

Additional Reliability Testing Results

MarketScan Reliability:

Random Intercept Model:

Total Patients in 2019 and 2021	Number of providers	Intraclass correlation coefficient (ICC)
30+	63,759	0.759
40+	47,536	0.781
50+	36,848	0.796
100+	14,840	0.843
150+	8,222	0.861
200+	5,344	0.870

Beta-Binomial Model:

2019:

Total Patients in 2019	Number of providers	Between subjects variation	Min.	Percentile					Max.	Mean	SD
				10th	25th	50th	75th	90th			
30+	120,594	0.030	0.830	0.832	0.837	0.850	0.877	0.920	1.000	0.863	0.037
40+	93,675	0.031	0.837	0.838	0.844	0.851	0.882	0.923	1.000	0.867	0.035
50+	75,686	0.033	0.843	0.844	0.847	0.857	0.879	0.926	1.000	0.871	0.033
100+	35,148	0.039	0.865	0.866	0.869	0.874	0.897	0.928	1.000	0.888	0.029
150+	21,150	0.044	0.879	0.879	0.880	0.886	0.908	0.935	1.000	0.899	0.026
200+	14,525	0.048	0.887	0.888	0.888	0.894	0.920	0.940	1.000	0.906	0.025

2021:

Total Patients in 2021	Number of providers	Between subjects variation	Min.	Percentile					Max.	Mean	SD
				10th	25th	50th	75th	90th			

30+	115,844	0.031	0.83 6	0.83 8	0.84 5	0.86 0	0.89 0	0.93 5	1.00 0	0.87 3	0.04 0
40+	90,150	0.033	0.84 3	0.84 5	0.84 9	0.86 1	0.89 5	0.93 8	1.00 0	0.87 7	0.03 8
50+	72,220	0.034	0.84 9	0.85 1	0.85 6	0.86 7	0.90 0	0.94 1	1.00 0	0.88 1	0.03 6
100+	32,735	0.042	0.87 2	0.87 3	0.87 5	0.88 3	0.90 9	0.94 1	1.00 0	0.89 8	0.03 1
150+	19,337	0.047	0.88 5	0.88 6	0.88 8	0.89 6	0.92 5	0.94 8	1.00 0	0.90 8	0.02 8
200+	13,054	0.052	0.89 5	0.89 5	0.89 8	0.90 4	0.93 1	0.95 2	1.00 0	0.91 7	0.02 6

American Family Cohort Reliability:

Random Intercept Model:

Total Patients in 2019 and 2021	Number of providers	Intraclass correlation coefficient (ICC)
30+	1463	0.762
40+	1446	0.775
50+	1438	0.772
75+	1421	0.782
100+	1397	0.784
150+	1367	0.797
300+	1276	0.837
500+	1147	0.851
1000+	798	0.845
1250+	600	0.844