d]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.943[b]
25-50% income level	/	/	/	/	/	/	1.063
< 25% income level	/	/	/	/	/	/	0.947
Missing income level	/	/	/	/	/	/	1.013
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.043
25-50% with HS Degree	/	/	/	/	/	/	1.154[d]
< 25% with HS Degree	/	/	/	/	/	/	1.433[d]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.011
50-75% below FPL	/	/	/	/	/	/	0.984
≥ 75% below FPL	/	/	/	/	/	/	0.826[d]

[a] p<0.05, [b] p<0.01, [c] p<0.001, [d] p<0.0001

Preventive Dental Services

Dependent variable: *likelihood of receiving at least one preventive dental service per calendar year*

Louisiana (N= 104,470)

All new enrollees– 6 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.553	0.751	0.751	0.752	0.756	0.762	0.764
Intercept (log odds)	-1.4930[d]	-1.0139[d]	-1.0511[d]	-1.0698[d]	-1.1334[d]	-1.1901[d]	-1.1424[d]
Centered Frequency at 6 months	1.169[d]	1.114[d]	1.114[d]	1.111[d]	1.110[d]	1.097[d]	1.112[d]
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	1.414[d]	1.417[d]	1.419[d]	1.410[d]	1.420[d]	1.422[d]
1-5 Years Old	/	1.051[a]	1.053[a]	1.059[a]	1.034	1.048	1.053[a]
<1 Year Old	/	0.080[d]	0.080[d]	0.080[d]	0.075[d]	0.075[d]	0.075[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.075[d]	1.074[d]	1.091[d]	1.091[d]	1.091[d]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.039[a]	1.038[a]	1.005	1.045 [a]
Hispanic	/	/	/	0.918[a]	0.920[a]	0.910[a]	0.910[a]
Other	/	/	/	1.025	1.021	0.995	1.003
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.321[d]	1.307[d]	1.306[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.278[d]	0.240[d]
Urban Cluster	/	/	/	/	/	0.960	0.991
Urbanized Area	/	/	/	/	/	1.154[d]	1.137[d]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.028
25-50% income level	/	/	/	/	/	/	1.087
< 25% income level	/	/	/	/	/	/	0.887[b]
Missing income level	/	/	/	/	/	/	0.990
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	0.951
25-50% with HS Degree	/	/	/	/	/	/	1.069
< 25% with HS Degree	/	/	/	/	/	/	1.064
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.955
50-75% below FPL	/	/	/	/	/	/	0.962
≥ 75% below FPL	/	/	/	/	/	/	0.830[c]

[a] p<0.05, [b] p<0.01, [c] p<0.001, [d] p<0.0001

Preventive Dental Services

Dependent variable: *likelihood of receiving at least one preventive dental service per calendar year.*

Illinois (N= 260,936)

All new enrollees– 12 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.538	0.714	0.714	0.733	0.743	0.743	0.745
Intercept (log odds)	-2.0493[d]	-2.0415[d]	-2.0130[d]	-2.2977[d]	-2.4360[d]	-2.4701[d]	-2.4974[d]
Centered Frequency at 12 months	1.035[d]	1.045[d]	1.045[d]	1.036[d]	1.034[d]	1.034[d]	1.031[d]
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	1.838[d]	1.836[d]	1.831[d]	1.820[d]	1.819[d]	1.823[d]
1-5 Years Old	/	1.660[d]	1.658[d]	1.654[d]	1.600[d]	1.599[d]	1.603[d]
<1 Year Old	/	0.212[d]	0.211[d]	0.200[d]	0.177[d]	0.176[d]	0.176[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.947[d]	0.942[d]	0.986	0.985	0.985
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.252[d]	1.250[d]	1.188[d]	1.178[d]
Hispanic	/	/	/	2.025[d]	2.073[d]	1.972[d]	1.789[d]
Other	/	/	/	1.300[d]	1.354[d]	1.298[d]	1.280[d]
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.785[d]	1.792[d]	1.789[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	1.286	1.364
Urban Cluster	/	/	/	/	/	0.907[b]	0.897[b]
Urbanized Area	/	/	/	/	/	1.096[b]	1.093[b]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.947[a]
25-50% income level	/	/	/	/	/	/	1.055
< 25% income level	/	/	/	/	/	/	0.966
Missing income level	/	/	/	/	/	/	1.042
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.033
25-50% with HS Degree	/	/	/	/	/	/	1.135[d]
< 25% with HS Degree	/	/	/	/	/	/	1.394[d]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.014
50-75% below FPL	/	/	/	/	/	/	0.981
≥ 75% below FPL	/	/	/	/	/	/	0.818[d]

[a] p<0.05, [b] p<0.01, [c] p<0.001, [d] p<0.0001

Preventive Dental Services

Dependent variable: *likelihood of receiving at least one preventive dental service per calendar year.*

Louisiana (N= 104,470)

All new enrollees– 12 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.562	0.755	0.755	0.756	0.759	0.763	0.766
Intercept (log odds)	-1.4990[d]	-1.0211[d]	-1.0576[d]	-1.0337[d]	-1.0970[d]	-1.1088[d]	-1.0195[d]
Centered Frequency at 12 months	1.081[d]	1.058[d]	1.058[d]	1.060[d]	1.059[d]	1.053[d]	1.061[d]
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	1.418[d]	1.420[d]	1.420[d]	1.411[d]	1.422[d]	1.424[d]
1-5 Years Old	/	1.051[a]	1.053[a]	1.057[a]	1.033	1.048	1.052[a]
<1 Year Old	/	0.080[d]	0.080[d]	0.080[d]	0.076[d]	0.075[d]	0.076[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.073[d]	1.074[d]	1.090[d]	1.091[d]	1.091[d]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.965	0.964	0.955[a]	1.005
Hispanic	/	/	/	0.868[c]	0.870[c]	0.881[b]	0.880[b]
Other	/	/	/	0.974	0.970	0.965	0.975
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.316[d]	1.303[d]	1.304[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.264[d]	0.225[d]
Urban Cluster	/	/	/	/	/	0.953	0.990
Urbanized Area	/	/	/	/	/	1.065[a]	1.019
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.030
25-50% income level	/	/	/	/	/	/	1.051
< 25% income level	/	/	/	/	/	/	0.887[b]
Missing income level	/	/	/	/	/	/	1.010
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	0.980
25-50% with HS Degree	/	/	/	/	/	/	1.075
< 25% with HS Degree	/	/	/	/	/	/	1.056
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.925[a]
50-75% below FPL	/	/	/	/	/	/	0.906[a]
≥ 75% below FPL	/	/	/	/	/	/	0.769[d]

[a] p<0.05, [b] p<0.01, [c] p<0.001, [d] p<0.0001

Preventive Dental Services

Dependent variable: *likelihood of receiving at least one preventive dental service per calendar year.*

Illinois (N= 260,936)

All new enrollees– 18 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.549	0.719	0.720	0.734	0.744	0.744	0.745
Intercept (log odds)	-2.0550[d]	-2.0485[d]	-2.0188[d]	-2.2692[d]	-2.4085[d]	-2.3990[d]	-2.4443[d]
Centered Frequency at 18 months	1.040[d]	1.052[d]	1.052[d]	1.039[d]	1.038[d]	1.037[d]	1.035[d]
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	1.841[d]	1.840[d]	1.832[d]	1.822[d]	1.821[d]	1.825[d]
1-5 Years Old	/	1.665[d]	1.664[d]	1.656[d]	1.602[d]	1.602[d]	1.606[d]
<1 Year Old	/	0.210[d]	0.210[d]	0.199[d]	0.176[d]	0.176[d]	0.175[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.946[d]	0.942[d]	0.985	0.985	0.984
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.191[d]	1.191[d]	1.162[d]	1.157[d]
Hispanic	/	/	/	1.923[d]	1.970[d]	1.923[d]	1.764[d]
Other	/	/	/	1.248[d]	1.301[d]	1.274[d]	1.263[d]
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.788[d]	1.793[d]	1.789[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	1.238	1.326
Urban Cluster	/	/	/	/	/	0.905[b]	0.891[c]
Urbanized Area	/	/	/	/	/	1.020	1.035
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.949[a]
25-50% income level	/	/	/	/	/	/	1.053
< 25% income level	/	/	/	/	/	/	0.989
Missing income level	/	/	/	/	/	/	1.081[a]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.028
25-50% with HS Degree	/	/	/	/	/	/	1.123[d]
< 25% with HS Degree	/	/	/	/	/	/	1.356[d]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.016
50-75% below FPL	/	/	/	/	/	/	0.979
≥ 75% below FPL	/	/	/	/	/	/	0.803[d]

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Preventive Dental Services

Dependent variable: *likelihood of receiving at least one preventive dental service per calendar year.*

Louisiana (N= 104,470)

All new enrollees– 18 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.569	0.757	0.757	0.758	0.761	0.765	0.768
Intercept (log odds)	-1.5010[d]	-1.0251[d]	-1.0615[d]	-1.0253[d]	-1.0885[d]	-1.0983[d]	-1.0135[d]
Centered Frequency at 18 months	1.058[d]	1.042[d]	1.042[d]	1.044[d]	1.044[d]	1.040[d]	1.048[d]
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	1.422[d]	1.424[d]	1.423[d]	1.414[d]	1.425[d]	1.427[d]
1-5 Years Old	/	1.053[a]	1.055[a]	1.057[a]	1.033	1.048	1.053[a]
<1 Year Old	/	0.081[d]	0.081[d]	0.081[d]	0.076[d]	0.076[d]	0.076[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.073[d]	1.074[d]	1.090[d]	1.091[d]	1.091[d]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.942[b]	0.941[b]	0.930[c]	0.988
Hispanic	/	/	/	0.870[c]	0.871[c]	0.879[b]	0.882[b]
Other	/	/	/	0.970	0.967	0.958	0.973
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.315[d]	1.302[d]	1.301[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.263[d]	0.226[d]
Urban Cluster	/	/	/	/	/	0.942	0.981
Urbanized Area	/	/	/	/	/	1.068[a]	1.020
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.041
25-50% income level	/	/	/	/	/	/	1.034
< 25% income level	/	/	/	/	/	/	0.896[a]
Missing income level	/	/	/	/	/	/	1.004
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.010
25-50% with HS Degree	/	/	/	/	/	/	1.139[c]
< 25% with HS Degree	/	/	/	/	/	/	1.122[b]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.898[b]
50-75% below FPL	/	/	/	/	/	/	0.855[c]
≥ 75% below FPL	/	/	/	/	/	/	0.710[d]

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Dental Treatment Services

Dependent variable: *likelihood of receiving at least one dental treatment service per calendar year*

Illinois (N= 260,936)

All new enrollees– 6 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.500	0.735	0.736	0.766	0.773	0.774	0.776
Intercept (log odds)	-2.7376[d]	-2.2901[d]	-2.2626[d]	-2.4751[d]	-2.5767[d]	-2.7054[d]	-2.26959[d]
Centered Frequency at 6 months	1.021[d]	1.028[d]	1.028[d]	1.025[d]	1.024[d]	1.026[d]	1.023[d]
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	1.299[d]	1.298[d]	1.281[d]	1.271[d]	1.269[d]	1.267[d]
1-5 Years Old	/	0.889[d]	0.888[d]	0.875[d]	0.849[d]	0.848[d]	0.849[d]
<1 Year Old	/	0.017[d]	0.017[d]	0.016[d]	0.015[d]	0.015[d]	0.015[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.949[b]	0.946[c]	0.977	0.976	0.977
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.959	0.954	0.886[d]	0.971
Hispanic	/	/	/	1.942[d]	1.970[d]	1.829[d]	1.744[d]
Other	/	/	/	1.280[d]	1.318[d]	1.240[d]	1.235[d]
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.576[d]	1.581[d]	1.583[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.512	0.530
Urban Cluster	/	/	/	/	/	0.998	1.011
Urbanized Area	/	/	/	/	/	1.234[d]	1.230[d]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.996
25-50% income level	/	/	/	/	/	/	0.968
< 25% income level	/	/	/	/	/	/	0.989
Missing income level	/	/	/	/	/	/	0.987
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.082[b]
25-50% with HS Degree	/	/	/	/	/	/	1.118[b]
< 25% with HS Degree	/	/	/	/	/	/	1.334[d]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.967
50-75% below FPL	/	/	/	/	/	/	0.874[c]
≥ 75% below FPL	/	/	/	/	/	/	0.678[d]

[a] p<0.05, [b] p<0.01, [c] p<0.001, [d] p<0.0001

Dental Treatment Services

Dependent variable: *likelihood of receiving at least one dental treatment service per calendar year*

Louisiana (N= 104,470)

All new enrollees– 6 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.532	0.757	0.758	0.761	0.764	0.768	0.771
Intercept (log odds)	-2.0804	-1.3376[d]	-1.3712[d]	-1.3097[d]	-1.3578[d]	-1.3237[d]	-1.2930[d]
Centered Frequency at 6 months	1.103	1.042[d]	1.042[d]	1.050[d]	1.049[d]	1.042[d]	1.057[d]
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	1.074[b]	1.075[b]	1.073[b]	1.067[a]	1.073[b]	1.075[b]
1-5 Years Old	/	0.650[d]	0.651[d]	0.650[d]	0.638[d]	0.646[d]	0.648[d]
<1 Year Old	/	0.027[d]	0.027[d]	0.027[d]	0.025[d]	0.025[d]	0.026[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.067[b]	1.069[b]	1.080[c]	1.081[c]	1.081[c]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.893[d]	0.891[d]	0.881[d]	0.921[c]
Hispanic	/	/	/	0.834[c]	0.835[c]	0.844[c]	0.846[b]
Other	/	/	/	1.012	1.007	1.001	1.014
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.238[d]	1.226[d]	1.226[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.289[d]	0.265[d]
Urban Cluster	/	/	/	/	/	0.907[a]	0.943
Urbanized Area	/	/	/	/	/	1.010	1.007
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.041
25-50% income level	/	/	/	/	/	/	1.035
< 25% income level	/	/	/	/	/	/	0.875[a]
Missing income level	/	/	/	/	/	/	1.029
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	0.969
25-50% with HS Degree	/	/	/	/	/	/	1.145[b]
< 25% with HS Degree	/	/	/	/	/	/	1.080
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.924[a]
50-75% below FPL	/	/	/	/	/	/	0.937
≥ 75% below FPL	/	/	/	/	/	/	0.780[d]

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Dental Treatment Services

Dependent variable: *likelihood of receiving at least one dental treatment service per calendar year*

Illinois (N= 260,936)

All new enrollees– 12 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.519	0.740	0.741	0.766	0.773	0.774	0.776
Intercept (log odds)	-2.7403[d]	-2.2935[d]	-2.2655[d]	-2.4533[d]	-2.5560[d]	-2.6520[d]	-2.6544[d]
Centered Frequency at 12 months	1.026[d]	1.035[d]	1.035[d]	1.028[d]	1.027[d]	1.027[d]	1.024[d]
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	1.300[d]	1.299[d]	1.281[d]	1.271[d]	1.270[d]	1.267[d]
1-5 Years Old	/	0.890[d]	0.889[d]	0.876[d]	0.850[d]	0.849[d]	0.849[d]
<1 Year Old	/	0.017[d]	0.017[d]	0.016[d]	0.015[d]	0.015[d]	0.015[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.948[b]	0.945[c]	0.976	0.976	0.976
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.925[b]	0.922[c]	0.874[d]	0.962
Hispanic	/	/	/	1.869[d]	1.899[d]	1.801[d]	1.730[d]
Other	/	/	/	1.244[d]	1.282[d]	1.227[d]	1.226[d]
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.576[d]	1.581[d]	1.583[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.515	0.532
Urban Cluster	/	/	/	/	/	0.998	1.010
Urbanized Area	/	/	/	/	/	1.169[d]	1.180[d]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.000
25-50% income level	/	/	/	/	/	/	0.964
< 25% income level	/	/	/	/	/	/	1.006
Missing income level	/	/	/	/	/	/	1.009
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.075[a]
25-50% with HS Degree	/	/	/	/	/	/	1.104[b]
< 25% with HS Degree	/	/	/	/	/	/	1.308[d]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.969
50-75% below FPL	/	/	/	/	/	/	0.872[c]
≥ 75% below FPL	/	/	/	/	/	/	0.672[d]

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Dental Treatment Services

Dependent variable: *likelihood of receiving at least one dental treatment service per calendar year*

Louisiana (N= 104,470)

All new enrollees– 12 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.536	0.758	0.759	0.761	0.764	0.768	0.771
Intercept (log odds)	-2.0823[d]	-1.3393[d]	-1.3727[d]	-1.2918[d]	-1.3399[d]	-1.2855[d]	-1.2270[d]
Centered Frequency at 12 months	1.046[d]	1.020[d]	1.020[d]	1.028[d]	1.027[d]	1.024[d]	1.032[d]
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	1.075[b]	1.076[b]	1.073[b]	1.067[a]	1.074[b]	1.075[b]
1-5 Years Old	/	0.650[d]	0.651[d]	0.649[d]	0.637[d]	0.645[d]	0.648[d]
<1 Year Old	/	0.027[d]	0.027[d]	0.027[d]	0.026[d]	0.026[d]	0.026[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.067[b]	1.068[d]	1.080[c]	1.081[c]	1.081[c]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.862[d]	0.861[d]	0.860[d]	0.901[d]
Hispanic	/	/	/	0.813[d]	0.814[d]	0.832[c]	0.831[c]
Other	/	/	/	0.987	0.984	0.987	0.999
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.235[d]	1.224[d]	1.224[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.282[d]	0.257[d]
Urban Cluster	/	/	/	/	/	0.904[a]	0.942
Urbanized Area	/	/	/	/	/	0.973	0.950
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.041
25-50% income level	/	/	/	/	/	/	1.017
< 25% income level	/	/	/	/	/	/	0.875[a]
Missing income level	/	/	/	/	/	/	1.039
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	0.985
25-50% with HS Degree	/	/	/	/	/	/	1.150[b]
< 25% with HS Degree	/	/	/	/	/	/	1.077
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.909[a]
50-75% below FPL	/	/	/	/	/	/	0.907
≥ 75% below FPL	/	/	/	/	/	/	0.748[d]

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Dental Treatment Services

Dependent variable: *likelihood of receiving at least one dental treatment service per calendar year*

Illinois (N= 260,936)

All new enrollees– 18 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.526	0.744	0.744	0.767	0.774	0.774	0.776
Intercept (log odds)	-2.7428[d]	-2.2966[d]	-2.2677[d]	-2.4307[d]	-2.5342[d]	-2.5976[d]	-2.6148[d]
Centered Frequency at 18 months	1.028[d]	1.039[d]	1.039[d]	1.031[d]	1.030[d]	1.029[d]	1.026[d]
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	1.301[d]	1.300[d]	1.281[d]	1.271[d]	1.270[d]	1.268[d]
1-5 Years Old	/	0.891[d]	0.890[d]	0.876[d]	0.850[d]	0.850[d]	0.850[d]
<1 Year Old	/	0.017[d]	0.017[d]	0.016[d]	0.015[d]	0.015[d]	0.015[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.947[b]	0.945[c]	0.976	0.976	0.976
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.891[d]	0.889[d]	0.860[d]	0.950
Hispanic	/	/	/	1.797[d]	1.826[d]	1.769[d]	1.713[d]
Other	/	/	/	1.206[d]	1.244[d]	1.211[d]	1.214[d]
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.577[d]	1.581[d]	1.583[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.500	0.520
Urban Cluster	/	/	/	/	/	0.996	1.006
Urbanized Area	/	/	/	/	/	1.107[b]	1.133[b]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.003
25-50% income level	/	/	/	/	/	/	0.963
< 25% income level	/	/	/	/	/	/	1.024
Missing income level	/	/	/	/	/	/	1.036
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.072[a]
25-50% with HS Degree	/	/	/	/	/	/	1.097[b]
< 25% with HS Degree	/	/	/	/	/	/	1.283[d]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.970
50-75% below FPL	/	/	/	/	/	/	0.870[c]
≥ 75% below FPL	/	/	/	/	/	/	0.663[d]

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Dental Treatment Services

Dependent variable: *likelihood of receiving at least one dental treatment service per calendar year*

Louisiana (N= 104,470)

All new enrollees– 18 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.543	0.758	0.760	0.762	0.765	0.769	0.772
Intercept (log odds)	-2.0837[d]	-1.3411[d]	-1.3745[d]	-1.2856[d]	-1.3336[d]	-1.2750[d]	-1.2168[d]
Centered Frequency at 18 months	1.034[d]	1.016[d]	1.016[d]	1.022[d]	1.022[d]	1.020[d]	1.028[d]
Age							
≥13 Years Old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 Years Old	/	1.076[b]	1.077[b]	1.074[b]	1.068[a]	1.074[b]	1.076[b]
1-5 Years Old	/	0.650[d]	0.651[d]	0.649[d]	0.637[d]	0.645[d]	0.647[d]
<1 Year Old	/	0.027[d]	0.027[d]	0.027[d]	0.026[d]	0.026[d]	0.026[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.067[b]	1.068[b]	1.080[c]	1.080[c]	1.081[c]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.847[d]	0.847[d]	0.845[d]	0.890[d]
Hispanic	/	/	/	0.812[d]	0.813[d]	0.830[c]	0.832[c]
Other	/	/	/	0.983	0.980	0.982	0.996
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.234[d]	1.223[d]	1.222[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.281[d]	0.257[d]
Urban Cluster	/	/	/	/	/	0.899[b]	0.938
Urbanized Area	/	/	/	/	/	0.969	0.945
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.049
25-50% income level	/	/	/	/	/	/	1.005
< 25% income level	/	/	/	/	/	/	0.880[a]
Missing income level	/	/	/	/	/	/	1.037
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.004
25-50% with HS Degree	/	/	/	/	/	/	1.192[c]
< 25% with HS Degree	/	/	/	/	/	/	1.119[a]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.890[b]
50-75% below FPL	/	/	/	/	/	/	0.873[b]
≥ 75% below FPL	/	/	/	/	/	/	0.708[d]

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Well-child Visits, 15 months

Dependent variable: *likelihood of each child 15 months of age to have had at least 5 well-child visits.*

Illinois (N=83,289)

All new enrollees– 6 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.513	0.516	0.510	0.563	0.619	0.624	0.630
Intercept (log odds)	0.5917[d]	0.6002[d]	0.6218[d]	0.8629[d]	0.5787[d]	0.8335[d]	0.7977[d]
Centered Frequency at 6 months	1.012[d]	1.012[d]	1.012[d]	1.014[d]	1.013[d]	1.011[d]	1.012[d]
Age							
< 1 Year old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1-5 years old	/	0.179[d]	0.179[d]	0.173[d]	0.177[d]	0.172[d]	0.171[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.958[b]	0.959[b]	1.027	1.027	1.027
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.589[d]	0.576[d]	0.672[d]	0.760[d]
Hispanic	/	/	/	0.792[d]	0.804[d]	0.939[b]	0.993
Other	/	/	/	0.775[d]	0.806[d]	0.925[b]	0.946
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	2.264[d]	2.259[d]	2.264[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	<0.001	<0.001
Urban Cluster	/	/	/	/	/	1.031	1.003
Urbanized Area	/	/	/	/	/	0.657[d]	0.700[d]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.919[b]
25-50% income level	/	/	/	/	/	/	1.066
< 25% income level	/	/	/	/	/	/	1.041
Missing income level	/	/	/	/	/	/	1.138[b]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.065[a]
25-50% with HS Degree	/	/	/	/	/	/	0.937[a]
< 25% with HS Degree	/	/	/	/	/	/	0.957
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.098[a]
50-75% below FPL	/	/	/	/	/	/	0.942
≥ 75% below FPL	/	/	/	/	/	/	0.733[d]

[a] p<0.05, [b] p<0.01, [c] p<0.001, [d] p<0.0001

Well-child Visits, 15 months

Dependent variable: *likelihood of each child 15 months of age to have had at least 5 well-child visits.*

Louisiana (N= 37,587)

All new enrollees– 6 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.516	0.520	0.516	0.525	0.575	0.590	0.600
Intercept (log odds)	0.6026[d]	0.6108[d]	0.6073[d]	0.6539[d]	0.4317[d]	0.167	0.0140
Centered Frequency at 6 months	0.958[d]	0.959[d]	0.959[d]	0.961[d]	0.963[d]	0.952[d]	0.962[d]
Age							
< 1 Year old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1-5 years old	/	0.169[d]	0.169[d]	0.172[d]	0.178[d]	0.179[d]	0.179[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.007	1.007	1.046[a]	1.044[a]	1.044[a]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.942[a]	0.941[b]	0.898[d]	0.909[c]
Hispanic	/	/	/	0.795[d]	0.830[c]	0.798[d]	0.811[d]
Other	/	/	/	1.009	0.935	0.896[a]	0.897[a]
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.683[d]	1.681[d]	1.674[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.511[d]	0.514[d]
Urban Cluster	/	/	/	/	/	1.264[d]	1.264[d]
Urbanized Area	/	/	/	/	/	1.480[d]	1.513[d]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.933
25-50% income level	/	/	/	/	/	/	1.171[a]
< 25% income level	/	/	/	/	/	/	0.851[b]
Missing income level	/	/	/	/	/	/	0.672[d]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.038
25-50% with HS Degree	/	/	/	/	/	/	1.092
< 25% with HS Degree	/	/	/	/	/	/	1.110[a]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.337[d]
50-75% below FPL	/	/	/	/	/	/	1.417[d]
≥ 75% below FPL	/	/	/	/	/	/	1.351[d]

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Well-child Visits, 15 months

Dependent variable: *likelihood of each child 15 months of age to have had at least 5 well-child visits.*

Illinois (N= 83,289)

All new enrollees– 12 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.474	0.475	0.500	0.559	0.617	0.623	0.630
Intercept (log odds)	0.5932[d]	0.6017[d]	0.6234[d]	0.8697[d]	0.5846[d]	0.8540[d]	0.8186[d]
Centered Frequency at 12 months	1.007[d]	1.007[d]	1.007[d]	1.011[d]	1.010[d]	1.010[d]	1.011[d]
Age							
< 1 Year old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1-5 years old	/	0.179[d]	0.179[d]	0.174[d]	0.177[d]	0.172[d]	0.171[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.957[b]	0.959[b]	1.027	1.027	1.027
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.583[d]	0.570[d]	0.670[d]	0.758[d]
Hispanic	/	/	/	0.785[d]	0.798[d]	0.936[b]	0.991
Other	/	/	/	0.769[d]	0.799[d]	0.923[b]	0.944
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	2.266[d]	2.260[d]	2.265[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	<0.001	<0.001
Urban Cluster	/	/	/	/	/	1.032	1.005
Urbanized Area	/	/	/	/	/	0.642[d]	0.684[d]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.921[b]
25-50% income level	/	/	/	/	/	/	1.065
< 25% income level	/	/	/	/	/	/	1.050
Missing income level	/	/	/	/	/	/	1.145[b]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.060[a]
25-50% with HS Degree	/	/	/	/	/	/	0.930[b]
< 25% with HS Degree	/	/	/	/	/	/	0.950
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.100[c]
50-75% below FPL	/	/	/	/	/	/	0.940
≥ 75% below FPL	/	/	/	/	/	/	0.732[d]

[a] p<0.05, [b] p<0.01, [c] p<0.001, [d] p<0.0001

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Well-child Visits, 15 months

Dependent variable: *likelihood of each child 15 months of age to have had at least 5 well-child visits.*

Louisiana (N= 37,587)

All new enrollees– 12 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.515	0.518	0.518	0.522	0.574	0.593	0.602
Intercept (log odds)	0.6006[d]	0.6088[d]	0.6048[d]	0.6424[d]	0.4232[d]	0.1211[b]	-0.0385
Centered Frequency at 12 months	0.977[d]	0.978[d]	0.978[d]	0.981[d]	0.984[d]	0.969[d]	0.971[d]
Age							
< 1 Year old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1-5 years old	/	0.170[d]	0.170[d]	0.173[d]	0.179[d]	0.180[d]	0.181[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.008	1.008	1.047[a]	1.045[a]	1.045[a]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.957	0.953[a]	0.917[c]	0.920[b]
Hispanic	/	/	/	0.811[d]	0.843[c]	0.819[d]	0.831[c]
Other	/	/	/	0.928	0.945	0.911	0.909
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.680[d]	1.677[d]	1.670[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.525[d]	0.528[d]
Urban Cluster	/	/	/	/	/	1.269[d]	1.264[d]
Urbanized Area	/	/	/	/	/	1.547[d]	1.589[d]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.921
25-50% income level	/	/	/	/	/	/	1.183[a]
< 25% income level	/	/	/	/	/	/	0.844[b]
Missing income level	/	/	/	/	/	/	0.661[d]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.028
25-50% with HS Degree	/	/	/	/	/	/	1.095
< 25% with HS Degree	/	/	/	/	/	/	1.122[a]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.353[d]
50-75% below FPL	/	/	/	/	/	/	1.445[d]
≥ 75% below FPL	/	/	/	/	/	/	1.398[d]

[a] p<0.05, [b] p<0.01, [c] p<0.001, [d] p<0.0001

Well-child Visits, 15 months

Dependent variable: *likelihood of each child 15 months of age to have had at least 5 well-child visits.*

Illinois (N= 83,289)

All new enrollees– 18 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.462	0.494	0.498	0.556	0.616	0.623	0.630
Intercept (log odds)	0.5955[d]	0.6040[d]	0.6257[d]	0.8711[d]	0.5858[d]	0.8701[d]	0.8345[d]
Centered Frequency at 18 months	1.002	1.002	1.002	1.008[d]	1.007[d]	1.009[d]	1.011[d]
Age							
< 1 Year old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1-5 years old	/	0.179[d]	0.179[d]	0.174[d]	0.178[d]	0.172[d]	0.171[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.957[b]	0.959[b]	1.027	1.027	1.027
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.583[d]	0.569[d]	0.668[d]	0.756[d]
Hispanic	/	/	/	0.785[d]	0.797[d]	0.934[b]	0.988
Other	/	/	/	0.767[d]	0.798[d]	0.920[b]	0.941[a]
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	2.268[d]	2.262[d]	2.266[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	<0.001	<0.001
Urban Cluster	/	/	/	/	/	1.033	1.004
Urbanized Area	/	/	/	/	/	0.631[d]	0.672[d]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.924[b]
25-50% income level	/	/	/	/	/	/	1.065
< 25% income level	/	/	/	/	/	/	1.059
Missing income level	/	/	/	/	/	/	1.156[c]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.058[a]
25-50% with HS Degree	/	/	/	/	/	/	0.927[b]
< 25% with HS Degree	/	/	/	/	/	/	0.945
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.101[c]
50-75% below FPL	/	/	/	/	/	/	0.940
≥ 75% below FPL	/	/	/	/	/	/	0.728[d]

[a] p<0.05, [b] p<0.01, [c] p<0.001, [d] p<0.0001

Well-child Visits, 15 months

Dependent variable: *likelihood of each child 15 months of age to have had at least 5 well-child visits.*

Louisiana (N= 37,587)

All new enrollees– 18 months

Predictors	**Model 1**	**Model 2**	**Model 3**	**Model 4**	**Model 5**	**Model 6**	**Model 7**
C-statistic	0.528	0.532	0.533	0.534	0.580	0.598	0.605
Intercept (log odds)	0.5946[d]	0.6028[d]	0.5987[d]	0.6162[d]	0.3985[d]	0.0820[a]	-0.0667
Centered Frequency at 18 months	0.969[d]	0.969[d]	0.969[d]	0.970[d]	0.972[d]	0.964[d]	0.965[d]
Age							
< 1 Year old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
1-5 years old	/	0.172[d]	0.172[d]	0.174[d]	0.181[d]	0.182[d]	0.182[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.008	1.008	1.047[a]	1.045[a]	1.045[a]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.991	0.986	0.947[a]	0.936[b]
Hispanic	/	/	/	0.839[c]	0.872[b]	0.840[c]	0.848[b]
Other	/	/	/	0.946	0.964	0.923	0.916
Chronic							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	1.674[d]	1.674[d]	1.668[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.538[d]	0.534[d]
Urban Cluster	/	/	/	/	/	1.286[d]	1.273[d]
Urbanized Area	/	/	/	/	/	1.579[d]	1.623[d]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.904[a]
25-50% income level	/	/	/	/	/	/	1.193[a]
< 25% income level	/	/	/	/	/	/	0.832[b]
Missing income level	/	/	/	/	/	/	0.664[d]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	0.998
25-50% with HS Degree	/	/	/	/	/	/	1.042
< 25% with HS Degree	/	/	/	/	/	/	1.067
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.389[d]
50-75% below FPL	/	/	/	/	/	/	1.523[d]
≥ 75% below FPL	/	/	/	/	/	/	1.492[d]

[a] p<0.05, [b] p<0.01, [c] p<0.001, [d] p<0.0001

APPENDIX Vb: ACSC Outcome Table

Illinois
All new enrollees - 6 months (N= 268,905)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.526	0.727	0.732	0.739	0.823	0.824	0.826
Intercept	-3.8414[d]	-4.6766[d]	-4.5702[d]	-4.5809[d]	-5.2665[d]	-5.3368[d]	-5.5208[d]
Centered Frequency 6 months	1.021[d]	1.014[d]	1.014[d]	1.014[d]	1.010[d]	1.010[c]	1.009[c]
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.433[d]	0.431[d]	0.435[d]	0.412[d]	0.412[d]	0.414[d]
1-5 years old	/	0.853[a]	0.850[a]	0.856[a]	0.733[d]	0.733[d]	0.735[d]
0-1 years old	/	4.700[d]	4.666[d]	4.670[d]	3.195[d]	3.195[d]	3.175[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.811[d]	0.811[d]	0.956	0.956	0.955
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.228[d]	1.216[d]	1.240[d]	1.164[c]
Hispanic	/	/	/	0.927[a]	0.985	1.005	0.958
Other	/	/	/	0.691[d]	0.781[d]	0.795[c]	0.795[c]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	6.271[d]	6.265[d]	6.227[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	<0.001[d]	<0.001[d]
Urban Cluster	/	/	/	/	/	1.170[a]	1.099
Urbanized Area	/	/	/	/	/	1.050	1.104
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.002
Missing	/	/	/	/	/	/	1.216[a]
25-50% income level	/	/	/	/	/	/	1.146[a]
< 25% income level	/	/	/	/	/	/	1.222[a]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.030
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.074
< 25% with HS Degree	/	/	/	/	/	/	1.070
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.047
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	1.168[a]
≥ 75% below FPL	/	/	/	/	/	/	0.989

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] p<0.05, [b] p<0.01, [c] p<0.001, [d] p<0.0001

Illinois

All new enrollees - 12 Months (N= 268,905)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.534	0.728	0.733	0.739	0.823	0.824	0.826
Intercept	-3.8428[d]	-4.6760[d]	-4.5695[d]	-4.5688[d]	-5.2571[d]	-5.3143[d]	-5.5019[d]
Centered Frequency 6 months	1.024[d]	1.015[d]	1.015[d]	1.015[d]	1.011[d]	1.011[d]	1.011[d]
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.433[d]	0.431[d]	0.434[d]	0.412[d]	0.412[d]	0.414[d]
1-5 years old	/	0.853[a]	0.850[a]	0.856[a]	0.734[d]	0.734[d]	0.735[d]
0-1 years old	/	4.692[d]	4.658[d]	4.669[d]	3.194[d]	3.195[d]	3.174[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.811[d]	0.810[d]	0.956	0.956	0.955
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.206[d]	1.197	1.230[d]	1.157[c]
Hispanic	/	/	/	0.909[b]	0.968	0.996	0.953
Other	/	/	/	0.679[d]	0.770	0.789[c]	0.791[d]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	6.274	6.264[d]	6.226[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	<0.001[d]	<0.001[d]
Urban Cluster	/	/	/	/	/	1.168[a]	1.096
Urbanized Area	/	/	/	/	/	1.027	1.086
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.112
Missing	/	/	/	/	/	/	1.212[a]
25-50% income level	/	/	/	/	/	/	1.154[a]
< 25% income level	/	/	/	/	/	/	1.238[b]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.025
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.065
< 25% with HS Degree	/	/	/	/	/	/	1.055
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.049
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	1.167[a]
≥ 75% below FPL	/	/	/	/	/	/	0.986

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Illinois

All new enrollees- 18 months (N=268,905)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.526	0.727	0.733	0.739	0.823	0.824	0.826
Intercept	-3.8421[d]	-4.6749[d]	-4.5683[d]	-4.5603[d]	-5.2491[d]	-5.2920[d]	-5.4839[d]
Centered Frequency 6 months	1.023[d]	1.013[d]	1.013[d]	1.013[d]	1.011[d]	1.012[d]	1.012[d]
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.433[d]	0.431[d]	0.435[d]	0.412[d]	0.413[d]	0.414[d]
1-5 years old	/	0.853[a]	0.850[a]	0.856[a]	0.734[d]	0.734[d]	0.736[d]
0-1 years old	/	4.692[d]	4.657[d]	4.671[d]	3.194[d]	3.195[d]	3.174[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.811[d]	0.810[d]	0.956	0.956	0.955
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.191[d]	1.182[d]	1.223[d]	1.150[c]
Hispanic	/	/	/	0.897[b]	0.955	0.988	0.947
Other	/	/	/	0.672[d]	0.761[d]	0.784[d]	0.786[d]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	6.280[d]	6.268[d]	6.229[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	<0.001[d]	<0.001[d]
Urban Cluster	/	/	/	/	/	1.167[a]	1.093
Urbanized Area	/	/	/	/	/	1.005	1.066
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.006
Missing	/	/	/	/	/	/	1.212[a]
25-50% income level	/	/	/	/	/	/	1.165[a]
< 25% income level	/	/	/	/	/	/	1.255[b]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.022
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.060
< 25% with HS Degree	/	/	/	/	/	/	1.043
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.051
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	1.167[a]
≥ 75% below FPL	/	/	/	/	/	/	0.980

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Louisiana

All new enrollees - 6 months (N= 110,412)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.513	0.704	0.710	0.716	0.792	0.800	0.801
Intercept	-3.1506[d]	-4.2727[d]	-4.2151[d]	-4.1828[d]	-4.7841[d]	-4.5276[d]	-4.7300[d]
Centered Frequency 6 months	0.965[b]	1.014	1.014	1.017	1.023	1.040[b]	1.034[a]
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.586[d]	0.585[d]	0.586[d]	0.551[d]	0.555[d]	0.558[d]
1-5 years old	/	1.321[b]	1.317[b]	1.347[b]	1.137	1.154	1.156
0-1 years old	/	5.754[d]	5.743[d]	5.781[d]	4.190[d]	4.127[d]	4.142[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.891[c]	0.891[c]	0.989	0.988	0.988
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.005	1.008	1.073[a]	1.030
Hispanic	/	/	/	0.625[d]	0.687[d]	0.774[b]	0.788[b]
Other	/	/	/	0.649[d]	0.679[d]	0.738[c]	0.735[c]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	4.797[d]	4.720[d]	4.718[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.388[d]	0.368[d]
Urban Cluster	/	/	/	/	/	1.009	1.014
Urbanized Area	/	/	/	/	/	0.654[d]	0.697[d]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.107
Missing	/	/	/	/	/	/	1.309[b]
25-50% income level	/	/	/	/	/	/	1.164
< 25% income level	/	/	/	/	/	/	1.323[b]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.103
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	0.918
< 25% with HS Degree	/	/	/	/	/	/	0.974
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.048
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	1.086
≥ 75% below FPL	/	/	/	/	/	/	1.011

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Louisiana
All new enrollees - 12 Months (N= 110,412)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.537	0.708	0.712	0.717	0.791	0.800	0.801
Intercept	-3.1581[d]	-4.2695[d]	-4.2122[d]	-4.1968[d]	-4.7907[d]	-4.5290[d]	-4.7311[d]
Centered Frequency 6 months	0.955[d]	0.975[d]	0.975[d]	0.977[d]	0.982[c]	1.004	1.000
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.587[d]	0.585[d]	0.588[d]	0.551[d]	0.556[d]	0.558[d]
1-5 years old	/	1.325[b]	1.321[b]	1.352[b]	1.140	1.155	1.157
0-1 years old	/	5.676[d]	5.665[d]	5.701[d]	4.125[d]	4.106[d]	4.119[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.891[c]	0.892[c]	0.989	0.988	0.988
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.034	1.032	1.071[a]	1.027
Hispanic	/	/	/	0.648[d]	0.708[d]	0.773[b]	0.789[b]
Other	/	/	/	0.667[d]	0.693[d]	0.738[c]	0.735[c]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	4.787[d]	4.720[d]	4.718[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.389[d]	0.369[d]
Urban Cluster	/	/	/	/	/	1.012	1.016
Urbanized Area	/	/	/	/	/	0.658[d]	0.704[d]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.098
Missing	/	/	/	/	/	/	1.306[b]
25-50% income level	/	/	/	/	/	/	1.168
< 25% income level	/	/	/	/	/	/	1.336[b]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.104
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	0.901
< 25% with HS Degree	/	/	/	/	/	/	0.952
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.055
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	1.094
≥ 75% below FPL	/	/	/	/	/	/	1.024

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Louisiana
All new enrollees- 18 months (N=110,412)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.527	0.708	0.711	0.717	0.791	0.800	0.801
Intercept	-3.1569[d]	-4.2687[d]	-4.2113[d]	-4.1957[d]	-4.7897[d]	-4.5312[d]	-4.7340[d]
Centered Frequency 6 months	0.971[d]	0.986[c]	0.986 [c]	0.987[c]	0.990[a]	1.002	0.999
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.586[d]	0.585[d]	0.587[d]	0.551[d]	0.556[d]	0.558[d]
1-5 years old	/	1.323[b]	1.320[b]	1.351[b]	1.139	1.155	1.157
0-1 years old	/	5.683[d]	5.672[d]	5.706[d]	4.132[d]	4.105[d]	4.115[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.891[c]	0.892[c]	0.989	0.988	0.988
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.034	1.031	1.071[a]	1.028
Hispanic	/	/	/	0.644[d]	0.703[d]	0.773[b]	0.790[b]
Other	/	/	/	0.663[d]	0.689[d]	0.738[c]	0.736[c]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	4.789[d]	4.720[d]	4.718[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.389[d]	0.370[d]
Urban Cluster	/	/	/	/	/	1.011	1.016
Urbanized Area	/	/	/	/	/	0.661[d]	0.707[d]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.096
Missing	/	/	/	/	/	/	1.308[b]
25-50% income level	/	/	/	/	/	/	1.167
< 25% income level	/	/	/	/	/	/	1.336[b]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.103
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	0.899
< 25% with HS Degree	/	/	/	/	/	/	0.951
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.057
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	1.097
≥ 75% below FPL	/	/	/	/	/	/	1.028

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Montana

All new enrollees - 6 months (N= 252,234)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.499	0.771	0.774	0.790	0.852	0.856	0.860
Intercept	-4.0091[d]	-4.5532[d]	-4.4678[d]	-4.7106[d]	-5.3067[d]	-5.3979[d]	-5.5641[d]
Centered Frequency 6 months	0.992	0.995	0.994	1.004	1.004	1.007	1.009
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.324[d]	0.322[d]	0.325[d]	0.310[d]	0.310[d]	0.309[d]
1-5 years old	/	0.729	0.727	0.735	0.570[b]	0.570[b]	0.563[b]
0-1 years old	/	5.179[d]	5.169[d]	5.158[d]	3.829[d]	3.831[d]	3.810[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.838	0.838	0.985	0.993	0.993
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.669	0.628	0.653	0.620
Hispanic	/	/	/	1.241	1.290	1.323	1.260
Other	/	/	/	2.058[d]	2.048[d]	2.078[d]	1.702[d]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	6.067[d]	6.028[d]	5.969[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.855	1.714
Urban Cluster	/	/	/	/	/	1.227	1.474
Urbanized Area	/	/	/	/	/	0.989	1.210
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.295
Missing	/	/	/	/	/	/	0.628
25-50% income level	/	/	/	/	/	/	1.774[a]
< 25% income level	/	/	/	/	/	/	2.649[d]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	0.801
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	0.786
< 25% with HS Degree	/	/	/	/	/	/	1.140
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.005
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	0.528[b]
≥ 75% below FPL	/	/	/	/	/	/	0.571[a]

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Montana
All new enrollees - 12 Months (N= 25,234)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.523	0.772	0.774	0.792	0.854	0.856	0.860
Intercept	-4.0104[d]	-4.5571[d]	-4.4715[d]	-4.7115[d]	-5.3079[d]	-5.3912[d]	-5.5592[d]
Centered Frequency 6 months	0.986	0.985	0.985	0.988	0.989	0.992	0.993
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.325[d]	0.323[d]	0.325[d]	0.311[d]	0.311[d]	0.310[d]
1-5 years old	/	0.731	0.729	0.737	0.572[b]	0.572[b]	0.566[b]
0-1 years old	/	5.194[d]	5.185[d]	5.172[d]	3.837[d]	3.838[d]	3.816[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.838	0.838	0.984	0.991	5.979
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.669	0.627	0.650	1.678
Hispanic	/	/	/	1.231	1.280	1.308	1.449
Other	/	/	/	2.043[d]	2.038[d]	2.060[d]	1.210[d]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	6.066[d]	6.032[d]	5.979[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.845	1.678
Urban Cluster	/	/	/	/	/	1.208	1.449[b]
Urbanized Area	/	/	/	/	/	0.990	1.210
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.288
Missing	/	/	/	/	/	/	0.635
25-50% income level	/	/	/	/	/	/	1.808[b]
< 25% income level	/	/	/	/	/	/	2.693[d]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	0.802
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	0.759
< 25% with HS Degree	/	/	/	/	/	/	1.106
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.015
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	0.539[b]
≥ 75% below FPL	/	/	/	/	/	/	0.576[a]

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Montana
All new enrollees- 18 months (N=25,234)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.512	0.770	0.771	0.791	0.852	0.856	0.860
Intercept	-4.0092[d]	-4.5546[d]	-4.4693[d]	-4.7097[d]	-5.3066[d]	-5.3952[d]	-5.5731[d]
Centered Frequency 6 months	1.007	1.011	1.011	1.003	0.999	0.999	0.992
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.324[d]	0.322[d]	0.325[d]	0.310[d]	0.311[d]	0.310[d]
1-5 years old	/	0.729	0.727	0.735	0.571[b]	0.571[b]	0.565[b]
0-1 years old	/	5.188[d]	5.178[d]	5.162[d]	3.830[d]	3.833[d]	3.813[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.839	0.838	0.985	0.992	0.991
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.669	0.628	0.652	0.621
Hispanic	/	/	/	1.239	1.286	1.314	1.246
Other	/	/	/	2.047[d]	2.046[d]	2.069[d]	1.696[d]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	6.069[d]	6.031[d]	5.983[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.851	1.703
Urban Cluster	/	/	/	/	/	1.221	1.470[b]
Urbanized Area	/	/	/	/	/	0.989	1.215
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.294
Missing	/	/	/	/	/	/	0.634
25-50% income level	/	/	/	/	/	/	1.823[b]
< 25% income level	/	/	/	/	/	/	2.721[d]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	0.805
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	0.764
< 25% with HS Degree	/	/	/	/	/	/	1.121
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.009
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	0.531[b]
≥ 75% below FPL	/	/	/	/	/	/	0.575[a]

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

North Carolina
All new enrollees - 6 months (N= 263,356)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	**	0.721	0.719	0.724	0.809	0.811	0.814
Intercept	-4.0434[d]	-4.5850[d]	-4.5593[d]	-4.5376[d]	-5.1483[d]	-5.0132[d]	-5.2463[d]
Centered Frequency 6 months	1.008	0.999	0.999	1.001	1.005	1.012	1.012
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.411[d]	0.411[d]	0.413[d]	0.357[d]	0.359[d]	0.359[d]
1-5 years old	/	0.893	0.892	0.904	0.617[d]	0.620[d]	0.621[d]
0-1 years old	/	3.989[d]	3.984[d]	4.050[d]	2.623[d]	2.621[d]	2.618[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.951	0.951	1.093[b]	1.093[b]	1.092[b]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.970	0.920[a]	0.942	0.934
Hispanic	/	/	/	0.851[c]	0.898[a]	0.923	0.932
Other	/	/	/	1.036	1.030	1.050	1.058
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	5.799[d]	5.767[d]	5.759[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.807	1.001
Urban Cluster	/	/	/	/	/	0.926	0.939
Urbanized Area	/	/	/	/	/	0.811[d]	0.900[a]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.876[a]
Missing	/	/	/	/	/	/	0.999
25-50% income level	/	/	/	/	/	/	0.882
< 25% income level	/	/	/	/	/	/	1.045
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.297[d]
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.413[d]
< 25% with HS Degree	/	/	/	/	/	/	1.382[d]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.030
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	0.962
≥ 75% below FPL	/	/	/	/	/	/	0.947

**Note: Measures of association between the observed and predicted values were not calculated because the predicted probabilities are indistinguishable when they are classified into intervals of length 0.002.

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

North Carolina
All new enrollees - 12 Months (N= 263,356)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	**	0.721	0.723	0.727	0.809	0.812	0.815
Intercept	-4.0434[d]	-4.5865[d]	-4.5607[d]	-4.5373[d]	-5.1485[d]	-5.0145[d]	-5.2512[d]
Centered Frequency 6 months	0.999	0.988[a]	0.988[a]	0.988[a]	0.988[a]	0.983[b]	0.981[c]
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.411[d]	0.411[d]	0.413[d]	0.357[d]	0.359[d]	0.359[d]
1-5 years old	/	0.893	0.892	0.903	0.617[d]	0.620[d]	0.621[d]
0-1 years old	/	3.999[d]	3.995[d]	4.057[d]	2.628[d]	2.628[d]	2.626[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.951	0.951	1.093[b]	1.093[b]	1.092[b]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.965	0.915[a]	0.937	0.931
Hispanic	/	/	/	0.852[c]	0.901[a]	0.930	0.939
Other	/	/	/	1.039	1.033	1.055	1.065
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	5.799[d]	5.763[d]	5.756[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.799	0.984
Urban Cluster	/	/	/	/	/	0.941	0.959
Urbanized Area	/	/	/	/	/	0.807[d]	0.896[a]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.880[a]
Missing	/	/	/	/	/	/	1.008
25-50% income level	/	/	/	/	/	/	0.888
< 25% income level	/	/	/	/	/	/	1.042
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.316[d]
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.423[d]
< 25% with HS Degree	/	/	/	/	/	/	1.416[d]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.013
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	0.946
≥ 75% below FPL	/	/	/	/	/	/	0.928

**Note: Measures of association between the observed and predicted values were not calculated because the predicted probabilities are indistinguishable when they are classified into intervals of length 0.002.

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

North Carolina
All new enrollees- 18 months (N=263,356)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.502	0.722	0.720	0.724	0.809	0.811	0.815
Intercept	-4.0434[d]	-4.5852[d]	-4.5594[d]	-4.5359[d]	-5.1464[d]	-5.0019[d]	-5.2440[d]
Centered Frequency 6 months	1.005	0.996	0.996	0.996	0.994	0.987[b]	0.981[d]
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.411[d]	0.411[d]	0.413[d]	0.357[d]	0.359[d]	0.359[d]
1-5 years old	/	0.893	0.892	0.903	0.617[d]	0.619[d]	0.620[d]
0-1 years old	/	3.991[d]	3.987[d]	4.052[d]	2.626[d]	2.626[d]	2.626[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.951	0.951	1.093[b]	1.093[b]	1.092[b]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.966	0.915[a]	0.933	0.927
Hispanic	/	/	/	0.850[c]	0.897[a]	0.925	0.936
Other	/	/	/	1.035	1.029	1.050	1.061
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	5.799[d]	5.763[d]	5.755[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.792	0.972
Urban Cluster	/	/	/	/	/	0.937	0.957
Urbanized Area	/	/	/	/	/	0.797[d]	0.882[b]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.878[a]
Missing	/	/	/	/	/	/	1.014
25-50% income level	/	/	/	/	/	/	0.892
< 25% income level	/	/	/	/	/	/	1.045
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.324[d]
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.450[d]
< 25% with HS Degree	/	/	/	/	/	/	1.448[d]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.010
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	0.935
≥ 75% below FPL	/	/	/	/	/	/	0.916

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

New Hampshire
All new enrollees - 6 months (N= 24,257)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.491	0.728	0.729	0.727	0.812	0.814	0.823
Intercept	-4.4826[d]	5.3003[d]	-5.3048[d]	-5.3287[d]	-6.0088[d]	-5.9769[d]	-5.8960[d]
Centered Frequency 6 months	0.958	0.960	0.960	0.965	0.966	0.983	0.988
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.779	0.779	0.773	0.738	0.738	0.729
1-5 years old	/	1.363	1.363	1.352	1.034	1.037	1.015
0-1 years old	/	6.097[d]	6.098[d]	6.055[d]	4.134[d]	4.146[d]	4.053[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.009	1.014	1.181	1.179	1.177
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.915[a]	1.923[a]	1.899[a]	1.728
Hispanic	/	/	/	1.284	1.229	1.191	1.040
Other	/	/	/	0.410	0.452	0.447	0.435
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	6.197[d]	6.197[d]	6.139[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	1.487	2.231
Urban Cluster	/	/	/	/	/	0.801	0.787
Urbanized Area	/	/	/	/	/	1.021	0.888
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.686
Missing	/	/	/	/	/	/	0.639
25-50% income level	/	/	/	/	/	/	0.652
< 25% income level	/	/	/	/	/	/	0.696
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.226
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.205
< 25% with HS Degree	/	/	/	/	/	/	1.518
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.041
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	1.014
≥ 75% below FPL	/	/	/	/	/	/	1.431

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

New Hampshire
All new enrollees - 12 Months (N= 24,257)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	
C-statistic	0.548	0.727	0.727	0.731	0.813	0.815	0.822
Intercept	-4.4858[d]	-5.3003[d]	-5.3040[d]	-5.3253[d]	-6.0040[d]	-5.9392[d]	-5.8604[d]
Centered Frequency 6 months	0.958	0.959	0.959	0.963	0.964	0.970	0.971
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.776	0.776	0.771	0.736	0.736	0.728
1-5 years old	/	1.357	1.357	1.348	1.030	1.034	1.013
0-1 years old	/	6.080[d]	6.080[d]	6.042[d]	4.121[d]	4.138[d]	4.049[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.007	1.013	1.178	1.178	1.176
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.872[a]	1.879[a]	1.883[a]	1.714
Hispanic	/	/	/	1.247	1.192	1.181	1.031
Other	/	/	/	0.403	0.445	0.445	0.433
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	6.197[d]	6.204[d]	6.149[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	1.424	2.139
Urban Cluster	/	/	/	/	/	0.801	0.785
Urbanized Area	/	/	/	/	/	0.955	0.832
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.702
Missing	/	/	/	/	/	/	0.638
25-50% income level	/	/	/	/	/	/	0.676
< 25% income level	/	/	/	/	/	/	0.724
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.226
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.195
< 25% with HS Degree	/	/	/	/	/	/	1.462
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.031
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	0.978
≥ 75% below FPL	/	/	/	/	/	/	1.425

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

New Hampshire
All new enrollees- 18 months (N=24,257)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.500	0.729	0.728	0.724	0.812	0.813	0.823
Intercept	-4.4803[d]	-5.2991[d]	-5.3031[d]	-5.3283[d]	-6.0089[d]	-6.0002[d]	-5.9027[d]
Centered Frequency 6 months	0.982	0.981	0.981	0.985	0.985	1.005	0.995
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.778	0.778	0.773	0.738	0.737	0.729
1-5 years old	/	1.365	1.365	1.354	1.036	1.038	1.015
0-1 years old	/	6.106[d]	6.106[d]	6.062[d]	4.138[d]	4.147[d]	4.052[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.008	1.014	1.181	1.178	1.176
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.934[a]	1.942	1.906[a]	1.726
Hispanic	/	/	/	1.298	1.241	1.191	1.039
Other	/	/	/	0.413	0.453	0.447	0.435
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	6.198[d]	6.193[d]	6.137[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	1.534	2.238
Urban Cluster	/	/	/	/	/	0.798	0.787
Urbanized Area	/	/	/	/	/	1.068	0.893
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.682
Missing	/	/	/	/	/	/	0.643
25-50% income level	/	/	/	/	/	/	0.645
< 25% income level	/	/	/	/	/	/	0.689
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.229
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.213
< 25% with HS Degree	/	/	/	/	/	/	1.541
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.045
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	1.027
≥ 75% below FPL	/	/	/	/	/	/	1.437

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

New York

All new enrollees - 6 months (N= 403,229)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.529	0.680	0.687	0.702	0.799	0.799	0.800
Intercept	-3.6185[d]	-4.3455[d]	-4.2434[d]	-4.5744[d]	-5.2050[d]	-5.1368[d]	-5.1600[d]
Centered Frequency 6 months	1.117[d]	1.109[d]	1.108[d]	1.070[d]	1.058[d]	1.070[d]	1.047[d]
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.668[d]	0.665[d]	0.657[d]	0.581[d]	0.581[d]	0.581[d]
1-5 years old	/	1.407[d]	1.399[d]	1.383[d]	0.950	0.951	0.954
0-1 years old	/	3.793[d]	3.774[d]	3.961[d]	2.522[d]	2.526[d]	2.542[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.811[d]	0.808[d]	0.927[c]	0.926[c]	0.926[c]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.596[d]	1.591[d]	1.620[d]	1.519[d]
Hispanic	/	/	/	1.771[d]	1.664[d]	1.693[d]	1.585[d]
Other	/	/	/	1.016	1.136[c]	1.153[d]	1.115[b]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	6.011[d]	6.004[d]	6.001[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.643[b]	0.735
Urban Cluster	/	/	/	/	/	1.003	1.020
Urbanized Area	/	/	/	/	/	0.913	0.892[a]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.922[a]
Missing	/	/	/	/	/	/	0.924
25-50% income level	/	/	/	/	/	/	0.953
< 25% income level	/	/	/	/	/	/	1.117
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.121[b]
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.270[d]
< 25% with HS Degree	/	/	/	/	/	/	1.242[d]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.984
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	0.851[b]
≥ 75% below FPL	/	/	/	/	/	/	0.929

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

New York
All new enrollees - 12 Months (N= 403,229)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.532	0.682	0.688	0.702	0.799	0.799	0.800
Intercept	-3.6620[d]	-4.3481[d]	-4.2462[d]	-4.5522[d]	-5.1846[d]	-5.0742[d]	-5.0945[d]
Centered Frequency 6 months	1.032[d]	1.030[d]	1.030[d]	1.021[d]	1.018[d]	1.023[d]	1.019[d]
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.668[d]	0.665[d]	0.657[d]	0.580[d]	0.581[d]	0.581[d]
1-5 years old	/	1.409[d]	1.401[d]	1.384[d]	0.951	0.952	0.955
0-1 years old	/	3.787[d]	3.769[d]	3.961[d]	2.521[d]	2.528[d]	2.542[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.812[d]	0.808[d]	0.926[c]	0.926[c]	0.926[c]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.547[d]	1.549[d]	1.588[d]	1.501[d]
Hispanic	/	/	/	1.718[d]	1.619[d]	1.659[d]	1.568[d]
Other	/	/	/	0.976	1.096[b]	1.117[b]	1.090[a]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	6.006[d]	5.998[d]	5.997[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.621[b]	0.697
Urban Cluster	/	/	/	/	/	1.014	1.027
Urbanized Area	/	/	/	/	/	0.864[b]	0.848[b]
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.932
Missing	/	/	/	/	/	/	0.935
25-50% income level	/	/	/	/	/	/	0.969
< 25% income level	/	/	/	/	/	/	1.159[a]
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.121[b]
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.252[d]
< 25% with HS Degree	/	/	/	/	/	/	1.206[c]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.972
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	0.834[c]
≥ 75% below FPL	/	/	/	/	/	/	0.894

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

New York
All new enrollees- 18 months (N=403,229)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.521	0.678	0.685	0.702	0.798	0.799	0.800
Intercept	-3.6143[d]	-4.3412[d]	-4.2386[d]	-4.5979[d]	-5.2288[d]	-5.2331[d]	-5.2275[d]
Centered Frequency 6 months	1.034[d]	1.029[d]	1.029[d]	1.017[d]	1.011[c]	1.011[b]	1.006
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.668[d]	0.665[d]	0.657[d]	0.581[d]	0.581[d]	0.581[d]
1-5 years old	/	1.408[d]	1.400[d]	1.383[d]	0.951	0.952	0.954
0-1 years old	/	3.793[d]	3.774[d]	3.954[d]	2.520[d]	2.521[d]	2.537[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.811[d]	0.808[d]	0.927[c]	0.927[c]	0.926[c]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.639[d]	1.634[d]	1.635[d]	1.521[d]
Hispanic	/	/	/	1.840[d]	1.726[d]	1.727[d]	1.587[d]
Other	/	/	/	1.064	1.187[d]	1.187[d]	1.128[c]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	6.013[d]	6.004[d]	6.001[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.686[a]	0.776
Urban Cluster	/	/	/	/	/	1.019	1.034
Urbanized Area	/	/	/	/	/	1.007	0.845
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.910[b]
Missing	/	/	/	/	/	/	0.921
25-50% income level	/	/	/	/	/	/	0.925
< 25% income level	/	/	/	/	/	/	1.060
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.139[c]
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.309[d]
< 25% with HS Degree	/	/	/	/	/	/	1.304[d]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.995
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	0.865[b]
≥ 75% below FPL	/	/	/	/	/	/	0.961

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Oregon
All new enrollees - 6 months (N= 103,110)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.502	0.741	0.745	0.751	0.826	0.827	0.830
Intercept	-4.5590[d]	-4.9327[d]	-4.8696[d]	-4.9778[d]	-5.5896[d]	-5.4252[d]	-5.5249[d]
Centered Frequency 6 months	1.016	1.011	1.011	1.019	1.017	1.017	1.016
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.356[d]	0.355[d]	0.349[d]	0.336[d]	0.337[d]	0.337[d]
1-5 years old	/	0.730[a]	0.729[a]	0.711[b]	0.567[d]	0.568[d]	0.567[d]
0-1 years old	/	3.927[d]	3.919[d]	3.794[d]	2.873[d]	2.881[d]	2.884[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.879[a]	0.878[a]	1.015	1.015	1.014
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.922	0.842	0.847	0.833
Hispanic	/	/	/	1.460[d]	1.413[d]	1.423[d]	1.461[d]
Other	/	/	/	1.179[a]	1.249[b]	1.251[b]	1.265[b]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	6.334[d]	6.342[d]	6.338[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.792	1.421
Urban Cluster	/	/	/	/	/	0.810	0.763[a]
Urbanized Area	/	/	/	/	/	0.842	0.828
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.882
Missing	/	/	/	/	/	/	0.598
25-50% income level	/	/	/	/	/	/	0.820
< 25% income level	/	/	/	/	/	/	0.794
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.310[a]
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.150
< 25% with HS Degree	/	/	/	/	/	/	0.952
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.266[a]
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	1.187
≥ 75% below FPL	/	/	/	/	/	/	1.317

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Oregon
All new enrollees - 12 Months (N= 103,110)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.507	0.740	0.745	0.751	0.826	0.827	0.830
Intercept	-4.5597[d]	-4.9338[d]	-4.8705[d]	-4.9818[d]	-5.5912[d]	-5.4251[d]	-5.5173[d]
Centered Frequency 6 months	1.025	1.019	1.019	1.029	1.021	1.022	1.016
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.356[d]	0.356[d]	0.350[d]	0.336[d]	0.337[d]	0.337[d]
1-5 years old	/	0.731[a]	0.730[a]	0.711[b]	0.567[d]	0.568[d]	0.568[d]
0-1 years old	/	3.928[d]	3.921[d]	3.793[d]	2.872[d]	2.880[d]	2.883[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.878[a]	0.877[a]	1.014	1.015	1.014
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.924	0.843	0.847	0.831
Hispanic	/	/	/	1.473	1.421[d]	1.431[d]	1.463[d]
Other	/	/	/	1.184	1.251[b]	1.253[b]	1.265[b]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	6.327[d]	6.334[d]	6.334[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.802	1.425
Urban Cluster	/	/	/	/	/	0.807	0.761[a]
Urbanized Area	/	/	/	/	/	0.841	0.826
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.873
Missing	/	/	/	/	/	/	0.599
25-50% income level	/	/	/	/	/	/	0.817
< 25% income level	/	/	/	/	/	/	0.788
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.308[a]
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.157
< 25% with HS Degree	/	/	/	/	/	/	0.957
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.264
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	1.185
≥ 75% below FPL	/	/	/	/	/	/	1.311

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Oregon
All new enrollees- 18 months (N=103,110)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.509	0.743	0.745	0.753	0.826	0.827	0.830
Intercept	-4.5607[d]	-4.9361[d]	-4.8725[d]	-4.9840[d]	-5.5931[d]	-5.4349[d]	-5.5152[d]
Centered Frequency 6 months	1.032[a]	1.029[a]	1.030[a]	1.037[a]	1.031[a]	1.031[a]	1.025
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.356[d]	0.356[d]	0.350[d]	0.337[d]	0.337[d]	0.337[d]
1-5 years old	/	0.732[a]	0.731[a]	0.712[b]	0.569[d]	0.569[d]	0.568[d]
0-1 years old	/	3.933[d]	3.925[d]	3.797[a]	2.875[d]	2.882[d]	2.884[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	0.878[a]	0.876[a]	1.014	1.014	1.013
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	0.908	0.831	0.833	0.823
Hispanic	/	/	/	1.476[d]	1.423[d]	1.432[d]	1.466[d]
Other	/	/	/	1.186[a]	1.253[b]	1.254[b]	1.267[b]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	6.321[d]	6.329[d]	6.329[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.793	1.407
Urban Cluster	/	/	/	/	/	0.812	0.765[a]
Urbanized Area	/	/	/	/	/	0.851	0.836
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	0.852
Missing	/	/	/	/	/	/	0.595
25-50% income level	/	/	/	/	/	/	0.807
< 25% income level	/	/	/	/	/	/	0.783
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.317[a]
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.161
< 25% with HS Degree	/	/	/	/	/	/	0.965
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.260
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	1.176
≥ 75% below FPL	/	/	/	/	/	/	1.290

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Utah

All new enrollees - 6 months (N= 72,752)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.504	0.751	0.751	0.760	0.835	0.834	0.842
Intercept	-4.1745 [d]	-5.0073[d]	-5.0138[d]	-5.1489[d]	-5.6945[d]	-5.5621[d]	-5.9481[d]
Centered Frequency 6 months	0.973[a]	0.962[b]	0.962[b]	0.961[b]	0.968[a]	0.966[a]	0.977
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.463[d]	0.463[d]	0.463[d]	0.487[c]	0.486[c]	0.495[c]
1-5 years old	/	1.008	1.008	1.008	0.873	0.875	0.890
0-1 years old	/	5.942[d]	5.943[d]	5.945[d]	4.477[d]	4.480[d]	4.574[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.013	1.011	1.150[a]	1.150[a]	1.151[a]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.670[b]	1.599[b]	1.599[b]	1.454[a]
Hispanic	/	/	/	1.361[d]	1.386[d]	1.380[d]	1.252[b]
Other	/	/	/	1.428[b]	1.494[b]	1.477[b]	1.399[b]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	5.920[d]	5.919[d]	5.930[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.742	0.951
Urban Cluster	/	/	/	/	/	0.810	0.960
Urbanized Area	/	/	/	/	/	0.887	1.031
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.024
Missing	/	/	/	/	/	/	1.158
25-50% income level	/	/	/	/	/	/	0.960
< 25% income level	/	/	/	/	/	/	1.350
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.115
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.115
< 25% with HS Degree	/	/	/	/	/	/	1.568[c]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.995
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	1.324
≥ 75% below FPL	/	/	/	/	/	/	0.762

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Utah

All new enrollees - 12 Months (N= 72,752)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.517	0.755	0.754	0.760	0.836	0.835	0.843
Intercept	-4.1757[d]	-5.0110[d]	-5.0177[d]	-5.1458[d]	-5.6922[d]	-5.5556[d]	-5.930[d]
Centered Frequency 6 months	0.971[b]	0.960[c]	0.960[c]	0.963[b]	0.967[b]	0.965[b]	0.978
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.464[d]	0.464[d]	0.464[d]	0.487[b]	0.487[c]	0.495[c]
1-5 years old	/	1.010	1.010	1.008	0.873	0.875	0.889
0-1 years old	/	5.959[d]	5.960[d]	5.952[d]	4.481[d]	4.485[d]	4.573[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.013	1.011	1.151[a]	1.150[a]	1.151[a]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.648[b]	1.581[b]	1.578[b]	1.447[a]
Hispanic	/	/	/	1.346[d]	1.374[d]	1.366[d]	1.247[b]
Other	/	/	/	1.398[b]	1.463[b]	1.442[b]	1.384[a]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	5.926[d]	5.927[d]	5.933[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.739	0.941
Urban Cluster	/	/	/	/	/	0.801	0.950
Urbanized Area	/	/	/	/	/	0.884	1.023
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.028
Missing	/	/	/	/	/	/	1.166
25-50% income level	/	/	/	/	/	/	0.965
< 25% income level	/	/	/	/	/	/	1.347
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.111
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.107
< 25% with HS Degree	/	/	/	/	/	/	1.536[c]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	1.007
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	1.336
≥ 75% below FPL	/	/	/	/	/	/	0.776

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$

Utah

All new enrollees- 18 months (N=72,752)

Predictors	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7
C-statistic	0.505	0.749	0.749	0.758	0.834	0.835	0.843
Intercept	-4.1749[d]	-5.0010[d]	-5.0079[d]	-5.1391[d]	-5.6868[d]	-5.5453[d]	-5.9373[d]
Centered Frequency 6 months	0.976[a]	0.974[a]	0.974[a]	0.978[a]	0.981	0.981	0.989
Age							
13+ years old	/	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
6-12 years old	/	0.462[d]	0.462[d]	0.462[d]	0.486[c]	0.486[c]	0.494[c]
1-5 years old	/	1.002	1.002	1.003	0.869	0.870	0.887
0-1 years old	/	5.897[d]	5.898[d]	5.904[d]	4.448[d]	4.450[d]	4.557[d]
Sex							
Male	/	/	Ref.	Ref.	Ref.	Ref.	Ref.
Female	/	/	1.014	1.012	1.152[a]	1.151[a]	1.152[a]
Race							
Non-Hispanic White	/	/	/	Ref.	Ref.	Ref.	Ref.
Non-Hispanic Black	/	/	/	1.654[b]	1.587[b]	1.589[b]	1.449[a]
Hispanic	/	/	/	1.340[d]	1.368[d]	1.364[d]	1.241[a]
Other	/	/	/	1.446[b]	1.509[c]	1.491[b]	1.411[b]
Chronic Condition							
No	/	/	/	/	Ref.	Ref.	Ref.
Yes	/	/	/	/	5.929[d]	5.925[d]	5.933[d]
Geography							
Rural	/	/	/	/	/	Ref.	Ref.
Missing	/	/	/	/	/	0.737	0.954
Urban Cluster	/	/	/	/	/	0.811	0.957
Urbanized Area	/	/	/	/	/	0.877	1.015
Income							
≥ 75% income level	/	/	/	/	/	/	Ref.
50-75% income level	/	/	/	/	/	/	1.032
Missing	/	/	/	/	/	/	1.148
25-50% income level	/	/	/	/	/	/	0.959
< 25% income level	/	/	/	/	/	/	1.322
Education							
≥ 75% with HS Degree	/	/	/	/	/	/	Ref.
50-75% with HS Degree	/	/	/	/	/	/	1.117
Missing	/	/	/	/	/	/	--
25-50% with HS Degree	/	/	/	/	/	/	1.127
< 25% with HS Degree	/	/	/	/	/	/	1.579[c]
Poverty							
< 25% below FPL	/	/	/	/	/	/	Ref.
25-50% below FPL	/	/	/	/	/	/	0.991
Missing	/	/	/	/	/	/	--
50-75% below FPL	/	/	/	/	/	/	1.333
≥ 75% below FPL	/	/	/	/	/	/	0.779

Note: The outcome variable is hospitalizations for ambulatory care sensitive conditions. All output is reported as odds ratios except the intercept.

[a] $p<0.05$, [b] $p<0.01$, [c] $p<0.001$, [d] $p<0.0001$