

Supplemental Table 1. Multivariable Logistic Regression Analysis of Factors Associated with Insurance Payment

	92227 n = 16 124			92228 n = 3 256			92250 n = 169 140		
	OR	95% CI	P	OR	95% CI	P	OR	95% CI	P
Year	0.90	(0.88–0.93)	<.001	1.16	(1.10–1.21)	<.001	0.84	(0.83–0.84)	<.001
Visit Diagnosis^a									
DM without eye disease	-	-	-	-	-	-	-	-	-
Diabetic eye disease	1.37	(1.11–1.68)	0.004	0.36	(0.27–0.49)	<.001	1.01	(0.94–1.07)	0.811
Other eye disease	0.99	(0.84–1.17)	0.916	0.21	(0.15–0.28)	<.001	1.13	(1.08–1.17)	<.001
Other	1.03	(0.81–1.30)	0.822	0.13	(0.08–0.22)	<.001	1.12	(1.08–1.17)	<.001
Provider Type									
Eye care provider	0.31	(0.28–0.35)	<.001	1.40	(1.03–1.90)	0.034	1.50	(0.85–2.63)	0.159
General provider	-	-	-	-	-	-	-	-	-
Non-eye specialist	0.70	(0.56–0.88)	0.002	2.09	(1.21–3.62)	0.008	0.92	(0.88–0.96)	<.001
Other	0.80	(0.36–1.74)	0.565	11.88	(1.50–94.05)	0.019	1.02	(0.94–1.10)	0.684
Unknown	1.93	(0.54–6.89)	0.314	NE	NE	NE	0.82	(0.74–0.92)	<.001
Facility	4.55	(3.62–5.72)	<.001	4.47	(2.53–7.92)	<.001	4.07	(3.82–4.35)	<.001
Provider Setting									
Group practice	0.41	(0.34–0.50)	<.001	1.07	(0.65–1.76)	0.798	0.39	(0.37–0.41)	<.001
Hospital	0.76	(0.58–0.98)	0.037	2.53	(1.20–5.33)	0.015	0.55	(0.51–0.60)	<.001
Individual	-	-	-	-	-	-	-	-	-
Other facility	2.02	(1.49–2.74)	<.001	1.68	(0.79–3.56)	0.176	0.64	(0.57–0.73)	<.001
Unknown	1.90	(1.49–2.43)	<.001	3.69	(2.14–6.36)	<.001	0.52	(0.49–0.55)	<.001
Insurance									
Commercial insurance	-	-	-	-	-	-	-	-	-
Medicare Advantage	0.31	(0.28–0.35)	<.001	0.38	(0.29–0.50)	<.001	0.04	(0.03–0.04)	<.001
Unknown	0.52	(0.04–6.42)	0.611	0	(0–Inf.)	>0.999	0.24	(0.14–0.42)	<.001

OR = odds ratio; CI = confidence interval; DM = diabetes mellitus; NE = not estimated; Inf = infinity

^aDM without eye disease: ICD-9 (250.x0, 250.x1, 250.x2, 250.x3) and ICD-10 (E10, E11). Diabetic eye disease: ICD-9 (362.0–362.07, 250.5x) and ICD-10 (E08.3xxx–E13.3xxx). Other eye disease (excluding diabetic eye disease codes above): ICD-9 (190.x, 224.x, 234.x, 249.5x, 250.5x, 360.xx–379.xx, 743.xx, 918.x, 930.x, E914, V41.1, V42.5, V45.6x, V45.78, V80.1, V80.2) and ICD-10 (C69.xx, D09.2x, D31.xx, E08.3xxx–E13.3xxx, H00.xxx–H59.xxx, Q14.x, Q15.x, S05.x, T15.x, T26.x, Z90.01, Z94.7, Z96.1, Z85.840, Z87.720, Z98.4x, Z98.85).