

Table S1. Adjusted¹ odds ratios (ORs) and 95% confidence intervals for the association of glaucoma subtypes with myopia and hyperopia categories, Kaiser Permanente Northern California, 2008-2014.

	PACG		PEX		POAG		NTG		PIGM		OHTN	
	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI
OD Spherical Equivalent												
High myopia ^{2,8}			2.26	(1.38, 3.70)	2.24	(2.06, 2.44)	3.88	(3.24,4.64)	5.04	(3.72, 6.83)	1.54	(1.42, 1.67)
Moderate myopia ³	0.43	(0.34, 0.55)	1.15	(0.79, 1.67)	1.67	(1.57, 1.77)	2.17	(1.73, 2.72)	4.02	(3.16, 5.12)	1.35	(1.28, 1.42)
Low myopia ⁴	0.71	(0.61, 0.83)	1.30	(0.99, 1.71)	1.28	(1.22, 1.35)	1.43	(1.24, 1.65)	2.01	(1.60, 2.53)	1.28	(1.22, 1.34)
Emmetropia ⁵	1.00	---	1.00	---	1.00	---	1.00	---	1.00	---	1.00	---
Mild hyperopia ⁶	1.58	(1.43, 1.75)	1.03	(0.82, 1.28)	0.89	(0.85, 0.94)	0.89	(0.78, 1.02)	0.59	(0.44, 0.78)	1.02	(0.98, 1.07)
Severe hyperopia ^{7,8}	3.33	(2.92, 3.80)	0.83	(0.57, 1.21)	0.70	(0.64, 0.78)	0.43	(0.30, 0.61)	0.68	(0.40, 1.16)	0.92	(0.85, 1.00)
p-value for trend		P<0.0001		P<0.001		P<0.0001		P<0.0001		P<0.0001		P<0.0001

Abbreviations: primary angle-closure glaucoma (PACG), pseudoexfoliation glaucoma (PEX), primary open angle glaucoma (POAG), normal tension glaucoma (NTG), pigmentary glaucoma (PIGM), and ocular hypertension (OHTN).

¹ Adjusted for age at the first recorded spherical equivalent measure, sex, and race/ethnicity.

² Indicates SE \leq -6.00 D.

³ Indicates SE of -5.99 to -3.00 D.

⁴ Indicates SE of -2.99 to -1.00 D.

⁵ Indicates SE of -0.99 to 1.00 D.

⁶ Indicates SE of 1.01 to 3.00 D.

⁷ Indicates SE ≥ 3.01 D.

⁸ Estimates not provided for ≤ -6.00 for PCAG and ≥ 3.01 for PEX due to small numbers of subjects.

Table S2. Adjusted¹ odds ratios (ORs) and 95% confidence intervals for the association of glaucoma subtypes with myopia and hyperopia categories, < 65 years of age at refractive error measurements, Kaiser Permanente Northern California, 2008-2014.

OD Spherical Equivalent	PACG		PEX		POAG		NTG		PIGM		OHTN	
	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI
High myopia ^{2,8}			1.66	(0.48, 5.66)	2.37	(2.12, 2.64)	4.49	(3.52, 5.74)	5.29	(3.68, 7.61)	1.63	(1.48, 1.80)
Moderate myopia ³	0.40	(0.27, 0.59)	1.38	(0.57, 3.03)	1.62	(1.49, 1.77)	2.57	(2.06, 3.22)	3.65	(2.71, 4.92)	1.45	(1.35, 1.56)
Low myopia ⁴	0.59	(0.44, 0.77)	1.37	(0.66, 2.85)	1.24	(1.15, 1.35)	1.35	(1.06, 1.70)	2.08	(1.55, 2.80)	1.39	(1.31, 1.48)
Emmetropia ⁵	1.00	---	1.00	---	1.00	---	1.00	---	1.00	---	1.00	---
Mild hyperopia ⁶	2.82	(2.36, 3.36)	1.01	(0.47, 2.15)	0.86	(0.79, 0.94)	0.95	(0.73, 1.22)	0.46	(0.28, 0.75)	1.05	(0.98, 1.12)
Severe hyperopia ^{7,8}	7.74	(6.11, 9.79)	0.70	(0.09, 5.23)	0.74	(0.59, 0.93)	0.54	(0.24, 1.23)	0.86	(0.35, 2.13)	0.91	(0.77, 1.07)
Per Diopter Decrease	0.70	(0.68, 0.72)	1.08	(0.98, 1.19)	1.11	(1.10, 1.12)	1.17	(1.15, 1.20)	1.22	(1.18, 1.25)	1.06	(1.05, 1.07)
p-value for trend		P<0.0001		P<0.001		P<0.0001		P<0.0001		P<0.0001		P<0.0001

Abbreviations: primary angle-closure glaucoma (PACG), pseudoexfoliation glaucoma (PEX), primary open angle glaucoma (POAG), normal tension glaucoma (NTG), pigmentary glaucoma (PIGM), and ocular hypertension (OHTN).

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⁶ Indicates SE of 1.01 to 3.00 D.

⁷ Indicates SE ≥ 3.01 D.

⁸ Estimates not provided for ≤ -6.00 for PCAG and ≥ 3.01 for PEX due to small numbers of subjects.

Table S3. Adjusted¹ odds ratios (ORs) and 95% confidence intervals for the association of glaucoma subtypes with myopia and hyperopia categories, ≥ 65 years of age at refractive error measurements, Kaiser Permanente Northern California, 2008-2014.

OD Spherical Equivalent	PACG		PEX		POAG		NTG		PIGM		OHTN	
	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI
High myopia ^{2,8}			2.55	(1.48, 4.38)	2.01	(1.75, 2.32)	3.28	(2.48, 4.33)	4.12	(2.30, 7.35)	1.43	(1.23, 1.66)
Moderate myopia ³	0.48	(0.36, 0.66)	1.27	(0.82, 1.95)	1.69	(1.56, 1.85)	1.95	(1.58, 2.41)	4.03	(2.81, 5.77)	1.19	(1.09, 1.30)
Low myopia ⁴	0.81	(0.67, 0.98)	1.30	(0.97, 1.74)	1.32	(1.23, 1.42)	1.50	(1.25, 1.80)	1.89	(1.31, 2.71)	1.14	(1.06, 1.22)
Emmetropia ⁵	1.00	---	1.00	---	1.00	---	1.00	---	1.00	---	1.00	---
Mild hyperopia ⁶	1.13	(1.00, 1.28)	1.01	(0.80, 1.27)	0.88	(0.83, 0.94)	0.83	(0.71, 0.97)	0.64	(0.44, 0.92)	0.96	(0.91, 1.01)
Severe hyperopia ^{7,8}	2.34	(2.00, 2.72)	0.82	(0.56, 1.20)	0.70	(0.63, 0.78)	0.40	(0.27, 0.59)			0.91	(0.83, 1.00)
Per Diopter Decrease	0.85	(0.83, 0.87)	1.06	(1.02, 1.11)	1.10	(1.09, 1.11)	1.15	(1.13, 1.18)	1.23	(1.18, 1.27)	1.04	(1.03, 1.05)
p-value for trend		P<0.0001		P<0.001		P<0.0001		P<0.0001		P<0.0001		P<0.0001

Abbreviations: primary angle-closure glaucoma (PACG), pseudoexfoliation glaucoma (PEX), primary open angle glaucoma (POAG), normal tension glaucoma (NTG), pigmentary glaucoma (PIGM), and ocular hypertension (OHTN).

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⁶ Indicates SE of 1.01 to 3.00 D.

⁷ Indicates SE ≥ 3.01 D.

⁸ Estimates not provided for ≤ -6.00 for PCAG and ≥ 3.01 for PEX due to small numbers of subjects.