

Table 8: Logistic for other ocular imaging testing for those under the exclusive care of optometrists

Model Information	
Distribution	Binomial
Link Function	Logit
Number of Observations Used	338783
Number of Events	48469
Number of Trials	338783
Missing Values	40

Response Profile		
Ordered Value	Dependent variable	Total Frequency
1	1	48469
2	0	290314

PROC GENMOD is modeling the probability that dependent variable='1'.

Generalized Estimating Equations Model Information	
Correlation Structure	8-Dependent
Within-Subject Effect	year (9 levels)

Generalized Estimating Equations Fit Criteria	
Quasi-likelihood Information Criterion (QIC)	240249.5099

Score Statistics For Type 3 Generalized Estimating Equations Analysis			
Source	Degrees of Freedom	Chi-Square	p-value
Year	1	51.02	<.0001
Year-squared	1	34.78	<.0001
Open-angle glaucoma	1	400.39	<.0001
Year*Open-angle glaucoma	1	4.69	0.0303
Year-squared*Open-angle glaucoma	1	5.43	0.0198
Glaucoma suspect	1	325.12	<.0001
Year*Glaucoma suspect	1	2.49	0.1143
Year-squared*Glaucoma suspect	1	0.09	0.7613
Macular Edema	1	3.83	0.0505
Year*Macular Edema	1	0.04	0.8349
Year-squared*Macular Edema	1	0	0.9439
Exudative Macular degeneration	1	6.96	0.0083
Year*Exudative Macular degeneration	1	8.87	0.0029

Year-squared*Exudative Macular degeneration	1	5.71	0.0169
Other retina conditions	1	8.05	0.0046
Year*Other retinal conditions	1	0.02	0.8858
Year-squared*Other retinal conditions	1	2.3	0.1295
Other nerve conditions	1	52.13	<.0001
Year*Other nerve conditions	1	0.84	0.3607
Year-squared*Other nerve conditions	1	0	0.9568
Non-Proliferative Diabetic Retinopathy	1	29.12	<.0001
Proliferative Diabetic Retinopathy	1	1.21	0.2709
Race	4	14.82	0.0051
Insurance type	2	32.3	<.0001
Sex	1	39.56	<.0001
Education	4	4.09	0.394
Household Net Worth	4	14.29	0.0064
US Region of residence	4	129.87	<.0001
Insurance plan	5	90.04	<.0001
Age	1	3.7	0.0546
Obesity	1	23.99	<.0001
Hypertension	1	3.47	0.0624
Hyperlipidemia	1	9.81	0.0017
Amount of time the person was covered under the plan (years)	1	2298.68	<.0001

Parameter estimates						
Parameter	Estimate	Std error of estimate	Exponentiated estimate	95% lower confidence limit for exponentiated estimate	95% upper confidence limit for exponentiated estimate	p-value
Intercept	-6.1127	0.1502	0.0022	0.0016	0.003	<.0001
Year	0.3769	0.0505	1.4577	1.3204	1.6093	<.0001
Year-squared	-0.0296	0.0048	0.9709	0.9618	0.9801	<.0001
Open-angle glaucoma	3.0895	0.1347	21.9671	16.8685	28.6068	<.0001
Year*Open-angle glaucoma	-0.1217	0.0533	0.8854	0.7976	0.9829	0.0224
Year-squared*Open-angle glaucoma	0.0124	0.0051	1.0125	1.0025	1.0227	0.0146
Glaucoma suspect	2.6083	0.1277	13.5766	10.5703	17.4378	<.0001
Year*Glaucoma suspect	-0.0839	0.0501	0.9195	0.8335	1.0143	0.0938
Year-squared*Glaucoma suspect	0.0015	0.0048	1.0015	0.9922	1.0109	0.7474
Macular Edema	1.3054	0.4407	3.6891	1.5551	8.7514	0.0031
Year*Macular Edema	0.0386	0.1699	1.0394	0.745	1.45	0.8201
Year-squared*Macular Edema	-0.0012	0.0159	0.9988	0.9682	1.0304	0.9391
Exudative Macular degeneration	-1.9598	0.7862	0.1409	0.0302	0.6577	0.0127
Year*Exudative Macular degeneration	0.9101	0.3013	2.4846	1.3766	4.4846	0.0025
Year-squared*Exudative Macular	-0.0692	0.0278	0.9331	0.8836	0.9854	0.0128

degeneration						
Other retina conditions	-0.3464	0.1206	0.7073	0.5584	0.8958	0.0041
Year*Other retinal conditions	-0.0069	0.0462	0.9931	0.907	1.0873	0.8809
Year-squared*Other retinal conditions	0.0068	0.0043	1.0069	0.9984	1.0154	0.1128
Other nerve conditions	0.6248	0.0772	1.8678	1.6056	2.1728	<.0001
Year*Other nerve conditions	-0.0302	0.0316	0.9702	0.912	1.0322	0.3388
Year-squared*Other nerve conditions	0.0002	0.0031	1.0002	0.9941	1.0062	0.9553
Non-Proliferative Diabetic Retinopathy	0.2506	0.044	1.2848	1.1787	1.4005	<.0001
Proliferative Diabetic Retinopathy	0.2262	0.1947	1.2538	0.8561	1.8363	0.2453
Race: Blacks (vs Whites)	-0.0826	0.0268	0.9207	0.8736	0.9704	0.0021
Race: Latinos (vs Whites)	0.059	0.0299	1.0608	1.0004	1.1248	0.0483
Race: Asians (vs Whites)	-0.0141	0.0473	0.986	0.8987	1.0818	0.7651
Race: Other races (vs Whites)	0.0054	0.073	1.0054	0.8713	1.1601	0.9415
Insurance type: Commercial & Medicaid (vs Commercial only)	-0.272	0.0653	0.7619	0.6704	0.8658	<.0001
Insurance type: Commercial & Medicare (vs Commercial only)	-0.1654	0.0413	0.8476	0.7816	0.9191	<.0001
Sex: Females (vs Males)	0.0802	0.0128	1.0835	1.0568	1.111	<.0001
Education: High school diploma (vs less than High School)	-0.027	0.0559	0.9734	0.8724	1.0861	0.6293
Education: Some college (vs less than High School)	0.0016	0.0567	1.0016	0.8963	1.1192	0.978
Education: College diploma (vs less than High School)	0.0056	0.0586	1.0057	0.8966	1.128	0.9234
Education: Advanced degree (vs less than High School)	-0.0143	0.1995	0.9858	0.6668	1.4574	0.9428
Household Net Worth: 25K-75K (vs <25K)	0.0056	0.031	1.0056	0.9464	1.0686	0.8559
Household Net Worth: 75K-150K (vs <25K)	0.0655	0.0266	1.0677	1.0134	1.1249	0.0139
Household Net Worth: 150K-500K (vs <25K)	0.0724	0.024	1.0751	1.0257	1.127	0.0026
Household Net Worth: >500K (vs <25K)	0.0775	0.0293	1.0806	1.0203	1.1444	0.0081
US Region of residence: South-East (vs North-East)	0.0516	0.0186	1.053	1.0152	1.0922	0.0056
US Region of residence: Mid-West (vs North-East)	-0.1139	0.019	0.8923	0.8598	0.9262	<.0001
US Region of residence: West (vs North-East)	0.0618	0.0273	1.0637	1.0083	1.1221	0.0235
US Region of residence: Other regions (vs North-East)	0.0193	0.2489	1.0195	0.6259	1.6607	0.9381
Insurance Plan: PPO (vs HMO)	0.1461	0.023	1.1574	1.1064	1.2107	<.0001
Insurance Plan: EPO (vs HMO)	0.1383	0.024	1.1484	1.0955	1.2038	<.0001
Insurance Plan: POS (vs HMO)	0.1558	0.0177	1.1686	1.1288	1.2099	<.0001
Insurance Plan: IND (vs HMO)	0.0214	0.0405	1.0217	0.9437	1.106	0.5967
Insurance Plan: Other plans (vs HMO)	0.0684	0.0994	1.0708	0.8812	1.3011	0.4915
Age	0.0016	0.0008	1.0016	1	1.0033	0.0535
Obesity	-0.0951	0.0197	0.9093	0.8749	0.945	<.0001
Hypertension	-0.0272	0.0145	0.9732	0.9459	1.0013	0.0618
Hyperlipidemia	0.0451	0.0144	1.0461	1.017	1.076	0.0017

Amount of time the person was covered under the plan (years)	1.3178	0.0313	3.7351	3.513	3.9712	<.0001
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HMO = health maintenance organization

IND = indemnity plan

PPO = preferred provider organization

EPO = exclusive provider organization

The fitted model coefficients reported here were used to predict odds (or probabilities) of the outcome for different groups of enrollees in different years. Various comparisons were then made between the estimated odds and these comparative odds were reported in the paper. While estimating these odds, all other predictors were assumed to be at their average value or reference value.

Table 9: Logistic for other ocular imaging testing for those under the exclusive care of ophthalmologists

Model Information	
Distribution	Binomial
Link Function	Logit
Number of Observations Used	1546292
Number of Events	297317
Number of Trials	1546292
Missing Values	153

Response Profile		
Ordered Value	Dependent variable	Total Frequency
1	1	297317
2	0	1248975

PROC GENMOD is modeling the probability that dependent variable='1'.

Generalized Estimating Equations Model Information	
Correlation Structure	8-Dependent
Within-Subject Effect	year (9 levels)

Generalized Estimating Equations Fit Criteria	
Quasi-likelihood Information Criterion (QIC)	1311243.053

Score Statistics For Type 3 Generalized Estimating Equations Analysis			
Source	Degrees of Freedom	Chi-Square	p-value
Year	1	758.84	<.0001
Year-squared	1	328.89	<.0001
Open-angle glaucoma	1	5290.16	<.0001
Year*Open-angle glaucoma	1	140.86	<.0001
Year-squared*Open-angle glaucoma	1	54.05	<.0001
Glaucoma suspect	1	4707.37	<.0001
Year*Glaucoma suspect	1	337.48	<.0001
Year-squared*Glaucoma suspect	1	98.03	<.0001
Macular Edema	1	131.98	<.0001
Year*Macular Edema	1	122.32	<.0001
Year-squared*Macular Edema	1	135.06	<.0001

Exudative Macular degeneration	1	1.21	0.2706
Year*Exudative Macular degeneration	1	112.02	<.0001
Year-squared*Exudative Macular degeneration	1	21.5	<.0001
Other retina conditions	1	110.46	<.0001
Year*Other retinal conditions	1	19.39	<.0001
Year-squared*Other retinal conditions	1	0.39	0.5312
Other nerve conditions	1	343.24	<.0001
Year*Other nerve conditions	1	133.59	<.0001
Year-squared*Other nerve conditions	1	79.17	<.0001
Non-Proliferative Diabetic Retinopathy	1	662.2	<.0001
Proliferative Diabetic Retinopathy	1	206.29	<.0001
Race	4	15.31	0.0041
Insurance type	2	177.25	<.0001
Sex	1	18.34	<.0001
Education	4	174.32	<.0001
Household Net Worth	4	183.34	<.0001
US Region of residence	4	716.16	<.0001
Insurance plan	5	224.87	<.0001
Age	1	7.73	0.0054
Obesity	1	49.16	<.0001
Hypertension	1	1.23	0.2676
Hyperlipidemia	1	62	<.0001
Amount of time the person was covered under the plan (years)	1	15954.2	<.0001

Parameter estimates						
Parameter	Estimate	Std error of estimate	Exponentiated estimate	95% lower confidence limit for exponentiated estimate	95% upper confidence limit for exponentiated estimate	p-value
Intercept	-5.7222	0.0491	0.0033	0.003	0.0036	<.0001
Year	0.4159	0.0148	1.5157	1.4723	1.5603	<.0001
Year-squared	-0.0273	0.0015	0.9731	0.9703	0.9759	<.0001
Open-angle glaucoma	2.7286	0.0363	15.3111	14.2599	16.4397	<.0001
Year*Open-angle glaucoma	-0.1853	0.015	0.8308	0.8068	0.8556	<.0001
Year-squared*Open-angle glaucoma	0.0114	0.0015	1.0114	1.0085	1.0144	<.0001
Glaucoma suspect	2.5963	0.0362	13.4134	12.4949	14.3995	<.0001
Year*Glaucoma suspect	-0.2848	0.015	0.7522	0.7304	0.7746	<.0001
Year-squared*Glaucoma suspect	0.0152	0.0015	1.0153	1.0124	1.0183	<.0001
Macular Edema	0.9528	0.0675	2.5931	2.2718	2.9599	<.0001
Year*Macular Edema	0.3149	0.0273	1.3702	1.2988	1.4455	<.0001

Year-squared*Macular Edema	-0.0316	0.0026	0.9689	0.9639	0.974	<.0001
Exudative Macular degeneration	-0.0977	0.0812	0.9069	0.7735	1.0633	0.2288
Year*Exudative Macular degeneration	0.3512	0.0332	1.4208	1.3312	1.5163	<.0001
Year-squared*Exudative Macular degeneration	-0.0153	0.0032	0.9848	0.9786	0.991	<.0001
Other retina conditions	-0.3021	0.0281	0.7392	0.6996	0.7811	<.0001
Year*Other retinal conditions	0.0537	0.0119	1.0551	1.0309	1.08	<.0001
Year-squared*Other retinal conditions	-0.0008	0.0012	0.9992	0.9969	1.0016	0.5215
Other nerve conditions	0.448	0.0223	1.5652	1.4983	1.6352	<.0001
Year*Other nerve conditions	-0.1184	0.0098	0.8883	0.8714	0.9056	<.0001
Year-squared*Other nerve conditions	0.0093	0.001	1.0093	1.0073	1.0113	<.0001
Non-Proliferative Diabetic Retinopathy	0.345	0.0126	1.4119	1.3774	1.4474	<.0001
Proliferative Diabetic Retinopathy	0.3202	0.0213	1.3774	1.321	1.4362	<.0001
Race: Blacks (vs Whites)	-0.0051	0.0111	0.9949	0.9735	1.0168	0.6443
Race: Latinos (vs Whites)	0.0348	0.0116	1.0355	1.0123	1.0592	0.0026
Race: Asians (vs Whites)	0.0327	0.0153	1.0333	1.0027	1.0647	0.0324
Race: Other races (vs Whites)	0.0441	0.0283	1.0451	0.9888	1.1046	0.1188
Insurance type: Commercial & Medicaid (vs Commercial only)	-0.3058	0.0342	0.7366	0.6888	0.7876	<.0001
Insurance type: Commercial & Medicare (vs Commercial only)	-0.1692	0.0158	0.8444	0.8186	0.8709	<.0001
Sex: Females (vs Males)	0.0246	0.0057	1.0249	1.0135	1.0364	<.0001
Education: High school diploma (vs less than High School)	0.0419	0.0229	1.0428	0.9971	1.0907	0.0667
Education: Some college (vs less than High School)	0.0296	0.0231	1.03	0.9844	1.0778	0.2008
Education: College diploma (vs less than High School)	-0.0552	0.0238	0.9463	0.9031	0.9915	0.0205
Education: Advanced degree (vs less than High School)	-0.2527	0.0523	0.7767	0.701	0.8605	<.0001
Household Net Worth: 25K-75K (vs <25K)	0.0169	0.0155	1.017	0.9865	1.0484	0.2775
Household Net Worth: 75K-150K (vs <25K)	0.0688	0.0134	1.0712	1.0434	1.0997	<.0001
Household Net Worth: 150K-500K (vs <25K)	0.1058	0.0117	1.1117	1.0864	1.1375	<.0001
Household Net Worth: >500K (vs <25K)	0.1543	0.0132	1.1669	1.1371	1.1974	<.0001
US Region of residence: South-East (vs North-East)	0.0518	0.008	1.0532	1.0368	1.0697	<.0001
US Region of residence: Mid-West (vs North-East)	-0.1396	0.0089	0.8697	0.8546	0.8851	<.0001
US Region of residence: West (vs North-East)	0.0429	0.0101	1.0438	1.0234	1.0646	<.0001
US Region of residence: Other regions (vs North-East)	-0.08	0.1058	0.9231	0.7503	1.1358	0.4495
Insurance Plan: PPO (vs HMO)	0.0022	0.0109	1.0022	0.9809	1.0239	0.8425
Insurance Plan: EPO (vs HMO)	0.0514	0.0121	1.0528	1.0281	1.0781	<.0001
Insurance Plan: POS (vs HMO)	0.0447	0.0094	1.0458	1.0267	1.0652	<.0001
Insurance Plan: IND (vs HMO)	-0.0964	0.0139	0.9081	0.8837	0.9331	<.0001
Insurance Plan: Other plans (vs HMO)	-0.4163	0.0515	0.6595	0.5961	0.7295	<.0001

Age	0.0009	0.0003	1.0009	1.0003	1.0016	0.0051
Obesity	-0.0618	0.0088	0.9401	0.9239	0.9565	<.0001
Hypertension	-0.0076	0.0068	0.9924	0.9793	1.0058	0.2654
Hyperlipidemia	0.0537	0.0068	1.0552	1.0412	1.0693	<.0001
Amount of time the person was covered under the plan (years)	1.5657	0.014	4.7862	4.6566	4.9195	<.0001

HMO = health maintenance organization

IND = indemnity plan

PPO = preferred provider organization

EPO = exclusive provider organization

The fitted model coefficients reported here were used to predict odds (or probabilities) of the outcome for different groups of enrollees in different years. Various comparisons were then made between the estimated odds and these comparative odds were reported in the paper. While estimating these odds, all other predictors were assumed to be at their average value or reference value.

Table 10: Logistic for other ocular imaging testing for those under the care of both provider types

Model Information	
Distribution	Binomial
Link Function	Logit
Number of Observations Used	467803
Number of Events	92549
Number of Trials	467803
Missing Values	43

Response Profile		
Ordered Value	Dependent variable	Total Frequency
1	1	92549
2	0	375254

PROC GENMOD is modeling the probability that dependent variable='1'.

Generalized Estimating Equations Model Information	
Correlation Structure	8-Dependent
Within-Subject Effect	year (9 levels)

Generalized Estimating Equations Fit Criteria	
Quasi-likelihood Information Criterion (QIC)	400492.5892

Score Statistics For Type 3 Generalized Estimating Equations Analysis			
Source	Degrees of Freedom	Chi-Square	p-value
Year	1	276.62	<.0001
Year-squared	1	128.23	<.0001
Open-angle glaucoma	1	1557.6	<.0001
Year*Open-angle glaucoma	1	51.08	<.0001
Year-squared*Open-angle glaucoma	1	19.21	<.0001
Glaucoma suspect	1	1433.92	<.0001
Year*Glaucoma suspect	1	169.64	<.0001
Year-squared*Glaucoma suspect	1	62.82	<.0001
Macular Edema	1	51.4	<.0001
Year*Macular Edema	1	39.41	<.0001
Year-squared*Macular Edema	1	51.83	<.0001

Exudative Macular degeneration	1	0.14	0.7076
Year*Exudative Macular degeneration	1	33.99	<.0001
Year-squared*Exudative Macular degeneration	1	4.55	0.0329
Other retina conditions	1	27.1	<.0001
Year*Other retinal conditions	1	6.19	0.0128
Year-squared*Other retinal conditions	1	0	0.9594
Other nerve conditions	1	65.54	<.0001
Year*Other nerve conditions	1	20.84	<.0001
Year-squared*Other nerve conditions	1	9.04	0.0026
Non-Proliferative Diabetic Retinopathy	1	239.22	<.0001
Proliferative Diabetic Retinopathy	1	101.52	<.0001
Race	4	3.06	0.5481
Insurance type	2	123.14	<.0001
Sex	1	0.52	0.4692
Education	4	8.79	0.0667
Household Net Worth	4	31	<.0001
US Region of residence	4	474.01	<.0001
Insurance plan	5	212.19	<.0001
Age	1	1.41	0.2354
Obesity	1	22.82	<.0001
Hypertension	1	4.23	0.0397
Hyperlipidemia	1	1.87	0.1715
Amount of time the person was covered under the plan (years)	1	3242.76	<.0001

Parameter estimates						
Parameter	Estimate	Std error of estimate	Exponentiated estimate	95% lower confidence limit for exponentiated estimate	95% upper confidence limit for exponentiated estimate	p-value
Intercept	-5.5198	0.0893	0.004	0.0034	0.0048	<.0001
Year	0.4314	0.0252	1.5395	1.4652	1.6175	<.0001
Year-squared	-0.0288	0.0025	0.9716	0.9669	0.9763	<.0001
Open-angle glaucoma	2.7201	0.0634	15.1812	13.4064	17.1911	<.0001
Year*Open-angle glaucoma	-0.1926	0.0257	0.8248	0.7843	0.8675	<.0001
Year-squared*Open-angle glaucoma	0.0116	0.0025	1.0116	1.0066	1.0166	<.0001
Glaucoma suspect	2.6015	0.0636	13.4834	11.9037	15.2729	<.0001
Year*Glaucoma suspect	-0.3483	0.0257	0.7059	0.6712	0.7424	<.0001
Year-squared*Glaucoma suspect	0.0207	0.0025	1.0209	1.0159	1.0259	<.0001
Macular Edema	0.9995	0.1163	2.7169	2.1629	3.4127	<.0001
Year*Macular Edema	0.301	0.0449	1.3512	1.2374	1.4755	<.0001
Year-squared*Macular Edema	-0.0318	0.0042	0.9687	0.9608	0.9767	<.0001

Exudative Macular degeneration	0.0512	0.1236	1.0526	0.8261	1.3412	0.6785
Year*Exudative Macular degeneration	0.2896	0.0493	1.3359	1.2128	1.4714	<.0001
Year-squared*Exudative Macular degeneration	-0.0103	0.0047	0.9897	0.9807	0.9989	0.0278
Other retina conditions	-0.2744	0.0512	0.7601	0.6875	0.8403	<.0001
Year*Other retinal conditions	0.0542	0.0211	1.0557	1.0129	1.1003	0.0103
Year-squared*Other retinal conditions	0.0001	0.0021	1.0001	0.996	1.0042	0.9581
Other nerve conditions	0.3641	0.0421	1.4392	1.3252	1.563	<.0001
Year*Other nerve conditions	-0.0848	0.0179	0.9187	0.8871	0.9515	<.0001
Year-squared*Other nerve conditions	0.0056	0.0018	1.0056	1.002	1.0091	0.002
Non-Proliferative Diabetic Retinopathy	0.3579	0.0218	1.4304	1.3705	1.4928	<.0001
Proliferative Diabetic Retinopathy	0.3783	0.0359	1.4598	1.3605	1.5664	<.0001
Race: Blacks (vs Whites)	-0.0112	0.0216	0.9889	0.9478	1.0317	0.6054
Race: Latinos (vs Whites)	0.008	0.0242	1.008	0.9613	1.057	0.7418
Race: Asians (vs Whites)	-0.0521	0.0345	0.9493	0.8871	1.0157	0.1317
Race: Other races (vs Whites)	-0.0331	0.0538	0.9675	0.8706	1.0751	0.5389
Insurance type: Commercial & Medicaid (vs Commercial only)	-0.3117	0.0538	0.7322	0.6589	0.8136	<.0001
Insurance type: Commercial & Medicare (vs Commercial only)	-0.2896	0.0286	0.7485	0.7077	0.7917	<.0001
Sex: Females (vs Males)	0.0075	0.0104	1.0076	0.9873	1.0283	0.467
Education: High school diploma (vs less than High School)	-0.0346	0.0445	0.9659	0.8853	1.054	0.4362
Education: Some college (vs less than High School)	-0.0291	0.0451	0.9713	0.8892	1.061	0.5178
Education: College diploma (vs less than High School)	-0.0684	0.0464	0.9339	0.8526	1.0228	0.1406
Education: Advanced degree (vs less than High School)	0.0741	0.1336	1.0769	0.8288	1.3993	0.5793
Household Net Worth: 25K-75K (vs <25K)	0.0935	0.0265	1.098	1.0425	1.1566	0.0004
Household Net Worth: 75K-150K (vs <25K)	0.0245	0.0231	1.0248	0.9795	1.0723	0.288
Household Net Worth: 150K-500K (vs <25K)	0.0796	0.0204	1.0829	1.0405	1.127	<.0001
Household Net Worth: >500K (vs <25K)	0.1044	0.0237	1.1101	1.0598	1.1627	<.0001
US Region of residence: South-East (vs North-East)	0.0987	0.0153	1.1038	1.0711	1.1374	<.0001
US Region of residence: Mid-West (vs North-East)	-0.1691	0.016	0.8445	0.8184	0.8713	<.0001
US Region of residence: West (vs North-East)	0.0524	0.0208	1.0538	1.0117	1.0977	0.0118
US Region of residence: Other regions (vs North-East)	0.2809	0.1869	1.3243	0.9181	1.9102	0.1329
Insurance Plan: PPO (vs HMO)	0.1902	0.0196	1.2095	1.1638	1.2569	<.0001
Insurance Plan: EPO (vs HMO)	0.1271	0.0207	1.1355	1.0903	1.1827	<.0001
Insurance Plan: POS (vs HMO)	0.1748	0.0157	1.191	1.1548	1.2284	<.0001
Insurance Plan: IND (vs HMO)	0.0439	0.024	1.0449	0.997	1.0952	0.0666
Insurance Plan: Other plans (vs HMO)	-0.4323	0.0867	0.649	0.5476	0.7693	<.0001
Age	0.0007	0.0006	1.0007	0.9995	1.0019	0.2325
Obesity	-0.072	0.0151	0.9306	0.9034	0.9586	<.0001

Hypertension	-0.0257	0.0124	0.9746	0.9511	0.9986	0.0386
Hyperlipidemia	0.0171	0.0124	1.0172	0.9927	1.0423	0.17
Amount of time the person was covered under the plan (years)	1.4754	0.0294	4.373	4.1279	4.6327	<.0001

HMO = health maintenance organization

IND = indemnity plan

PPO = preferred provider organization

EPO = exclusive provider organization

The fitted model coefficients reported here were used to predict odds (or probabilities) of the outcome for different groups of enrollees in different years. Various comparisons were then made between the estimated odds and these comparative odds were reported in the paper. While estimating these odds, all other predictors were assumed to be at their average value or reference value.

Table 11: Logistic for other ocular imaging testing, including all provider types

Model Information	
Distribution	Binomial
Link Function	Logit
Number of Observations Used	2364531
Number of Events	439290
Number of Trials	2364531
Missing Values	236

Response Profile		
Ordered Value	Dependent variable	Total Frequency
1	1	439290
2	0	1925241

PROC GENMOD is modeling the probability that dependent variable='1'.

Generalized Estimating Equations Model Information	
Correlation Structure	8-Dependent
Within-Subject Effect	year (9 levels)

Generalized Estimating Equations Fit Criteria	
Quasi-likelihood Information Criterion (QIC)	1961894.52

Score Statistics For Type 3 Generalized Estimating Equations Analysis			
Source	Degrees of Freedom	Chi-Square	p-value
Year	1	1132.79	<.0001
Year-squared	1	536.94	<.0001
Open-angle glaucoma	1	7388.14	<.0001
Year*Open-angle glaucoma	1	211.08	<.0001
Year-squared*Open-angle glaucoma	1	96.69	<.0001
Glaucoma suspect	1	6534.63	<.0001
Year*Glaucoma suspect	1	462.06	<.0001
Year-squared*Glaucoma suspect	1	141.65	<.0001
Macular Edema	1	189.03	<.0001
Year*Macular Edema	1	162.78	<.0001
Year-squared*Macular Edema	1	182.9	<.0001

Exudative Macular degeneration	1	0.65	0.4211
Year*Exudative Macular degeneration	1	153.44	<.0001
Year-squared*Exudative Macular degeneration	1	27.1	<.0001
Other retina conditions	1	140.38	<.0001
Year*Other retinal conditions	1	17.28	<.0001
Year-squared*Other retinal conditions	1	0.3	0.5863
Other nerve conditions	1	454.39	<.0001
Year*Other nerve conditions	1	148.95	<.0001
Year-squared*Other nerve conditions	1	83.58	<.0001
Non-Proliferative Diabetic Retinopathy	1	949	<.0001
Proliferative Diabetic Retinopathy	1	335.83	<.0001
Race	4	15.29	0.0041
Insurance type	2	311.71	<.0001
Sex: Females (vs Males)	1	33.7	<.0001
Education	4	144	<.0001
Household Net Worth	4	193.5	<.0001
US Region of residence	4	1245.5	<.0001
Insurance plan	5	399.51	<.0001
Age	1	11.6	0.0007
Obesity	1	95.67	<.0001
Hypertension	1	6.73	0.0095
Hyperlipidemia	1	67.52	<.0001
Amount of time the person was covered under the plan (years)	1	21560	<.0001
Eye-care	3	1913.73	<.0001

Parameter estimates

Parameter	Estimate	Std error of estimate	Exponentiated estimate	95% lower confidence limit for exponentiated estimate	95% upper confidence limit for exponentiated estimate	p-value
Intercept	-5.7141	0.0409	0.0033	0.003	0.0036	<.0001
Year	0.4235	0.0123	1.5274	1.4909	1.5647	<.0001
Year-squared	-0.0288	0.0012	0.9716	0.9693	0.9739	<.0001
Open-angle glaucoma	2.7577	0.0305	15.764	14.8481	16.7365	<.0001
Year*Open-angle glaucoma	-0.1896	0.0125	0.8273	0.8072	0.8478	<.0001
Year-squared*Open-angle glaucoma	0.0126	0.0012	1.0127	1.0103	1.0152	<.0001
Glaucoma suspect	2.5903	0.0304	13.3342	12.5626	14.1533	<.0001
Year*Glaucoma suspect	-0.2777	0.0124	0.7575	0.7392	0.7762	<.0001
Year-squared*Glaucoma suspect	0.0151	0.0012	1.0152	1.0128	1.0177	<.0001
Macular Edema	0.9761	0.058	2.654	2.3686	2.9737	<.0001
Year*Macular Edema	0.3091	0.0231	1.3622	1.3019	1.4254	<.0001
Year-squared*Macular Edema	-0.0309	0.0022	0.9696	0.9654	0.9738	<.0001

Exudative Macular degeneration	-0.0598	0.0679	0.9419	0.8245	1.076	0.3781
Year*Exudative Macular degeneration	0.3406	0.0275	1.4058	1.3319	1.4838	<.0001
Year-squared*Exudative Macular degeneration	-0.0141	0.0026	0.986	0.9809	0.9911	<.0001
Other retina conditions	-0.2919	0.0241	0.7469	0.7125	0.7829	<.0001
Year*Other retinal conditions	0.0429	0.01	1.0439	1.0235	1.0646	<.0001
Year-squared*Other retinal conditions	0.0006	0.001	1.0006	0.9986	1.0025	0.5762
Other nerve conditions	0.44	0.0191	1.5528	1.4958	1.6119	<.0001
Year*Other nerve conditions	-0.1053	0.0083	0.9001	0.8856	0.9148	<.0001
Year-squared*Other nerve conditions	0.0079	0.0008	1.008	1.0063	1.0096	<.0001
Non-Proliferative Diabetic Retinopathy	0.3472	0.0106	1.4151	1.3859	1.4448	<.0001
Proliferative Diabetic Retinopathy	0.3523	0.0183	1.4223	1.3721	1.4744	<.0001
Race: Blacks (vs Whites)	-0.0138	0.0092	0.9863	0.9686	1.0043	0.1359
Race: Latinos (vs Whites)	0.0312	0.0099	1.0317	1.012	1.0518	0.0015
Race: Asians (vs Whites)	0.0162	0.0134	1.0163	0.99	1.0433	0.2257
Race: Other races (vs Whites)	0.0246	0.0237	1.0249	0.9784	1.0736	0.2997
Insurance type: Commercial & Medicaid (vs Commercial only)	-0.3038	0.0263	0.738	0.7009	0.7771	<.0001
Insurance type: Commercial & Medicare (vs Commercial only)	-0.1881	0.013	0.8286	0.8077	0.85	<.0001
Sex: Females (vs Males)	0.0271	0.0047	1.0275	1.0182	1.0369	<.0001
Education: High school diploma (vs less than High School)	0.0233	0.0191	1.0236	0.986	1.0626	0.2224
Education: Some college (vs less than High School)	0.0194	0.0193	1.0196	0.9817	1.059	0.3153
Education: College diploma (vs less than High School)	-0.0479	0.0199	0.9533	0.9168	0.9912	0.0162
Education: Advanced degree (vs less than High School)	-0.2017	0.047	0.8173	0.7454	0.8962	<.0001
Household Net Worth: 25K-75K (vs <25K)	0.0323	0.0123	1.0328	1.0083	1.058	0.0084
Household Net Worth: 75K-150K (vs <25K)	0.0596	0.0106	1.0614	1.0396	1.0837	<.0001
Household Net Worth: 150K-500K (vs <25K)	0.0948	0.0093	1.0995	1.0795	1.1198	<.0001
Household Net Worth: >500K (vs <25K)	0.1345	0.0107	1.1439	1.1203	1.1681	<.0001
US Region of residence: South-East (vs North-East)	0.0625	0.0066	1.0645	1.0508	1.0784	<.0001
US Region of residence: Mid-West (vs North-East)	-0.1386	0.0072	0.8706	0.8584	0.8829	<.0001
US Region of residence: West (vs North-East)	0.0483	0.0086	1.0494	1.0319	1.0672	<.0001
US Region of residence: Other regions (vs North-East)	-0.0078	0.087	0.9923	0.8367	1.1767	0.9288
Insurance Plan: PPO (vs HMO)	0.0625	0.0088	1.0645	1.0464	1.083	<.0001
Insurance Plan: EPO (vs HMO)	0.0838	0.0096	1.0874	1.0672	1.108	<.0001
Insurance Plan: POS (vs HMO)	0.0903	0.0073	1.0945	1.0789	1.1103	<.0001
Insurance Plan: IND (vs HMO)	-0.0485	0.0114	0.9527	0.9317	0.9741	<.0001
Insurance Plan: Other plans (vs HMO)	-0.352	0.0407	0.7033	0.6493	0.7617	<.0001
Age	0.001	0.0003	1.001	1.0004	1.0015	0.0006
Obesity	-0.0692	0.0071	0.9331	0.9202	0.9462	<.0001

Hypertension	-0.0144	0.0055	0.9857	0.9751	0.9964	0.0092
Hyperlipidemia	0.0453	0.0055	1.0463	1.0351	1.0577	<.0001
Amount of time the person was covered under the plan (years)	1.5172	0.0117	4.5595	4.456	4.6654	<.0001
Eye-care: Visited unspecified eye provider (vs visited ophthalmologists only)	-0.8511	0.0411	0.427	0.3939	0.4628	<.0001
Eye-care: Visited optometrists only (vs visited ophthalmologists only)	-0.2215	0.0069	0.8014	0.7906	0.8123	<.0001
Eye-care: Visited both (vs visited ophthalmologists only)	0.0598	0.0059	1.0616	1.0494	1.074	<.0001

HMO = health maintenance organization
IND = indemnity plan
PPO = preferred provider organization
EPO = exclusive provider organization

The fitted model coefficients reported here were used to predict odds (or probabilities) of the outcome for different groups of enrollees in different years. Various comparisons were then made between the estimated odds and these comparative odds were reported in the paper. While estimating these odds, all other predictors were assumed to be at their average value or reference value.

Table 12: Logistic for other ocular imaging testing including all provider types, but only in open-angle glaucoma patients

Model Information	
Distribution	Binomial
Link Function	Logit
Number of Observations Used	463782
Number of Events	167311
Number of Trials	463782

Response Profile		
Ordered Value	Dependent variable	Total Frequency
1	1	167311
2	0	296471

PROC GENMOD is modeling the probability that dependent variable='1'.

Generalized Estimating Equations Model Information	
Correlation Structure	8-Dependent
Within-Subject Effect	year (9 levels)

Generalized Estimating Equations Fit Criteria	
Quasi-likelihood Information Criterion (QIC)	583622.6715

Score Statistics For Type 3 Generalized Estimating Equations Analysis			
Source	Degrees of Freedom	Chi-Square	p-value
Year	1	1337.81	<.0001
Year-squared	1	509.26	<.0001
Macular Edema	1	1.49	0.2228
Year*Macular Edema	1	13	0.0003
Year-squared*Macular Edema	1	9.18	0.0024
Exudative Macular degeneration	1	0.31	0.579
Year*Exudative Macular degeneration	1	1.03	0.3097
Year-squared*Exudative Macular degeneration	1	1.06	0.3033
Other retina conditions	1	0.49	0.4847
Year*Other retinal conditions	1	0.59	0.4413
Year-squared*Other retinal conditions	1	0.07	0.7942

Other nerve conditions	1	21.78	<.0001
Year*Other nerve conditions	1	10.99	0.0009
Year-squared*Other nerve conditions	1	10.17	0.0014
Non-Proliferative Diabetic Retinopathy	1	23.61	<.0001
Proliferative Diabetic Retinopathy	1	15.34	<.0001
Race	4	21.06	0.0003
Insurance type	2	113.54	<.0001
Sex	1	56.53	<.0001
Education	4	41.91	<.0001
Household Net Worth	4	170.01	<.0001
US Region of residence	4	165.21	<.0001
Insurance plan	5	160.34	<.0001
Age	1	83.69	<.0001
Obesity	1	31.23	<.0001
Hypertension	1	20.31	<.0001
Hyperlipidemia	1	97.5	<.0001
Amount of time the person was covered under the plan (years)	1	9503.81	<.0001
Eye-care	3	302.3	<.0001

Parameter estimates						
Parameter	Estimate	Std error of estimate	Exponentiated estimate	95% lower confidence limit for exponentiated estimate	95% upper confidence limit for exponentiated estimate	p-value
Intercept	-2.9927	0.0505	0.05015	0.04543	0.05537	<.0001
Year	0.2385	0.0066	1.26936	1.25312	1.28582	<.0001
Year-squared	-0.0161	0.0007	0.98399	0.98261	0.98536	<.0001
Macular Edema	0.1495	0.1134	1.16129	0.92979	1.45042	0.1874
Year*Macular Edema	0.1759	0.0482	1.19236	1.08481	1.31057	0.0003
Year-squared*Macular Edema	-0.0147	0.0048	0.9854	0.9762	0.9947	0.0021
Exudative Macular degeneration	-0.0684	0.1185	0.93389	0.74034	1.17803	0.5638
Year*Exudative Macular degeneration	0.0531	0.0509	1.05456	0.95443	1.16519	0.2966
Year-squared*Exudative Macular degeneration	0.0055	0.0051	1.00549	0.99544	1.01563	0.2854
Other retina conditions	0.0248	0.0347	1.02513	0.95782	1.09717	0.4738
Year*Other retinal conditions	0.0119	0.0152	1.01198	0.98225	1.04261	0.4336
Year-squared*Other retinal conditions	0.0004	0.0016	1.00042	0.99734	1.0035	0.7913

Other nerve conditions	0.1318	0.0275	1.14088	1.08112	1.20395	<.0001
Year*Other nerve conditions	-0.0416	0.0123	0.95924	0.93635	0.98268	0.0007
Year-squared*Other nerve conditions	0.0042	0.0013	1.00417	1.00164	1.00671	0.0012
Non-Proliferative Diabetic Retinopathy	0.0888	0.0181	1.0929	1.05476	1.13243	<.0001
Proliferative Diabetic Retinopathy	-0.1176	0.0301	0.88905	0.83816	0.94304	<.0001
Race: Blacks (vs Whites)	-0.0484	0.0143	0.95274	0.92648	0.97975	0.0007
Race: Latinos (vs Whites)	-0.0245	0.0182	0.97582	0.94157	1.01131	0.1793
Race: Asians (vs Whites)	0.0681	0.0251	1.07043	1.01905	1.12439	0.0067
Race: Other races (vs Whites)	-0.0249	0.0437	0.97545	0.8954	1.06265	0.5694
Insurance type: Commercial & Medicaid (vs Commercial only)	-0.4028	0.0438	0.66843	0.61339	0.7284	<.0001
Insurance type: Commercial & Medicare (vs Commercial only)	-0.1286	0.0199	0.87934	0.84576	0.91425	<.0001
Sex: Females (vs Males)	0.0628	0.0083	1.06486	1.04758	1.08242	<.0001
Education: High school diploma (vs less than High School)	0.0481	0.0312	1.04932	0.98713	1.11542	0.1225
Education: Some college (vs less than High School)	0.0773	0.0317	1.0804	1.01533	1.14965	0.0147
Education: College diploma (vs less than High School)	0.0208	0.033	1.02102	0.95701	1.0893	0.5289
Education: Advanced degree (vs less than High School)	-0.2914	0.0965	0.74719	0.61845	0.90271	0.0025
Household Net Worth: 25K-75K (vs <25K)	0.062	0.0214	1.064	1.02038	1.10949	0.0037
Household Net Worth: 75K-150K (vs <25K)	0.0811	0.0185	1.08445	1.04579	1.12454	<.0001
Household Net Worth: 150K-500K (vs <25K)	0.1442	0.0162	1.15508	1.11894	1.19239	<.0001
Household Net Worth: >500K (vs <25K)	0.226	0.0188	1.25358	1.20814	1.30073	<.0001
US Region of residence: South-East (vs North-East)	-0.0467	0.0123	0.95435	0.9317	0.97756	0.0001
US Region of residence: Mid-West (vs North-East)	-0.1554	0.0132	0.85604	0.83417	0.87848	<.0001
US Region of residence: West (vs North-East)	-0.0754	0.0159	0.92741	0.89893	0.95679	<.0001
US Region of residence: Other regions (vs North-East)	-0.0542	0.1731	0.94722	0.67468	1.32985	0.7541
Insurance Plan: PPO (vs HMO)	0.0496	0.0157	1.05081	1.019	1.08362	0.0016
Insurance Plan: EPO (vs HMO)	0.1048	0.018	1.11049	1.07193	1.15045	<.0001
Insurance Plan: POS (vs HMO)	0.0989	0.0137	1.10393	1.0747	1.13396	<.0001
Insurance Plan: IND (vs HMO)	-0.0353	0.0188	0.9653	0.93039	1.00153	0.0603
Insurance Plan: Other plans (vs HMO)	-0.368	0.0555	0.69209	0.62071	0.77168	<.0001
Age	-0.0045	0.0005	0.99552	0.99456	0.99647	<.0001
Obesity	-0.0724	0.013	0.93014	0.90678	0.95409	<.0001
Hypertension	-0.0473	0.0105	0.95383	0.93449	0.97358	<.0001
Hyperlipidemia	0.0999	0.0101	1.10501	1.08329	1.12715	<.0001
Amount of time the person was covered under the plan (years)	1.9038	0.0209	6.71109	6.44189	6.99155	<.0001
Eye-care: Visited unspecified eye provider (vs visited ophthalmologists only)	-1.1529	0.0842	0.31573	0.26768	0.37242	<.0001
Eye-care: Visited optometrists only (vs visited ophthalmologists only)	-0.074	0.0159	0.92863	0.90009	0.95808	<.0001
Eye-care: Visited both (vs visited	0.0811	0.0103	1.0845	1.06285	1.10659	<.0001

| ophthalmologists only) | | | | | | |

HMO = health maintenance organization

IND = indemnity plan

PPO = preferred provider organization

EPO = exclusive provider organization

The fitted model coefficients reported here were used to predict odds (or probabilities) of the outcome for different groups of enrollees in different years. Various comparisons were then made between the estimated odds and these comparative odds were reported in the paper. While estimating these odds, all other predictors were assumed to be at their average value or reference value.

Table 13: Logistic for fundus photography testing for those under the exclusive care of optometrists

Model Information	
Distribution	Binomial
Link Function	Logit
Number of Observations Used	338783
Number of Events	60059
Number of Trials	338783
Missing Values	40

Response Profile		
Ordered Value	Dependent variable	Total Frequency
1	1	60059
2	0	278724

PROC GENMOD is modeling the probability that dependent variable='1'.

Generalized Estimating Equations Model Information	
Correlation Structure	8-Dependent
Within-Subject Effect	year (9 levels)
Generalized Estimating Equations Fit Criteria	
Quasi-likelihood Information Criterion	307144.1228

Score Statistics For Type 3 Generalized Estimating Equations Analysis			
Source	Degrees of Freedom	Chi-Square	p-value
Year	1	0.23	0.6316
Year-squared	1	0.7	0.4033
Open-angle glaucoma	1	9.74	0.0018
Year*Open-angle glaucoma	1	9.21	0.0024
Year-squared*Open-angle glaucoma	1	4.95	0.0261
Glaucoma suspect	1	15.18	<.0001
Year*Glaucoma suspect	1	1.23	0.2683
Year-squared*Glaucoma suspect	1	1.48	0.2238
Macular Edema	1	0.28	0.5996
Year*Macular Edema	1	0	0.9804
Year-squared*Macular Edema	1	0.01	0.9422

Exudative Macular degeneration	1	0.18	0.6741
Year*Exudative Macular degeneration	1	0.18	0.6722
Year-squared*Exudative Macular degeneration	1	0.08	0.7782
Other retina conditions	1	40.27	<.0001
Year*Other retinal conditions	1	28.97	<.0001
Year-squared*Other retinal conditions	1	25.42	<.0001
Other nerve conditions	1	42.66	<.0001
Year*Other nerve conditions	1	26.6	<.0001
Year-squared*Other nerve conditions	1	22.08	<.0001
Non-Proliferative Diabetic Retinopathy	1	381.32	<.0001
Proliferative Diabetic Retinopathy	1	0	0.9964
Race	4	18.09	0.0012
Insurance type	2	14.05	0.0009
Sex	1	7.7	0.0055
Education	4	2.91	0.5723
Household Net Worth	4	78.57	<.0001
US Region of residence	4	709.07	<.0001
Insurance plan	5	260.23	<.0001
Age	1	129.44	<.0001
Obesity	1	5.91	0.015
Hypertension	1	1.7	0.1924
Hyperlipidemia	1	1.38	0.2406
Amount of time the person was covered under the plan (years)	1	2989.27	<.0001

Parameter estimates						
Parameter	Estimate	Std error of estimate	Exponentiated estimate	95% lower confidence limit for exponentiated estimate	95% upper confidence limit for exponentiated estimate	p-value
Intercept	-3.0597	0.1025	0.0469	0.03836	0.05734	<.0001
Year	0.016	0.032	1.01618	0.95434	1.08202	0.6164
Year-squared	-0.0027	0.0031	0.99728	0.99118	1.00343	0.3853
Open-angle glaucoma	0.304	0.0919	1.35531	1.13193	1.62278	0.0009
Year*Open-angle glaucoma	0.1193	0.0384	1.12672	1.04496	1.21489	0.0019
Year-squared*Open-angle glaucoma	-0.0086	0.0038	0.99139	0.98403	0.99881	0.023
Glaucoma suspect	0.3235	0.0777	1.38197	1.18675	1.6093	<.0001
Year*Glaucoma suspect	0.037	0.0321	1.03769	0.97442	1.10507	0.2491
Year-squared*Glaucoma suspect	-0.0039	0.0031	0.99607	0.98998	1.00219	0.2079
Macular Edema	0.2059	0.3385	1.22868	0.63282	2.38558	0.543
Year*Macular Edema	0.0037	0.1404	1.00375	0.76226	1.32174	0.9787

Year-squared*Macular Edema	-0.0011	0.0136	0.99895	0.9727	1.0259	0.9381
Exudative Macular degeneration	0.1713	0.3584	1.1868	0.58786	2.39597	0.6328
Year*Exudative Macular degeneration	0.0665	0.1467	1.06879	0.80167	1.42491	0.6503
Year-squared*Exudative Macular degeneration	-0.0043	0.0144	0.99567	0.96794	1.0242	0.7634
Other retina conditions	0.5165	0.0745	1.67619	1.44848	1.93969	<.0001
Year*Other retinal conditions	0.1708	0.0306	1.18631	1.1173	1.25958	<.0001
Year-squared*Other retinal conditions	-0.0155	0.003	0.98463	0.97891	0.99038	<.0001
Other nerve conditions	0.4731	0.0647	1.60492	1.4138	1.82188	<.0001
Year*Other nerve conditions	-0.1482	0.0267	0.86222	0.81823	0.90857	<.0001
Year-squared*Other nerve conditions	0.013	0.0026	1.01308	1.00788	1.01831	<.0001
Non-Proliferative Diabetic Retinopathy	0.7485	0.0322	2.11384	1.98441	2.25171	<.0001
Proliferative Diabetic Retinopathy	0.0006	0.1362	1.00062	0.76617	1.30682	0.9964
Race: Blacks (vs Whites)	-0.0577	0.0247	0.94395	0.8993	0.99082	0.0196
Race: Latinos (vs Whites)	0.047	0.0269	1.04817	0.99442	1.10482	0.0798
Race: Asians (vs Whites)	0.1212	0.0399	1.12885	1.04384	1.22078	0.0024
Race: Other races (vs Whites)	-0.0216	0.0633	0.97861	0.86441	1.1079	0.7327
Insurance type: Commercial & Medicaid (vs Commercial only)	-0.1777	0.0555	0.83723	0.75096	0.93341	0.0014
Insurance type: Commercial & Medicare (vs Commercial only)	0.0424	0.0335	1.04332	0.97695	1.11421	0.206
Sex: Females (vs Males)	0.0309	0.0111	1.03136	1.00907	1.05413	0.0056
Education: High school diploma (vs less than High School)	-0.0466	0.049	0.9545	0.86706	1.05077	0.3422
Education: Some college (vs less than High School)	-0.0598	0.0497	0.94198	0.8545	1.03841	0.2294
Education: College diploma (vs less than High School)	-0.041	0.0513	0.95984	0.8681	1.06127	0.4239
Education: Advanced degree (vs less than High School)	-0.0793	0.1516	0.92379	0.68635	1.24337	0.601
Household Net Worth: 25K-75K (vs <25K)	0.0075	0.0276	1.00757	0.95452	1.06356	0.7847
Household Net Worth: 75K-150K (vs <25K)	0.0317	0.0237	1.03216	0.9854	1.08114	0.1809
Household Net Worth: 150K-500K (vs <25K)	0.1253	0.0212	1.13343	1.08723	1.1816	<.0001
Household Net Worth: >500K (vs <25K)	0.1665	0.0257	1.1812	1.12318	1.24221	<.0001
US Region of residence: South-East (vs North-East)	0.0974	0.0155	1.10228	1.06936	1.13621	<.0001
US Region of residence: Mid-West (vs North-East)	-0.2585	0.0163	0.77224	0.74791	0.79735	<.0001
US Region of residence: West (vs North-East)	-0.115	0.0236	0.89139	0.85116	0.93353	<.0001
US Region of residence: Other regions (vs North-East)	-0.2324	0.218	0.79265	0.51708	1.21509	0.2864
Insurance Plan: PPO (vs HMO)	0.1699	0.0202	1.18523	1.13922	1.23309	<.0001
Insurance Plan: EPO (vs HMO)	0.1466	0.0219	1.15794	1.10932	1.20869	<.0001
Insurance Plan: POS (vs HMO)	0.2389	0.016	1.26986	1.23073	1.31022	<.0001
Insurance Plan: IND (vs HMO)	0.103	0.0345	1.10844	1.03597	1.18598	0.0028
Insurance Plan: Other plans (vs HMO)	-0.2898	0.0988	0.74842	0.61667	0.90832	0.0034
Age	-0.008	0.0007	0.99202	0.99064	0.99339	<.0001

Obesity	-0.0413	0.0171	0.95955	0.92793	0.99225	0.0157
Hypertension	0.0166	0.0128	1.01678	0.99162	1.04258	0.193
Hyperlipidemia	0.0147	0.0126	1.01483	0.99015	1.04012	0.2414
Amount of time the person was covered under the plan (years)	1.3173	0.0277	3.73323	3.53626	3.94117	<.0001

HMO = health maintenance organization

IND = indemnity plan

PPO = preferred provider organization

EPO = exclusive provider organization

The fitted model coefficients reported here were used to predict odds (or probabilities) of the outcome for different groups of enrollees in different years. Various comparisons were then made between the estimated odds and these comparative odds were reported in the paper. While estimating these odds, all other predictors were assumed to be at their average value or reference value.

Table 14: Logistic for fundus photography testing for those under the exclusive care of ophthalmologists

Model Information	
Distribution	Binomial
Link Function	Logit
Number of Observations Used	1546292
Number of Events	168891
Number of Trials	1546292
Missing Values	153

Response Profile		
Ordered Value	Dependent variable	Total Frequency
1	1	168891
2	0	1377401

PROC GENMOD is modeling the probability that dependent variable='1'.

Generalized Estimating Equations Model Information	
Correlation Structure	8-Dependent
Within-Subject Effect	year (9 levels)
Generalized Estimating Equations Fit Criteria	
Quasi-likelihood Information Criterion	1007817.635

Score Statistics For Type 3 Generalized Estimating Equations Analysis			
Source	Degrees of Freedom	Chi-Square	p-value
Year	1	22.36	<.0001
Year-squared	1	18.5	<.0001
Open-angle glaucoma	1	330.76	<.0001
Year*Open-angle glaucoma	1	5.91	0.015
Year-squared*Open-angle glaucoma	1	0	0.9602
Glaucoma suspect	1	357.31	<.0001
Year*Glaucoma suspect	1	2.44	0.1184
Year-squared*Glaucoma suspect	1	1.96	0.1615
Macular Edema	1	806.58	<.0001
Year*Macular Edema	1	88.31	<.0001
Year-squared*Macular Edema	1	7.29	0.0069

Exudative Macular degeneration	1	1120.54	<.0001
Year*Exudative Macular degeneration	1	52.74	<.0001
Year-squared*Exudative Macular degeneration	1	0.01	0.9209
Other retina conditions	1	1129.87	<.0001
Year*Other retinal conditions	1	47.05	<.0001
Year-squared*Other retinal conditions	1	17.2	<.0001
Other nerve conditions	1	6.1	0.0135
Year*Other nerve conditions	1	4.1	0.043
Year-squared*Other nerve conditions	1	4.73	0.0297
Non-Proliferative Diabetic Retinopathy	1	2758.58	<.0001
Proliferative Diabetic Retinopathy	1	666.67	<.0001
Race	4	158.63	<.0001
Insurance type	2	186.8	<.0001
Sex	1	0.37	0.5424
Education	4	157.65	<.0001
Household Net Worth	4	17.62	0.0015
US Region of residence	4	2670.46	<.0001
Insurance plan	5	299.36	<.0001
Age	1	274.69	<.0001
Obesity	1	1.55	0.2134
Hypertension	1	28.42	<.0001
Hyperlipidemia	1	13.23	0.0003
Amount of time the person was covered under the plan (years)	1	8149.86	<.0001

Parameter estimates						
Parameter	Estimate	Std error of estimate	Exponentiated estimate	95% lower confidence limit for exponentiated estimate	95% upper confidence limit for exponentiated estimate	p-value
Intercept	-3.5083	0.0465	0.02995	0.02734	0.0328	<.0001
Year	-0.0621	0.0127	0.93978	0.91675	0.9634	<.0001
Year-squared	0.006	0.0013	1.00598	1.00333	1.0086	<.0001
Open-angle glaucoma	0.5471	0.0285	1.72818	1.63438	1.8274	<.0001
Year*Open-angle glaucoma	0.0333	0.0133	1.03384	1.00722	1.0612	0.0124
Year-squared*Open-angle glaucoma	0.0001	0.0014	1.00007	0.9973	1.0029	0.9593
Glaucoma suspect	0.5605	0.028	1.75158	1.65796	1.8505	<.0001
Year*Glaucoma suspect	-0.0212	0.0131	0.97899	0.95409	1.0045	0.1061
Year-squared*Glaucoma suspect	0.002	0.0014	1.00201	0.99928	1.0047	0.15
Macular Edema	1.9639	0.0509	7.12706	6.45033	7.8748	<.0001

Year*Macular Edema	-0.2234	0.0229	0.79983	0.76466	0.8366	<.0001
Year-squared*Macular Edema	0.0065	0.0024	1.00647	1.00182	1.0111	0.0063
Exudative Macular degeneration	2.2875	0.0487	9.85041	8.95428	10.8362	<.0001
Year*Exudative Macular degeneration	-0.1659	0.0228	0.84715	0.81019	0.8858	<.0001
Year-squared*Exudative Macular degeneration	-0.0002	0.0024	0.99976	0.99498	1.0046	0.9216
Other retina conditions	0.9007	0.0246	2.46139	2.34546	2.583	<.0001
Year*Other retinal conditions	-0.0818	0.0115	0.92142	0.90079	0.9425	<.0001
Year-squared*Other retinal conditions	0.0052	0.0012	1.00523	1.00282	1.0076	<.0001
Other nerve conditions	0.0622	0.0241	1.0642	1.01513	1.1157	0.0098
Year*Other nerve conditions	-0.0236	0.0113	0.97663	0.95529	0.9984	0.0359
Year-squared*Other nerve conditions	0.0027	0.0012	1.00267	1.00033	1.005	0.0254
Non-Proliferative Diabetic Retinopathy	0.7674	0.0121	2.15419	2.10352	2.2061	<.0001
Proliferative Diabetic Retinopathy	0.5187	0.0185	1.67977	1.61988	1.7419	<.0001
Race: Blacks (vs Whites)	0.1324	0.0126	1.14161	1.11376	1.1702	<.0001
Race: Latinos (vs Whites)	0.0687	0.013	1.07107	1.04403	1.0988	<.0001
Race: Asians (vs Whites)	0.1178	0.0174	1.12502	1.08726	1.1641	<.0001
Race: Other races (vs Whites)	0.0834	0.0319	1.08702	1.02119	1.1571	0.0089
Insurance type: Commercial & Medicaid (vs Commercial only)	-0.3677	0.0385	0.69233	0.642	0.7466	<.0001
Insurance type: Commercial & Medicare (vs Commercial only)	-0.1797	0.0172	0.83549	0.80781	0.8641	<.0001
Sex: Females (vs Males)	-0.004	0.0065	0.99605	0.98345	1.0088	0.5427
Education: High school diploma (vs less than High School)	0.0613	0.0254	1.06319	1.01163	1.1174	0.0157
Education: Some college (vs less than High School)	0.0819	0.0257	1.08533	1.032	1.1414	0.0014
Education: College diploma (vs less than High School)	-0.0229	0.0266	0.97741	0.92784	1.0296	0.3895
Education: Advanced degree (vs less than High School)	-0.1492	0.0605	0.86137	0.76507	0.9698	0.0136
Household Net Worth: 25K-75K (vs <25K)	-0.0451	0.017	0.95587	0.92454	0.9883	0.008
Household Net Worth: 75K-150K (vs <25K)	-0.0376	0.0147	0.96311	0.93568	0.9913	0.0108
Household Net Worth: 150K-500K (vs <25K)	-0.0303	0.0129	0.97019	0.94605	0.9949	0.0186
Household Net Worth: >500K (vs <25K)	-0.0053	0.0146	0.99473	0.9666	1.0237	0.7181
US Region of residence: South-East (vs North-East)	0.0076	0.0089	1.00766	0.99016	1.0255	0.3932
US Region of residence: Mid-West (vs North-East)	-0.3452	0.0102	0.70807	0.69402	0.7224	<.0001
US Region of residence: West (vs North-East)	-0.3406	0.0121	0.71131	0.69466	0.7284	<.0001
US Region of residence: Other regions (vs North-East)	-0.1011	0.1184	0.90384	0.71671	1.1398	0.3929
Insurance Plan: PPO (vs HMO)	-0.0208	0.0125	0.97944	0.95582	1.0036	0.0952
Insurance Plan: EPO (vs HMO)	0.0608	0.0137	1.06274	1.0345	1.0917	<.0001
Insurance Plan: POS (vs HMO)	0.0422	0.0107	1.04306	1.02145	1.0651	<.0001
Insurance Plan: IND (vs HMO)	-0.1308	0.0161	0.87742	0.85022	0.9055	<.0001
Insurance Plan: Other plans (vs HMO)	-0.5811	0.0603	0.55928	0.49698	0.6294	<.0001

Age	-0.0063	0.0004	0.99374	0.993	0.9945	<.0001
Obesity	-0.0123	0.0099	0.98774	0.96869	1.0072	0.2147
Hypertension	0.0419	0.0079	1.04277	1.02677	1.059	<.0001
Hyperlipidemia	0.0283	0.0078	1.02872	1.01309	1.0446	0.0003
Amount of time the person was covered under the plan (years)	1.2586	0.0168	3.52054	3.40645	3.6384	<.0001

HMO = health maintenance organization

IND = indemnity plan

PPO = preferred provider organization

EPO = exclusive provider organization

The fitted model coefficients reported here were used to predict odds (or probabilities) of the outcome for different groups of enrollees in different years. Various comparisons were then made between the estimated odds and these comparative odds were reported in the paper. While estimating these odds, all other predictors were assumed to be at their average value or reference value.

Table 15: Logistic for fundus photography testing for those under the care of both provider types

Model Information	
Distribution	Binomial
Link Function	Logit
Number of Observations Used	467803
Number of Events	73741
Number of Trials	467803
Missing Values	43

Response Profile		
Ordered Value	Dependent variable	Total Frequency
1	1	73741
2	0	394062

PROC GENMOD is modeling the probability that dependent variable='1'.

Generalized Estimating Equations Model Information	
Correlation Structure	8-Dependent
Within-Subject Effect	year (9 levels)
Generalized Estimating Equations Fit Criteria	
Quasi-likelihood Information Criterion	386027.3452

Score Statistics For Type 3 Generalized Estimating Equations Analysis			
Source	Degrees of Freedom	Chi-Square	p-value
Year	1	7.21	0.0073
Year-squared	1	7.42	0.0065
Open-angle glaucoma	1	13.91	0.0002
Year*Open-angle glaucoma	1	21.19	<.0001
Year-squared*Open-angle glaucoma	1	8.37	0.0038
Glaucoma suspect	1	36.37	<.0001
Year*Glaucoma suspect	1	0.01	0.9318
Year-squared*Glaucoma suspect	1	0.01	0.9036
Macular Edema	1	348.74	<.0001
Year*Macular Edema	1	69.43	<.0001
Year-squared*Macular Edema	1	13.92	0.0002
Exudative Macular degeneration	1	498.65	<.0001

Year*Exudative Macular degeneration	1	47.56	<.0001
Year-squared*Exudative Macular degeneration	1	4.1	0.0429
Other retina conditions	1	340.96	<.0001
Year*Other retinal conditions	1	0.07	0.7972
Year-squared*Other retinal conditions	1	1.39	0.2384
Other nerve conditions	1	3.98	0.046
Year*Other nerve conditions	1	2.67	0.102
Year-squared*Other nerve conditions	1	2.07	0.1499
Non-Proliferative Diabetic Retinopathy	1	982.47	<.0001
Proliferative Diabetic Retinopathy	1	200.74	<.0001
Race	4	4.44	0.3499
Insurance type	2	34.22	<.0001
Sex	1	0.03	0.8641
Education	4	60.64	<.0001
Household Net Worth	4	27.38	<.0001
US Region of residence	4	898.68	<.0001
Insurance plan	5	156.85	<.0001
Age	1	156.43	<.0001
Obesity	1	12.02	0.0005
Hypertension	1	13.46	0.0002
Hyperlipidemia	1	0.09	0.7647
Amount of time the person was covered under the plan (years)	1	2181.11	<.0001

Parameter estimates						
Parameter	Estimate	Std error of estimate	Exponentiated estimate	95% lower confidence limit for exponentiated estimate	95% upper confidence limit for exponentiated estimate	p-value
Intercept	-2.9936	0.0787	0.0501	0.04294	0.05846	<.0001
Year	-0.0571	0.0206	0.94447	0.90714	0.98334	0.0055
Year-squared	0.006	0.0021	1.00602	1.0018	1.01025	0.0051
Open-angle glaucoma	0.1876	0.0487	1.2064	1.09663	1.32715	0.0001
Year*Open-angle glaucoma	0.1028	0.0218	1.10832	1.06189	1.15677	<.0001
Year-squared*Open-angle glaucoma	-0.0067	0.0023	0.99332	0.98892	0.99775	0.0032
Glaucoma suspect	0.3051	0.0485	1.35679	1.23371	1.49215	<.0001
Year*Glaucoma suspect	-0.0019	0.0218	0.99808	0.95643	1.04155	0.9297
Year-squared*Glaucoma suspect	0.0003	0.0022	1.00028	0.99589	1.00469	0.9011
Macular Edema	1.9788	0.085	7.23436	6.12368	8.54649	<.0001
Year*Macular Edema	-0.3057	0.0362	0.7366	0.68619	0.79072	<.0001
Year-squared*Macular Edema	0.0134	0.0036	1.01353	1.00638	1.02073	0.0002

Exudative Macular degeneration	2.1213	0.0745	8.34232	7.20907	9.65372	<.0001
Year*Exudative Macular degeneration	-0.2296	0.0335	0.79481	0.74433	0.84872	<.0001
Year-squared*Exudative Macular degeneration	0.007	0.0035	1.00704	1.00014	1.01398	0.0455
Other retina conditions	0.8408	0.0426	2.31827	2.13265	2.52005	<.0001
Year*Other retinal conditions	-0.0051	0.0191	0.99496	0.9584	1.03291	0.7912
Year-squared*Other retinal conditions	-0.0024	0.002	0.99761	0.99374	1.00149	0.2264
Other nerve conditions	0.0832	0.0402	1.08674	1.00449	1.17571	0.0383
Year*Other nerve conditions	-0.0303	0.0179	0.97019	0.93669	1.00489	0.0914
Year-squared*Other nerve conditions	0.0027	0.0019	1.00274	0.99911	1.00638	0.1399
Non-Proliferative Diabetic Retinopathy	0.6829	0.0189	1.97962	1.90775	2.05419	<.0001
Proliferative Diabetic Retinopathy	0.4233	0.0285	1.52695	1.44399	1.61468	<.0001
Race: Blacks (vs Whites)	0.028	0.0222	1.02837	0.98453	1.07416	0.2082
Race: Latinos (vs Whites)	0.0018	0.0244	1.00185	0.95514	1.05084	0.9396
Race: Asians (vs Whites)	0.0067	0.035	1.00671	0.94005	1.07808	0.8484
Race: Other races (vs Whites)	-0.0903	0.0558	0.91364	0.81905	1.01916	0.1053
Insurance type: Commercial & Medicaid (vs Commercial only)	-0.2893	0.0527	0.74881	0.67536	0.83024	<.0001
Insurance type: Commercial & Medicare (vs Commercial only)	-0.043	0.0256	0.95791	0.9111	1.00713	0.0925
Sex: Females (vs Males)	-0.0018	0.0103	0.99824	0.97828	1.01861	0.8643
Education: High school diploma (vs less than High School)	0.0125	0.0449	1.01262	0.92727	1.10582	0.7802
Education: Some college (vs less than High School)	-0.0365	0.0455	0.96418	0.88195	1.05407	0.4225
Education: College diploma (vs less than High School)	-0.1169	0.0469	0.88963	0.81143	0.97538	0.0127
Education: Advanced degree (vs less than High School)	0.0327	0.1375	1.03319	0.78912	1.35276	0.8123
Household Net Worth: 25K-75K (vs <25K)	-0.0068	0.0261	0.99325	0.94376	1.04532	0.7949
Household Net Worth: 75K-150K (vs <25K)	-0.0239	0.0227	0.97641	0.93388	1.02086	0.2932
Household Net Worth: 150K-500K (vs <25K)	0.0381	0.0199	1.03883	0.99906	1.08019	0.0558
Household Net Worth: >500K (vs <25K)	0.0723	0.0234	1.07493	1.0267	1.12542	0.002
US Region of residence: South-East (vs North-East)	0.0462	0.0149	1.04733	1.01717	1.07839	0.0019
US Region of residence: Mid-West (vs North-East)	-0.3044	0.0156	0.73759	0.71536	0.76052	<.0001
US Region of residence: West (vs North-East)	-0.1966	0.0216	0.82152	0.78748	0.85704	<.0001
US Region of residence: Other regions (vs North-East)	-0.3629	0.2685	0.69563	0.41099	1.1774	0.1765
Insurance Plan: PPO (vs HMO)	0.1413	0.0195	1.15179	1.10867	1.19659	<.0001
Insurance Plan: EPO (vs HMO)	0.1092	0.0211	1.11542	1.07021	1.16254	<.0001
Insurance Plan: POS (vs HMO)	0.1782	0.0157	1.19501	1.1589	1.23224	<.0001
Insurance Plan: IND (vs HMO)	0.0624	0.0237	1.06435	1.01611	1.11489	0.0084
Insurance Plan: Other plans (vs HMO)	-0.0995	0.0689	0.90527	0.79084	1.03626	0.1489
Age	-0.0075	0.0006	0.9925	0.99132	0.99368	<.0001
Obesity	-0.0513	0.0149	0.94998	0.92259	0.97818	0.0006
Hypertension	0.0464	0.0127	1.04747	1.02173	1.07387	0.0003

Hyperlipidemia	-0.0038	0.0125	0.99626	0.97206	1.02106	0.7649
Amount of time the person was covered under the plan (years)	1.1966	0.0302	3.30883	3.11884	3.51039	<.0001

HMO = health maintenance organization

IND = indemnity plan

PPO = preferred provider organization

EPO = exclusive provider organization

The fitted model coefficients reported here were used to predict odds (or probabilities) of the outcome for different groups of enrollees in different years. Various comparisons were then made between the estimated odds and these comparative odds were reported in the paper. While estimating these odds, all other predictors were assumed to be at their average value or reference value.

Table 16: Logistic for fundus photography testing, including all provider types

Model Information	
Distribution	Binomial
Link Function	Logit
Number of Observations Used	2364531
Number of Events	303455
Number of Trials	2364531
Missing Values	236

Response Profile		
Ordered Value	Dependent variable	Total Frequency
1	1	303455
2	0	2061076

PROC GENMOD is modeling the probability that dependent variable='1'.

Generalized Estimating Equations Model Information	
Correlation Structure	8-Dependent
Within-Subject Effect	year (9 levels)
Generalized Estimating Equations Fit Criteria	
Quasi-likelihood Information Criterion	1710081.79

Score Statistics For Type 3 Generalized Estimating Equations Analysis			
Source	Degrees of Freedom	Chi-Square	p-value
Year	1	10.18	0.0014
Year-squared	1	9.39	0.0022
Open-angle glaucoma	1	382.25	<.0001
Year*Open-angle glaucoma	1	8.77	0.0031
Year-squared*Open-angle glaucoma	1	0.1	0.7478
Glaucoma suspect	1	395.05	<.0001
Year*Glaucoma suspect	1	3.56	0.0592
Year-squared*Glaucoma suspect	1	1.39	0.2391
Macular Edema	1	1181.59	<.0001
Year*Macular Edema	1	189.14	<.0001
Year-squared*Macular Edema	1	29.31	<.0001
Exudative Macular degeneration	1	1651.07	<.0001
Year*Exudative Macular degeneration	1	137.1	<.0001

Year-squared*Exudative Macular degeneration	1	6.15	0.0132
Other retina conditions	1	1538.46	<.0001
Year*Other retinal conditions	1	20.82	<.0001
Year-squared*Other retinal conditions	1	5.29	0.0214
Other nerve conditions	1	36.35	<.0001
Year*Other nerve conditions	1	22.84	<.0001
Year-squared*Other nerve conditions	1	19.61	<.0001
Non-Proliferative Diabetic Retinopathy	1	4174.5	<.0001
Proliferative Diabetic Retinopathy	1	862.14	<.0001
Race	4	123.54	<.0001
Insurance type	2	192.48	<.0001
Sex	1	1.49	0.2216
Education	4	142.02	<.0001
Household Net Worth	4	65.81	<.0001
US Region of residence	4	4181.82	<.0001
Insurance plan	5	527.78	<.0001
Age	1	549.16	<.0001
Obesity	1	15.79	<.0001
Hypertension	1	39.66	<.0001
Hyperlipidemia	1	10.18	0.0014
Amount of time the person was covered under the plan (years)	1	13351.3	<.0001
Eye-care	3	13545.5	<.0001

Parameter estimates						
Parameter	Estimate	Std error of estimate	Exponentiated estimate	95% lower confidence limit for exponentiated estimate	95% upper confidence limit for exponentiated estimate	p-value
Intercept	-3.5979	0.0368	0.02738	0.02548	0.0294	<.0001
Year	-0.0334	0.0101	0.96718	0.94823	0.9865	0.0009
Year-squared	0.0033	0.0011	1.00333	1.00126	1.0054	0.0016
Open-angle glaucoma	0.4886	0.0237	1.63002	1.55604	1.7075	<.0001
Year*Open-angle glaucoma	0.0328	0.0108	1.03337	1.01176	1.0554	0.0023
Year-squared*Open-angle glaucoma	-0.0004	0.0011	0.99963	0.99742	1.0018	0.7422
Glaucoma suspect	0.4836	0.0231	1.62196	1.55021	1.697	<.0001
Year*Glaucoma suspect	-0.0205	0.0105	0.97973	0.95982	1.0001	0.0507
Year-squared*Glaucoma suspect	0.0013	0.0011	1.00132	0.99919	1.0035	0.2257
Macular Edema	1.9898	0.043	7.31373	6.72198	7.9576	<.0001
Year*Macular Edema	-0.2721	0.019	0.76179	0.73392	0.7907	<.0001
Year-squared*Macular Edema	0.0106	0.0019	1.01068	1.00684	1.0145	<.0001
Exudative Macular degeneration	2.2715	0.0405	9.69386	8.95474	10.494	<.0001

Year*Exudative Macular degeneration	-0.219	0.0186	0.80331	0.77457	0.8331	<.0001
Year-squared*Exudative Macular degeneration	0.0049	0.002	1.00486	1.00098	1.0088	0.014
Other retina conditions	0.8709	0.0205	2.38909	2.29513	2.4869	<.0001
Year*Other retinal conditions	-0.0439	0.0093	0.95705	0.93975	0.9747	<.0001
Year-squared*Other retinal conditions	0.0023	0.001	1.00229	1.00039	1.0042	0.0181
Other nerve conditions	0.1241	0.0196	1.1321	1.08951	1.1764	<.0001
Year*Other nerve conditions	-0.0441	0.0089	0.95682	0.9403	0.9736	<.0001
Year-squared*Other nerve conditions	0.0042	0.0009	1.00423	1.00241	1.006	<.0001
Non-Proliferative Diabetic Retinopathy	0.7478	0.0097	2.1124	2.07254	2.153	<.0001
Proliferative Diabetic Retinopathy	0.4828	0.0153	1.62055	1.57263	1.6699	<.0001
Race: Blacks (vs Whites)	0.0857	0.01	1.08944	1.06823	1.1111	<.0001
Race: Latinos (vs Whites)	0.056	0.0105	1.05762	1.03599	1.0797	<.0001
Race: Asians (vs Whites)	0.0936	0.0144	1.09815	1.0675	1.1297	<.0001
Race: Other races (vs Whites)	0.0281	0.0253	1.0285	0.97866	1.0809	0.2676
Insurance type: Commercial & Medicaid (vs Commercial only)	-0.3245	0.0273	0.7229	0.68526	0.7626	<.0001
Insurance type: Commercial & Medicare (vs Commercial only)	-0.0981	0.0131	0.90653	0.88359	0.9301	<.0001
Sex: Females (vs Males)	0.006	0.0049	1.00603	0.99637	1.0158	0.2221
Education: High school diploma (vs less than High School)	0.0299	0.02	1.03038	0.99068	1.0717	0.1355
Education: Some college (vs less than High School)	0.03	0.0203	1.0305	0.99028	1.0724	0.1391
Education: College diploma (vs less than High School)	-0.0462	0.021	0.95486	0.91641	0.9949	0.0276
Education: Advanced degree (vs less than High School)	-0.1367	0.0516	0.87226	0.78832	0.9651	0.0081
Household Net Worth: 25K-75K (vs <25K)	-0.0247	0.0127	0.97558	0.95166	1.0001	0.051
Household Net Worth: 75K-150K (vs <25K)	-0.0174	0.011	0.98279	0.96189	1.0041	0.1136
Household Net Worth: 150K-500K (vs <25K)	0.0234	0.0096	1.02371	1.00457	1.0432	0.015
Household Net Worth: >500K (vs <25K)	0.0487	0.0112	1.0499	1.02716	1.0731	<.0001
US Region of residence: South-East (vs North-East)	0.0334	0.0068	1.03396	1.02019	1.0479	<.0001
US Region of residence: Mid-West (vs North-East)	-0.3172	0.0075	0.72817	0.71749	0.739	<.0001
US Region of residence: West (vs North-East)	-0.2772	0.0096	0.75792	0.74386	0.7722	<.0001
US Region of residence: Other regions (vs North-East)	-0.1549	0.0967	0.85653	0.70867	1.0352	0.1092
Insurance Plan: PPO (vs HMO)	0.06	0.0093	1.06183	1.04266	1.0814	<.0001
Insurance Plan: EPO (vs HMO)	0.1042	0.0102	1.10981	1.08786	1.1322	<.0001
Insurance Plan: POS (vs HMO)	0.1239	0.0077	1.13196	1.1149	1.1493	<.0001
Insurance Plan: IND (vs HMO)	-0.0331	0.0123	0.96746	0.94451	0.991	0.0069
Insurance Plan: Other plans (vs HMO)	-0.3619	0.0411	0.69632	0.64249	0.7547	<.0001
Age	-0.0068	0.0003	0.99321	0.99265	0.9938	<.0001
Obesity	-0.0294	0.0074	0.97102	0.95695	0.9853	<.0001
Hypertension	0.0371	0.0059	1.03781	1.02586	1.0499	<.0001

Hyperlipidemia	0.0186	0.0058	1.01878	1.00717	1.0305	0.0015
Amount of time the person was covered under the plan (years)	1.256	0.0129	3.51144	3.42353	3.6016	<.0001
Eye-care: Visited unspecified eye provider (vs visited ophthalmologists only)	-0.4301	0.0436	0.65048	0.59725	0.7084	<.0001
Eye-care: Visited optometrists only (vs visited ophthalmologists only)	0.8147	0.0067	2.25847	2.22907	2.2883	<.0001
Eye-care: Visited both (vs visited ophthalmologists only)	0.3951	0.0061	1.48456	1.46699	1.5023	<.0001

HMO = health maintenance organization

IND = indemnity plan

PPO = preferred provider organization

EPO = exclusive provider organization

The fitted model coefficients reported here were used to predict odds (or probabilities) of the outcome for different groups of enrollees in different years. Various comparisons were then made between the estimated odds and these comparative odds were reported in the paper. While estimating these odds, all other predictors were assumed to be at their average value or reference value.

Table 17: Logistic for fundus photography testing including all provider types, but only in open-angle glaucoma patients

Model Information	
Distribution	Binomial
Link Function	Logit
Number of Observations Used	463782
Number of Events	66680
Number of Trials	463782
Missing Values	46

Response Profile		
Ordered Value	Dependent variable	Total Frequency
1	1	66680
2	0	397102

PROC GENMOD is modeling the probability that dependent variable='1'.

Generalized Estimating Equations Model Information	
Correlation Structure	8-Dependent
Within-Subject Effect	year (9 levels)
Generalized Estimating Equations Fit Criteria	
Quasi-likelihood Information Criterion	363747.6116

Score Statistics For Type 3 Generalized Estimating Equations Analysis			
Source	Degrees of Freedom	Chi-Square	p-value
Year	1	0.82	0.3638
Year-squared	1	7.29	0.0069
Macular Edema	1	148.25	<.0001
Year*Macular Edema	1	33.98	<.0001
Year-squared*Macular Edema	1	8.25	0.0041
Exudative Macular degeneration	1	155.68	<.0001
Year*Exudative Macular degeneration	1	14.1	0.0002
Year-squared*Exudative Macular degeneration	1	0.7	0.4013
Other retina conditions	1	343.67	<.0001
Year*Other retinal conditions	1	20.53	<.0001
Year-squared*Other retinal conditions	1	6.41	0.0113
Other nerve conditions	1	19.09	<.0001

Year*Other nerve conditions	1	1.99	0.1584
Year-squared*Other nerve conditions	1	1.39	0.2382
Non-Proliferative Diabetic Retinopathy	1	515.01	<.0001
Proliferative Diabetic Retinopathy	1	113.43	<.0001
Race	4	50.14	<.0001
Insurance type	2	54.17	<.0001
Sex	1	14.98	0.0001
Education	4	34.07	<.0001
Household Net Worth	4	38.36	<.0001
US Region of residence	4	1167.34	<.0001
Insurance plan	5	187.62	<.0001
Age	1	176.96	<.0001
Obesity	1	8.42	0.0037
Hypertension	1	0.06	0.7998
Hyperlipidemia	1	33.99	<.0001
Amount of time the person was covered under the plan (years)	1	3631.56	<.0001
Eye-care	3	1288.8	<.0001

Parameter estimates						
Parameter	Estimate	Std error of estimate	Exponentiated estimate	95% lower confidence limit for exponentiated estimate	95% upper confidence limit for exponentiated estimate	p-value
Intercept	-3.1974	0.0655	0.04087	0.03594	0.04647	<.0001
Year	0.0085	0.0091	1.00853	0.99072	1.02666	0.3501
Year-squared	0.0028	0.001	1.00276	1.00081	1.00471	0.0055
Macular Edema	1.8435	0.1213	6.31876	4.98145	8.01508	<.0001
Year*Macular Edema	-0.3105	0.0518	0.73309	0.66237	0.81136	<.0001
Year-squared*Macular Edema	0.0149	0.0052	1.01498	1.00477	1.0253	0.004
Exudative Macular degeneration	1.8434	0.1193	6.31793	5.00071	7.98212	<.0001
Year*Exudative Macular degeneration	-0.1967	0.0523	0.82142	0.74143	0.91004	0.0002
Year-squared*Exudative Macular degeneration	0.0045	0.0054	1.00448	0.99396	1.01512	0.4052
Other retina conditions	0.872	0.0403	2.39175	2.21028	2.58812	<.0001
Year*Other retinal conditions	-0.0867	0.0184	0.91691	0.88436	0.95066	<.0001
Year-squared*Other retinal conditions	0.005	0.0019	1.00501	1.00122	1.00882	0.0096

Other nerve conditions	0.1668	0.0364	1.18149	1.10016	1.26883	<.0001
Year*Other nerve conditions	-0.0241	0.0167	0.97619	0.94484	1.00858	0.1478
Year-squared*Other nerve conditions	0.0021	0.0017	1.00209	0.99868	1.00551	0.2298
Non-Proliferative Diabetic Retinopathy	0.5383	0.0209	1.71304	1.64424	1.78472	<.0001
Proliferative Diabetic Retinopathy	0.3718	0.0329	1.45037	1.35985	1.54692	<.0001
Race: Blacks (vs Whites)	0.0886	0.0181	1.09266	1.05465	1.13204	<.0001
Race: Latinos (vs Whites)	0.0427	0.0236	1.04365	0.99644	1.09311	0.0704
Race: Asians (vs Whites)	0.1659	0.0316	1.18048	1.10966	1.25582	<.0001
Race: Other races (vs Whites)	-0.0772	0.0606	0.92569	0.82207	1.04237	0.2024
Insurance type: Commercial & Medicaid (vs Commercial only)	-0.3985	0.0608	0.67135	0.59589	0.75636	<.0001
Insurance type: Commercial & Medicare (vs Commercial only)	0.002	0.0261	1.00196	0.95201	1.05454	0.9401
Sex: Females (vs Males)	0.0422	0.0109	1.04306	1.021	1.0656	0.0001
Education: High school diploma (vs less than High School)	0.0459	0.039	1.04696	0.97	1.13002	0.2388
Education: Some college (vs less than High School)	0.0489	0.0398	1.05015	0.97144	1.13525	0.2183
Education: College diploma (vs less than High School)	-0.0375	0.0416	0.96315	0.88765	1.04507	0.3673
Education: Advanced degree (vs less than High School)	-0.1367	0.1189	0.87219	0.69094	1.10099	0.2499
Household Net Worth: 25K-75K (vs <25K)	-0.0194	0.0276	0.98079	0.92915	1.0353	0.4822
Household Net Worth: 75K-150K (vs <25K)	0.0316	0.0237	1.03206	0.98517	1.08118	0.1835
Household Net Worth: 150K-500K (vs <25K)	0.0581	0.0209	1.05985	1.01736	1.10413	0.0054
Household Net Worth: >500K (vs <25K)	0.1191	0.0245	1.12653	1.07374	1.18191	<.0001
US Region of residence: South-East (vs North-East)	-0.0204	0.0153	0.97985	0.95091	1.00967	0.1833
US Region of residence: Mid-West (vs North-East)	-0.4081	0.0172	0.66489	0.64282	0.68772	<.0001
US Region of residence: West (vs North-East)	-0.4105	0.0215	0.66331	0.63598	0.69181	<.0001
US Region of residence: Other regions (vs North-East)	-0.4113	0.2616	0.66281	0.3969	1.10687	0.116
Insurance Plan: PPO (vs HMO)	0.0716	0.0211	1.07418	1.03074	1.11945	0.0007
Insurance Plan: EPO (vs HMO)	0.1613	0.0237	1.17506	1.1217	1.23096	<.0001
Insurance Plan: POS (vs HMO)	0.1598	0.0185	1.17325	1.13154	1.2165	<.0001
Insurance Plan: IND (vs HMO)	-0.0323	0.0256	0.96821	0.92089	1.01796	0.2063
Insurance Plan: Other plans (vs HMO)	-0.4469	0.0796	0.6396	0.54719	0.74762	<.0001
Age	-0.0084	0.0006	0.99167	0.99045	0.9929	<.0001
Obesity	-0.048	0.0167	0.95312	0.92244	0.98482	0.004
Hypertension	-0.0035	0.0138	0.99652	0.96999	1.02377	0.7999
Hyperlipidemia	0.0773	0.0134	1.08039	1.0524	1.10913	<.0001
Amount of time the person was covered under the plan (years)	1.4686	0.0296	4.34323	4.09877	4.60226	<.0001
Eye-care: Visited unspecified eye provider (vs visited ophthalmologists only)	-0.7694	0.1256	0.4633	0.36218	0.59264	<.0001

Eye-care: Visited optometrists only (vs visited ophthalmologists only)	0.6768	0.019	1.9676	1.89572	2.04221	<.0001
Eye-care: Visited both (vs visited ophthalmologists only)	0.283	0.0131	1.32713	1.29355	1.36159	<.0001

HMO = health maintenance organization

IND = indemnity plan

PPO = preferred provider organization

EPO = exclusive provider organization

The fitted model coefficients reported here were used to predict odds (or probabilities) of the outcome for different groups of enrollees in different years. Various comparisons were then made between the estimated odds and these comparative odds were reported in the paper. While estimating these odds, all other predictors were assumed to be at their average value or reference value.

Table 18: Logistic for visual field testing for those under the exclusive care of optometrists

Model Information	
Distribution	Binomial
Link Function	Logit
Number of Observations Used	242318
Number of Events	73269
Number of Trials	242318
Missing Values	32

Response Profile		
Ordered Value	Dependent variable	Total Frequency
1	1	73269
2	0	169049

PROC GENMOD is modeling the probability that dependent variable='1'.

Generalized Estimating Equations Model Information	
Correlation Structure	8-Dependent
Within-Subject Effect	year (9 levels)

Generalized Estimating Equations Fit Criteria	
Quasi-likelihood Information Criterion	285923.7392

Score Statistics For Type 3 Generalized Estimating Equations Analysis			
Source	Degrees of Freedom	Chi-Square	p-value
Year	1	28.34	<.0001
Year-squared	1	5.28	0.0215
Open-angle glaucoma	1	215.37	<.0001
Year*Open-angle glaucoma	1	0.34	0.5603
Year-squared*Open-angle glaucoma	1	0.13	0.7197
Glaucoma suspect	1	138.06	<.0001
Year*Glaucoma suspect	1	3.46	0.063
Year-squared*Glaucoma suspect	1	1.52	0.2178
Other nerve conditions	1	54.56	<.0001
Year*Other nerve conditions	1	0.02	0.8915
Year-squared*Other nerve conditions	1	0.49	0.4849
Macular Edema	1	11.71	0.0006
Exudative Macular degeneration	1	0.22	0.6413

Other retina conditions	1	23.65	<.0001
Non-Proliferative Diabetic Retinopathy	1	9.35	0.0022
Proliferative Diabetic Retinopathy	1	1.07	0.3003
Race	4	46.86	<.0001
Insurance type	2	23.96	<.0001
Sex	1	47.18	<.0001
Education	4	22.87	0.0001
Household Net Worth	4	39.07	<.0001
US Region of residence	4	76.45	<.0001
Insurance plan	5	499.61	<.0001
Age	1	9.47	0.0021
Obesity	1	0.94	0.3313
Hypertension	1	2.22	0.1361
Hyperlipidemia	1	1.37	0.2412
Amount of time the person was covered under the plan (years)	1	3030.42	<.0001

Parameter estimates						
Parameter	Estimate	Std error of estimate	Exponentiated estimate	95% lower confidence limit for exponentiated estimate	95% upper confidence limit for exponentiated estimate	p-value
Intercept	-2.3162	0.1164	0.09865	0.07853	0.12393	<.0001
Year	-0.2152	0.0399	0.80634	0.74564	0.87199	<.0001
Year-squared	0.0092	0.004	1.00922	1.00136	1.01715	0.0214
Open-angle glaucoma	1.3945	0.0983	4.03297	3.3259	4.89036	<.0001
Year*Open-angle glaucoma	0.0241	0.0417	1.02443	0.94398	1.11174	0.5629
Year-squared*Open-angle glaucoma	0.0015	0.0042	1.00149	0.99334	1.00971	0.721
Glaucoma suspect	1.0549	0.0922	2.87162	2.39698	3.44025	<.0001
Year*Glaucoma suspect	-0.0721	0.0393	0.93041	0.86143	1.00492	0.0665
Year-squared*Glaucoma suspect	0.0048	0.0039	1.00482	0.99712	1.01259	0.2202
Other nerve conditions	0.5727	0.0818	1.77299	1.51033	2.08132	<.0001
Year*Other nerve conditions	-0.0046	0.0343	0.99545	0.93074	1.06467	0.8943
Year-squared*Other nerve conditions	-0.0023	0.0034	0.99769	0.99114	1.00429	0.4925
Macular Edema	0.4822	0.1318	1.61969	1.25097	2.09709	0.0003
Exudative Macular degeneration	0.0739	0.16	1.0767	0.7868	1.4734	0.6443
Other retina conditions	-0.0916	0.0191	0.91251	0.87894	0.94736	<.0001
Non-Proliferative Diabetic Retinopathy	0.1245	0.0404	1.13255	1.04624	1.22598	0.0021
Proliferative Diabetic Retinopathy	-0.182	0.1794	0.8336	0.58646	1.18489	0.3104
Race: Blacks (vs Whites)	0.0731	0.0233	1.07587	1.02789	1.1261	0.0017
Race: Latinos (vs Whites)	0.1111	0.0269	1.11748	1.06013	1.17794	<.0001
Race: Asians (vs Whites)	0.1913	0.0386	1.21077	1.12247	1.30602	<.0001

Race: Other races (vs Whites)	0.0385	0.0647	1.03927	0.91555	1.17969	0.5514
Insurance type: Commercial & Medicaid (vs Commercial only)	-0.0315	0.0514	0.96901	0.87622	1.07163	0.5399
Insurance type: Commercial & Medicare (vs Commercial only)	-0.1673	0.0346	0.84598	0.79045	0.9054	<.0001
Sex: Females (vs Males)	0.0761	0.0112	1.07907	1.05564	1.10301	<.0001
Education: High school diploma (vs less than High School)	-0.0916	0.0499	0.91249	0.82752	1.00617	0.0663
Education: Some college (vs less than High School)	-0.0378	0.0506	0.96288	0.87203	1.0632	0.4545
Education: College diploma (vs less than High School)	-0.0832	0.0522	0.92016	0.83064	1.01934	0.1111
Education: Advanced degree (vs less than High School)	-0.2233	0.175	0.7999	0.56763	1.12722	0.2021
Household Net Worth: 25K-75K (vs <25K)	0.0296	0.0269	1.03008	0.97717	1.08584	0.2706
Household Net Worth: 75K-150K (vs <25K)	0.0211	0.0233	1.02133	0.97571	1.06908	0.3653
Household Net Worth: 150K-500K (vs <25K)	0.0667	0.0209	1.06896	1.02603	1.11368	0.0014
Household Net Worth: >500K (vs <25K)	0.1387	0.0256	1.14878	1.09265	1.2078	<.0001
US Region of residence: South-East (vs North-East)	0.0517	0.0166	1.05311	1.01936	1.08797	0.0018
US Region of residence: Mid-West (vs North-East)	0.0773	0.0166	1.08031	1.04573	1.11604	<.0001
US Region of residence: West (vs North-East)	0.2025	0.024	1.22451	1.16828	1.28344	<.0001
US Region of residence: Other regions (vs North-East)	0.1875	0.2369	1.20625	0.75823	1.919	0.4286
Insurance Plan: PPO (vs HMO)	0.2513	0.02	1.28573	1.23634	1.33709	<.0001
Insurance Plan: EPO (vs HMO)	0.2907	0.0212	1.33737	1.28305	1.39399	<.0001
Insurance Plan: POS (vs HMO)	0.3245	0.0154	1.38337	1.34212	1.42589	<.0001
Insurance Plan: IND (vs HMO)	0.1057	0.0374	1.11144	1.03288	1.19596	0.0047
Insurance Plan: Other plans (vs HMO)	-0.2124	0.0972	0.80867	0.66839	0.9784	0.0289
Age	-0.0023	0.0007	0.99772	0.99627	0.99918	0.0022
Obesity	-0.0164	0.0171	0.98371	0.95131	1.01722	0.3366
Hypertension	-0.0188	0.0127	0.98137	0.95716	1.00619	0.1399
Hyperlipidemia	0.0146	0.0126	1.01472	0.98998	1.04009	0.2458
Amount of time the person was covered under the plan (years)	1.3624	0.0264	3.90558	3.70878	4.11282	<.0001

HMO = health maintenance organization
IND = indemnity plan
PPO = preferred provider organization
EPO = exclusive provider organization

The fitted model coefficients reported here were used to predict odds (or probabilities) of the outcome for different groups of enrollees in different years. Various comparisons were then made between the

estimated odds and these comparative odds were reported in the paper. While estimating these odds, all other predictors were assumed to be at their average value or reference value.

Table 19: Logistic for visual field testing for those under the exclusive care of ophthalmologists

Model Information	
Distribution	Binomial
Link Function	Logit
Number of Observations Used	1073736
Number of Events	370030
Number of Trials	1073736
Missing Values	110

Response Profile		
Ordered Value	Dependent variable	Total Frequency
1	1	370030
2	0	703706

PROC GENMOD is modeling the probability that dependent variable='1'.

Generalized Estimating Equations Model Information	
Correlation Structure	8-Dependent
Within-Subject Effect	year (9 levels)

Generalized Estimating Equations Fit Criteria	
Quasi-likelihood Information Criterion	1271873.168

Score Statistics For Type 3 Generalized Estimating Equations Analysis			
Source	Degrees of Freedom	Chi-Square	p-value
Year	1	199.44	<.0001
Year-squared	1	30.99	<.0001
Open-angle glaucoma	1	2954.81	<.0001
Year*Open-angle glaucoma	1	12.21	0.0005
Year-squared*Open-angle glaucoma	1	0.78	0.3763
Glaucoma suspect	1	1151.72	<.0001
Year*Glaucoma suspect	1	1.64	0.1997
Year-squared*Glaucoma suspect	1	5.13	0.0236
Other nerve conditions	1	450.51	<.0001
Year*Other nerve conditions	1	17.56	<.0001
Year-squared*Other nerve conditions	1	8.38	0.0038

Macular Edema	1	18.89	<.0001
Exudative Macular degeneration	1	50.55	<.0001
Other retina conditions	1	676.7	<.0001
Non-Proliferative Diabetic Retinopathy	1	4.88	0.0272
Proliferative Diabetic Retinopathy	1	327.12	<.0001
Race	4	71.64	<.0001
Insurance type	2	132.5	<.0001
Sex	1	96.8	<.0001
Education	4	80.61	<.0001
Household Net Worth	4	141.41	<.0001
US Region of residence	4	73.8	<.0001
Insurance plan	5	275.33	<.0001
Age	1	11.02	0.0009
Obesity	1	34.92	<.0001
Hypertension	1	14.8	0.0001
Hyperlipidemia	1	131.51	<.0001
Amount of time the person was covered under the plan (years)	1	18245.6	<.0001

Parameter estimates						
Parameter	Estimate	Std error of estimate	Exponentiated estimate	95% lower confidence limit for exponentiated estimate	95% upper confidence limit for exponentiated estimate	p-value
Intercept	-2.9763	0.0435	0.05098	0.04681	0.05552	<.0001
Year	-0.2009	0.0138	0.818	0.79614	0.84048	<.0001
Year-squared	0.0085	0.0015	1.00852	1.00557	1.01147	<.0001
Open-angle glaucoma	1.5776	0.0289	4.84326	4.57689	5.12514	<.0001
Year*Open-angle glaucoma	0.048	0.0135	1.04922	1.02185	1.07732	0.0004
Year-squared*Open-angle glaucoma	0.0013	0.0015	1.00131	0.99846	1.00416	0.368
Glaucoma suspect	0.9982	0.0293	2.71343	2.56207	2.87373	<.0001
Year*Glaucoma suspect	-0.0181	0.0139	0.98211	0.95579	1.00915	0.1927
Year-squared*Glaucoma suspect	0.0034	0.0015	1.00345	1.00051	1.00639	0.0214
Other nerve conditions	0.471	0.0227	1.60167	1.53191	1.6746	<.0001
Year*Other nerve conditions	-0.0431	0.0104	0.95782	0.93845	0.97758	<.0001
Year-squared*Other nerve conditions	0.0031	0.0011	1.00315	1.001	1.00531	0.0041
Macular Edema	-0.0947	0.022	0.90965	0.8713	0.94969	<.0001
Exudative Macular degeneration	-0.194	0.0277	0.82365	0.78007	0.86966	<.0001
Other retina conditions	-0.1851	0.0072	0.831	0.81933	0.84283	<.0001
Non-Proliferative Diabetic Retinopathy	-0.0291	0.0132	0.97137	0.94649	0.9969	0.0282
Proliferative Diabetic Retinopathy	-0.4323	0.0242	0.64903	0.61894	0.68059	<.0001
Race: Blacks (vs Whites)	0.053	0.0107	1.05445	1.0326	1.07675	<.0001

Race: Latinos (vs Whites)	0.0069	0.0112	1.00687	0.98502	1.02921	0.5406
Race: Asians (vs Whites)	0.1033	0.0146	1.10877	1.07745	1.14101	<.0001
Race: Other races (vs Whites)	0.0147	0.0275	1.01476	0.96155	1.07093	0.5939
Insurance type: Commercial & Medicaid (vs Commercial only)	-0.0533	0.0315	0.94811	0.89143	1.00839	0.0902
Insurance type: Commercial & Medicare (vs Commercial only)	-0.1636	0.0143	0.84909	0.8256	0.87325	<.0001
Sex: Females (vs Males)	0.0544	0.0056	1.05586	1.04443	1.06742	<.0001
Education: High school diploma (vs less than High School)	-0.0203	0.0216	0.97991	0.93929	1.02229	0.3476
Education: Some college (vs less than High School)	-0.0091	0.0219	0.99097	0.94939	1.03437	0.6783
Education: College diploma (vs less than High School)	-0.0746	0.0226	0.92813	0.88798	0.97009	0.0009
Education: Advanced degree (vs less than High School)	-0.0983	0.0498	0.90639	0.82204	0.99939	0.0486
Household Net Worth: 25K-75K (vs <25K)	0.0136	0.015	1.01369	0.98439	1.04387	0.3636
Household Net Worth: 75K-150K (vs <25K)	0.0474	0.0129	1.04858	1.02232	1.07552	0.0002
Household Net Worth: 150K-500K (vs <25K)	0.0986	0.0113	1.10367	1.07955	1.12834	<.0001
Household Net Worth: >500K (vs <25K)	0.1208	0.0127	1.12846	1.10063	1.15698	<.0001
US Region of residence: South-East (vs North-East)	0.0105	0.0079	1.01058	0.99512	1.02629	0.181
US Region of residence: Mid-West (vs North-East)	0.0114	0.0086	1.01147	0.99453	1.0287	0.1857
US Region of residence: West (vs North-East)	0.0762	0.0099	1.07917	1.05839	1.10035	<.0001
US Region of residence: Other regions (vs North-East)	-0.172	0.1005	0.84199	0.69142	1.02535	0.0871
Insurance Plan: PPO (vs HMO)	0.0129	0.0104	1.01299	0.9926	1.03381	0.2134
Insurance Plan: EPO (vs HMO)	0.1232	0.0116	1.13111	1.10559	1.15722	<.0001
Insurance Plan: POS (vs HMO)	0.0851	0.0089	1.0888	1.07001	1.10793	<.0001
Insurance Plan: IND (vs HMO)	-0.016	0.0136	0.98411	0.95823	1.01069	0.2387
Insurance Plan: Other plans (vs HMO)	-0.309	0.0471	0.73417	0.66939	0.80521	<.0001
Age	0.0011	0.0003	1.00111	1.00045	1.00177	0.0009
Obesity	-0.0505	0.0086	0.95075	0.93485	0.96692	<.0001
Hypertension	0.0252	0.0066	1.02552	1.01237	1.03885	0.0001
Hyperlipidemia	0.0753	0.0066	1.07825	1.06437	1.09231	<.0001
Amount of time the person was covered under the plan (years)	1.7213	0.0135	5.59161	5.44609	5.74102	<.0001

HMO = health maintenance organization

IND = indemnity plan

PPO = preferred provider organization

EPO = exclusive provider organization

The fitted model coefficients reported here were used to predict odds (or probabilities) of the outcome for different groups of enrollees in different years. Various comparisons were then made between the estimated odds and these comparative odds were reported in the paper. While estimating these odds, all other predictors were assumed to be at their average value or reference value.

Table 20: Logistic for visual field testing for those under the care of both provider types

Model Information	
Distribution	Binomial
Link Function	Logit
Number of Observations Used	310470
Number of Events	107822
Number of Trials	310470
Missing Values	19

Response Profile		
Ordered Value	Dependent variable	Total Frequency
1	1	107822
2	0	202648

PROC GENMOD is modeling the probability that dependent variable='1'.

Generalized Estimating Equations Model Information	
Correlation Structure	8-Dependent
Within-Subject Effect	year (9 levels)

Generalized Estimating Equations Fit Criteria	
Quasi-likelihood Information Criterion	370060.5684

Score Statistics For Type 3 Generalized Estimating Equations Analysis			
Source	Degrees of Freedom	Chi-Square	p-value
Year	1	105.25	<.0001
Year-squared	1	19.65	<.0001
Open-angle glaucoma	1	620.51	<.0001
Year*Open-angle glaucoma	1	15.7	<.0001
Year-squared*Open-angle glaucoma	1	0.35	0.5536
Glaucoma suspect	1	290.2	<.0001
Year*Glaucoma suspect	1	3.61	0.0575
Year-squared*Glaucoma suspect	1	7.14	0.0075
Other nerve conditions	1	101.31	<.0001
Year*Other nerve conditions	1	0.24	0.6216
Year-squared*Other nerve conditions	1	0.05	0.8257
Macular Edema	1	7.92	0.0049

Exudative Macular degeneration	1	37.3	<.0001
Other retina conditions	1	240.91	<.0001
Non-Proliferative Diabetic Retinopathy	1	12.48	0.0004
Proliferative Diabetic Retinopathy	1	93.46	<.0001
Race	4	37.53	<.0001
Insurance type	2	25.55	<.0001
Sex	1	19.71	<.0001
Education	4	8.1	0.0878
Household Net Worth	4	40.81	<.0001
US Region of residence	4	58.23	<.0001
Insurance plan	5	229.86	<.0001
Age	1	13.51	0.0002
Obesity	1	10.16	0.0014
Hypertension	1	0.03	0.8645
Hyperlipidemia	1	12.04	0.0005
Amount of time the person was covered under the plan (years)	1	3355.83	<.0001

Parameter estimates						
Parameter	Estimate	Std error of estimate	Exponentiated estimate	95% lower confidence limit for exponentiated estimate	95% upper confidence limit for exponentiated estimate	p-value
Intercept	-2.4205	0.0837	0.08888	0.07543	0.10473	<.0001
Year	-0.2583	0.0246	0.77233	0.73604	0.81041	<.0001
Year-squared	0.0118	0.0026	1.01182	1.00666	1.01701	<.0001
Open-angle glaucoma	1.3056	0.0523	3.69	3.33023	4.08865	<.0001
Year*Open-angle glaucoma	0.0953	0.0237	1.10003	1.05018	1.15225	<.0001
Year-squared*Open-angle glaucoma	-0.0015	0.0025	0.9985	0.99362	1.0034	0.5482
Glaucoma suspect	0.9182	0.0538	2.50482	2.25412	2.7834	<.0001
Year*Glaucoma suspect	-0.0472	0.0246	0.95388	0.9089	1.00109	0.0554
Year-squared*Glaucoma suspect	0.007	0.0026	1.00707	1.00193	1.01224	0.0069
Other nerve conditions	0.4177	0.0426	1.51844	1.3969	1.65056	<.0001
Year*Other nerve conditions	-0.0092	0.0189	0.99083	0.95479	1.02822	0.6258
Year-squared*Other nerve conditions	0.0004	0.002	1.00043	0.9966	1.00426	0.827
Macular Edema	-0.092	0.033	0.91211	0.85493	0.97312	0.0054
Exudative Macular degeneration	-0.2321	0.0387	0.79286	0.73493	0.85535	<.0001
Other retina conditions	-0.1873	0.0122	0.8292	0.80963	0.84925	<.0001
Non-Proliferative Diabetic Retinopathy	-0.084	0.024	0.91942	0.87723	0.96364	0.0005
Proliferative Diabetic Retinopathy	-0.4005	0.042	0.66997	0.61708	0.7274	<.0001
Race: Blacks (vs Whites)	0.1196	0.021	1.12702	1.08157	1.17438	<.0001
Race: Latinos (vs Whites)	0.0151	0.0246	1.01525	0.9675	1.06535	0.5381

Race: Asians (vs Whites)	0.0808	0.0333	1.08413	1.01554	1.15735	0.0154
Race: Other races (vs Whites)	-0.0055	0.0537	0.99451	0.89514	1.10492	0.9184
Insurance type: Commercial & Medicaid (vs Commercial only)	-0.1416	0.0482	0.86801	0.78978	0.95398	0.0033
Insurance type: Commercial & Medicare (vs Commercial only)	-0.1163	0.0257	0.89019	0.84641	0.93624	<.0001
Sex: Females (vs Males)	0.046	0.0104	1.04703	1.02588	1.06862	<.0001
Education: High school diploma (vs less than High School)	0.0011	0.0447	1.0011	0.91721	1.09265	0.9804
Education: Some college (vs less than High School)	0.0188	0.0452	1.01893	0.93257	1.1133	0.6781
Education: College diploma (vs less than High School)	-0.0139	0.0466	0.98623	0.90021	1.08047	0.7659
Education: Advanced degree (vs less than High School)	-0.2165	0.1504	0.80536	0.59978	1.0814	0.15
Household Net Worth: 25K-75K (vs <25K)	0.0156	0.0266	1.01568	0.96405	1.07007	0.5589
Household Net Worth: 75K-150K (vs <25K)	0.0165	0.023	1.01662	0.97182	1.06349	0.4735
Household Net Worth: 150K-500K (vs <25K)	0.0799	0.0202	1.08319	1.0411	1.12697	<.0001
Household Net Worth: >500K (vs <25K)	0.1162	0.0235	1.12322	1.07258	1.17625	<.0001
US Region of residence: South-East (vs North-East)	0.0533	0.0156	1.05471	1.02299	1.08742	0.0006
US Region of residence: Mid-West (vs North-East)	0.0479	0.0158	1.04904	1.017	1.08209	0.0025
US Region of residence: West (vs North-East)	0.1626	0.0214	1.1766	1.12825	1.22704	<.0001
US Region of residence: Other regions (vs North-East)	0.032	0.2166	1.03255	0.67541	1.57855	0.8824
Insurance Plan: PPO (vs HMO)	0.1904	0.0193	1.20973	1.16477	1.25644	<.0001
Insurance Plan: EPO (vs HMO)	0.2046	0.0205	1.22698	1.17861	1.27733	<.0001
Insurance Plan: POS (vs HMO)	0.1994	0.0153	1.22062	1.18457	1.25776	<.0001
Insurance Plan: IND (vs HMO)	0.1228	0.0241	1.13069	1.07855	1.18536	<.0001
Insurance Plan: Other plans (vs HMO)	-0.3336	0.0774	0.71632	0.61553	0.83361	<.0001
Age	-0.0023	0.0006	0.99768	0.99644	0.99892	0.0003
Obesity	-0.0479	0.0151	0.95324	0.92539	0.98193	0.0015
Hypertension	0.0021	0.0124	1.0021	0.97811	1.02667	0.8653
Hyperlipidemia	0.043	0.0125	1.04396	1.01872	1.06982	0.0006
Amount of time the person was covered under the plan (years)	1.5763	0.0288	4.83696	4.57156	5.11776	<.0001

HMO = health maintenance organization
IND = indemnity plan
PPO = preferred provider organization
EPO = exclusive provider organization

The fitted model coefficients reported here were used to predict odds (or probabilities) of the outcome for different groups of enrollees in different years. Various comparisons were then made between the estimated odds and these comparative odds were reported in the paper. While estimating these odds, all other predictors were assumed to be at their average value or reference value.

Table 21: Logistic for visual field testing, including all provider types

Model Information	
Distribution	Binomial
Link Function	Logit
Number of Observations Used	1634251
Number of Events	552916
Number of Trials	1634251
Missing Values	161

Response Profile		
Ordered Value	Dependent variable	Total Frequency
1	1	552916
2	0	1081335

PROC GENMOD is modeling the probability that dependent variable='1'.

Generalized Estimating Equations Model Information	
Correlation Structure	8-Dependent
Within-Subject Effect	year (9 levels)

Generalized Estimating Equations Fit Criteria	
Quasi-likelihood Information Criterion	1937717.273

Score Statistics For Type 3 Generalized Estimating Equations Analysis			
Source	Degrees of Freedom	Chi-Square	p-value
Year	1	311.6	<.0001
Year-squared	1	44.98	<.0001
Open-angle glaucoma	1	3838.52	<.0001
Year*Open-angle glaucoma	1	17.44	<.0001
Year-squared*Open-angle glaucoma	1	1.82	0.1778
Glaucoma suspect	1	1606.86	<.0001
Year*Glaucoma suspect	1	8.94	0.0028
Year-squared*Glaucoma suspect	1	13.93	0.0002
Other nerve conditions	1	608.57	<.0001
Year*Other nerve conditions	1	13.76	0.0002
Year-squared*Other nerve conditions	1	6.39	0.0115
Macular Edema	1	23.55	<.0001
Exudative Macular degeneration	1	86.6	<.0001

Other retina conditions	1	929.37	<.0001
Non-Proliferative Diabetic Retinopathy	1	5.76	0.0164
Proliferative Diabetic Retinopathy	1	442.95	<.0001
Race	4	135.4	<.0001
Insurance type	2	151.12	<.0001
Sex	1	161.63	<.0001
Education	4	96.98	<.0001
Household Net Worth	4	211.35	<.0001
US Region of residence	4	152.89	<.0001
Insurance plan	5	734.1	<.0001
Age	1	0.04	0.8415
Obesity	1	46.02	<.0001
Hypertension	1	6.68	0.0098
Hyperlipidemia	1	123.8	<.0001
Amount of time the person was covered under the plan (years)	1	24766.8	<.0001
Eye-care	3	366.29	<.0001

Parameter estimates						
Parameter	Estimate	Std error of estimate	Exponentiated estimate	95% lower confidence limit for exponentiated estimate	95% upper confidence limit for exponentiated estimate	p-value
Intercept	-2.815	0.0361	0.0599	0.05581	0.06429	<.0001
Year	-0.2061	0.0114	0.81374	0.79578	0.83209	<.0001
Year-squared	0.0083	0.0012	1.00832	1.00593	1.01073	<.0001
Open-angle glaucoma	1.505	0.0242	4.50419	4.2954	4.72314	<.0001
Year*Open-angle glaucoma	0.0472	0.0111	1.0483	1.02571	1.07139	<.0001
Year-squared*Open-angle glaucoma	0.0016	0.0012	1.00162	0.9993	1.00394	0.1717
Glaucoma suspect	0.9851	0.0245	2.67798	2.55238	2.80977	<.0001
Year*Glaucoma suspect	-0.0345	0.0114	0.96613	0.94481	0.98794	0.0025
Year-squared*Glaucoma suspect	0.0046	0.0012	1.0046	1.00221	1.007	0.0002
Other nerve conditions	0.4659	0.0194	1.59347	1.53409	1.65514	<.0001
Year*Other nerve conditions	-0.032	0.0088	0.96848	0.95201	0.98523	0.0003
Year-squared*Other nerve conditions	0.0023	0.0009	1.00229	1.0005	1.00408	0.0122
Macular Edema	-0.0868	0.018	0.91687	0.88502	0.94987	<.0001
Exudative Macular degeneration	-0.2033	0.0222	0.816	0.7812	0.85235	<.0001
Other retina conditions	-0.1772	0.0059	0.83758	0.82795	0.84731	<.0001
Non-Proliferative Diabetic Retinopathy	-0.0265	0.0111	0.97383	0.95284	0.99528	0.0171
Proliferative Diabetic Retinopathy	-0.4292	0.0207	0.65106	0.62517	0.67801	<.0001
Race: Blacks (vs Whites)	0.072	0.0088	1.0747	1.0564	1.09333	<.0001
Race: Latinos (vs Whites)	0.0221	0.0095	1.02234	1.0035	1.04154	0.0199
Race: Asians (vs Whites)	0.1072	0.0126	1.11314	1.08601	1.14094	<.0001

Race: Other races (vs Whites)	0.0146	0.0228	1.01469	0.9703	1.0611	0.5229
Insurance type: Commercial & Medicaid (vs Commercial only)	-0.0731	0.0233	0.92955	0.888	0.97304	0.0017
Insurance type: Commercial & Medicare (vs Commercial only)	-0.141	0.0116	0.86848	0.84889	0.88853	<.0001
Sex: Females (vs Males)	0.0566	0.0045	1.05819	1.04895	1.06752	<.0001
Education: High school diploma (vs less than High School)	-0.0266	0.018	0.97377	0.93993	1.00882	0.1407
Education: Some college (vs less than High School)	-0.004	0.0183	0.99605	0.96101	1.03236	0.8283
Education: College diploma (vs less than High School)	-0.0616	0.0189	0.9403	0.90619	0.97569	0.0011
Education: Advanced degree (vs less than High School)	-0.1207	0.0452	0.88628	0.81116	0.96835	0.0075
Household Net Worth: 25K-75K (vs <25K)	0.0174	0.0117	1.01753	0.99447	1.04113	0.1374
Household Net Worth: 75K-150K (vs <25K)	0.0367	0.0101	1.03734	1.01698	1.0581	0.0003
Household Net Worth: 150K-500K (vs <25K)	0.0905	0.0089	1.09469	1.07583	1.11388	<.0001
Household Net Worth: >500K (vs <25K)	0.1204	0.0102	1.128	1.1057	1.15075	<.0001
US Region of residence: South-East (vs North-East)	0.0254	0.0064	1.02569	1.01282	1.03873	<.0001
US Region of residence: Mid-West (vs North-East)	0.0306	0.0068	1.03103	1.0173	1.04495	<.0001
US Region of residence: West (vs North-East)	0.1002	0.0084	1.10536	1.08736	1.12365	<.0001
US Region of residence: Other regions (vs North-East)	-0.1088	0.0845	0.89695	0.76008	1.05847	0.198
Insurance Plan: PPO (vs HMO)	0.0848	0.0082	1.08846	1.07101	1.1062	<.0001
Insurance Plan: EPO (vs HMO)	0.1729	0.0091	1.18875	1.16774	1.21013	<.0001
Insurance Plan: POS (vs HMO)	0.1516	0.0069	1.16366	1.14814	1.17939	<.0001
Insurance Plan: IND (vs HMO)	0.0469	0.0111	1.04802	1.0255	1.07103	<.0001
Insurance Plan: Other plans (vs HMO)	-0.2971	0.0369	0.74299	0.69115	0.79872	<.0001
Age	0.0001	0.0003	1.00005	0.99952	1.00059	0.8421
Obesity	-0.046	0.0068	0.95508	0.94238	0.96794	<.0001
Hypertension	0.0135	0.0053	1.01362	1.00321	1.02415	0.0102
Hyperlipidemia	0.0583	0.0053	1.06006	1.04915	1.07108	<.0001
Amount of time the person was covered under the plan (years)	1.6412	0.011	5.16151	5.05104	5.27439	<.0001
Eye-care: Visited unspecified eye provider (vs visited ophthalmologists only)	-0.3528	0.0323	0.70272	0.65957	0.7487	<.0001
Eye-care: Visited optometrists only (vs visited ophthalmologists only)	0.084	0.0064	1.0876	1.07396	1.1014	<.0001
Eye-care: Visited both (vs visited ophthalmologists only)	0.0566	0.0058	1.05827	1.04625	1.07042	<.0001

HMO = health maintenance organization
IND = indemnity plan

PPO = preferred provider organization
EPO = exclusive provider organization

The fitted model coefficients reported here were used to predict odds (or probabilities) of the outcome for different groups of enrollees in different years. Various comparisons were then made between the estimated odds and these comparative odds were reported in the paper. While estimating these odds, all other predictors were assumed to be at their average value or reference value.

Table 22: Logistic for visual field testing including all provider types, but only in open-angle glaucoma patients

Model Information	
Distribution	Binomial
Link Function	Logit
Number of Observations Used	463782
Number of Events	241734
Number of Trials	463782
Missing Values	46

Response Profile		
Ordered Value	Dependent variable	Total Frequency
1	1	241734
2	0	222048

PROC GENMOD is modeling the probability that dependent variable='1'.

Generalized Estimating Equations Model Information	
Correlation Structure	8-Dependent
Within-Subject Effect	year (9 levels)

Generalized Estimating Equations Fit Criteria	
Quasi-likelihood Information Criterion	620880.7074

Score Statistics For Type 3 Generalized Estimating Equations Analysis			
Source	Degrees of Freedom	Chi-Square	p-value
Year	1	584.08	<.0001
Year-squared	1	181.13	<.0001
Other nerve conditions	1	115.82	<.0001
Year*Other nerve conditions	1	10.52	0.0012
Year-squared*Other nerve conditions	1	12.12	0.0005
Macular Edema	1	93.39	<.0001
Exudative Macular degeneration	1	106.63	<.0001
Other retina conditions	1	43.91	<.0001
Non-Proliferative Diabetic Retinopathy	1	61.14	<.0001
Proliferative Diabetic Retinopathy	1	304.43	<.0001
Race	4	50.99	<.0001
Insurance type	2	63.66	<.0001

Sex	1	43.25	<.0001
Education	4	17.35	0.0017
Household Net Worth	4	280.16	<.0001
US Region of residence	4	49.8	<.0001
Insurance plan	5	284.54	<.0001
Age	1	49.51	<.0001
Obesity	1	58.1	<.0001
Hypertension	1	31.39	<.0001
Hyperlipidemia	1	176.59	<.0001
Amount of time the person was covered under the plan (years)	1	12580.2	<.0001
Eye-care	3	116.48	<.0001

Parameter estimates						
Parameter	Estimate	Std error of estimate	Exponentiated estimate	95% lower confidence limit for exponentiated estimate	95% upper confidence limit for exponentiated estimate	p-value
Intercept	-1.6541	0.0464	0.19127	0.17464	0.20949	<.0001
Year	-0.1392	0.0058	0.87008	0.86023	0.88004	<.0001
Year-squared	0.0086	0.0006	1.0086	1.00733	1.00986	<.0001
Other nerve conditions	0.2722	0.0259	1.31287	1.24779	1.38134	<.0001
Year*Other nerve conditions	-0.038	0.0119	0.96268	0.94053	0.98535	0.0014
Year-squared*Other nerve conditions	0.0043	0.0013	1.00433	1.00187	1.0068	0.0006
Macular Edema	-0.2652	0.0271	0.76707	0.72738	0.80892	<.0001
Exudative Macular degeneration	-0.3256	0.0313	0.72209	0.67914	0.76776	<.0001
Other retina conditions	-0.0667	0.0101	0.93544	0.91714	0.9541	<.0001
Non-Proliferative Diabetic Retinopathy	-0.1353	0.0172	0.87342	0.84446	0.90338	<.0001
Proliferative Diabetic Retinopathy	-0.5146	0.0289	0.59772	0.56479	0.63257	<.0001
Race: Blacks (vs Whites)	0.0454	0.0133	1.04649	1.01958	1.0741	0.0006
Race: Latinos (vs Whites)	-0.0135	0.0172	0.98655	0.95386	1.02036	0.4308
Race: Asians (vs Whites)	0.1508	0.0246	1.16278	1.10798	1.2203	<.0001
Race: Other races (vs Whites)	-0.01	0.0415	0.99004	0.91274	1.07388	0.8092
Insurance type: Commercial & Medicaid (vs Commercial only)	-0.2631	0.0389	0.76865	0.71228	0.82948	<.0001
Insurance type: Commercial & Medicare (vs Commercial only)	-0.0959	0.0179	0.90853	0.87724	0.94095	<.0001
Sex: Females (vs Males)	0.0513	0.0078	1.05266	1.03663	1.06893	<.0001

Education: High school diploma (vs less than High School)	-0.0088	0.0289	0.99128	0.93667	1.04909	0.7621
Education: Some college (vs less than High School)	0.0224	0.0295	1.02262	0.96526	1.08339	0.4475
Education: College diploma (vs less than High School)	-0.0139	0.0308	0.9862	0.92849	1.0475	0.6516
Education: Advanced degree (vs less than High School)	-0.0789	0.0902	0.92409	0.77436	1.10277	0.3814
Household Net Worth: 25K-75K (vs <25K)	0.0389	0.0197	1.03963	1.00032	1.08049	0.0481
Household Net Worth: 75K-150K (vs <25K)	0.0808	0.017	1.08413	1.04852	1.12095	<.0001
Household Net Worth: 150K-500K (vs <25K)	0.1712	0.0149	1.18675	1.15262	1.22189	<.0001
Household Net Worth: >500K (vs <25K)	0.2532	0.0175	1.28818	1.24484	1.33302	<.0001
US Region of residence: South-East (vs North-East)	0.0131	0.0116	1.01323	0.99036	1.03662	0.2592
US Region of residence: Mid-West (vs North-East)	0.0711	0.0124	1.07364	1.04777	1.10015	<.0001
US Region of residence: West (vs North-East)	0.0511	0.0152	1.05243	1.02159	1.08419	0.0008
US Region of residence: Other regions (vs North-East)	0.0261	0.1537	1.02643	0.75944	1.38727	0.8652
Insurance Plan: PPO (vs HMO)	0.08	0.0145	1.0833	1.05294	1.11454	<.0001
Insurance Plan: EPO (vs HMO)	0.1785	0.0171	1.19546	1.15617	1.23609	<.0001
Insurance Plan: POS (vs HMO)	0.1523	0.0127	1.16454	1.13581	1.194	<.0001
Insurance Plan: IND (vs HMO)	0.0221	0.0175	1.02239	0.988	1.05797	0.2047
Insurance Plan: Other plans (vs HMO)	-0.3765	0.0487	0.68629	0.62386	0.75495	<.0001
Age	-0.0033	0.0005	0.99672	0.99581	0.99763	<.0001
Obesity	-0.0926	0.0121	0.91157	0.89015	0.93351	<.0001
Hypertension	-0.0548	0.0098	0.94669	0.92864	0.96508	<.0001
Hyperlipidemia	0.1257	0.0095	1.13392	1.11308	1.15514	<.0001
Amount of time the person was covered under the plan (years)	2.1749	0.0188	8.80131	8.48314	9.1314	<.0001
Eye-care: Visited unspecified eye provider (vs visited ophthalmologists only)	-0.5053	0.064	0.6033	0.53215	0.68396	<.0001
Eye-care: Visited optometrists only (vs visited ophthalmologists only)	-0.1084	0.0149	0.89728	0.8715	0.92382	<.0001
Eye-care: Visited both (vs visited ophthalmologists only)	0.0158	0.0098	1.01588	0.9965	1.03564	0.1088

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