

Table S4: Linear Regression β Coefficients for the Association of VSQOL and VFL in the BSE among Chinese Americans in MOCCaS*

Vision-Specific Quality of Life	β_{MD}	(95% CI)	MD (dB) of VFL Associated with 5-point Difference in QOL**	P-Value Interaction by Race, Ethnicity		
				Chinese Americans	Latinos	African Americans
<u>Item Response Theory</u>						
Task Composite, IRT [†]	0.719	(0.567, 0.872)	7.0	< 0.001	1.000	0.172
Well-Being Composite, IRT [‡]	0.575	(0.419, 0.731)	8.7	< 0.001	0.990	0.420
<u>Classical Test Theory</u>						
Overall Composite, CTT [§]	0.498	(0.388, 0.608)	10.0	< 0.001	< 0.001	0.009
Vision-Related Role Function	1.039	(0.835, 1.243)	4.8	< 0.001	1.000	< 0.001
Vision-Related Mental Health	0.881	(0.673, 1.088)	5.7	< 0.001	0.257	< 0.001
Driving Difficulties	0.806	(0.583, 1.029)	6.2	< 0.001	< 0.001	1.000
Near Vision	0.565	(0.404, 0.726)	8.9	< 0.001	0.002	0.620
Vision-Related Dependency	0.516	(0.341, 0.691)	9.7	< 0.001	< 0.001	0.004
Distance Vision	0.489	(0.347, 0.631)	10.2	< 0.001	< 0.001	0.008
General Vision	0.481	(0.316, 0.647)	10.4	< 0.001	0.257	1.000
Ocular Pain	0.478	(0.283, 0.672)	10.5	< 0.001	0.257	0.063
Peripheral Vision	0.196	(0.042, 0.351)	25.5	0.039	< 0.001	1.000
Vision-Related Social Function	0.15	(0.044, 0.256)	33.3	0.022	< 0.001	1.000
Color Vision	0.051	(-0.060, 0.162)		0.743	< 0.001	1.000
<u>General Health Item</u>						
General Health	0.068	(-0.176, 0.313)		0.743	0.271	0.015

VSQOL = Vision-Specific Quality of Life; VFL = Visual Field Loss; BSE = Better Seeing Eye; MOCCaS = Multiethnic Ophthalmology Cohorts of California Study; 95% CI = 95% confidence interval; NEI-VFQ-25 = National Eye Institute Visual Function Questionnaire 25-Item; MD = Mean Deviation; IRT = Item Response Theory; CTT = Classical Test Theory

*VFL is presented as mean deviation score in decibels; VSQOL is assessed by the NEI-VFQ-25. Data are presented as coefficient (95% CI). NEI-VFQ-25 scores are adjusted for age, gender, education, employment status, income, acculturation, co-morbidities, health insurance, vision insurance, and visual acuity impairment. There was an interaction term for race, ethnicity and VFL. The Holm method was used to adjust for multiple comparisons for 15 VSQOL outcomes.

**Regression coefficients were transformed per 5-point difference in HRQOL score, a clinically significant difference in VSQOL score.

[†]IRT Task Composite was calculated from a graded response theory model of 12 items from near vision, distance vision, driving, color vision, peripheral vision, and role difficulties subscales.

[‡]IRT Well-Being Composite was calculated from a graded response model of 12 items from general vision, dependency on others, mental health, ocular pain, and social functioning subscales.

[§]Composite score is an un-weighted mean of the 12 subscale scores (excluding general health).

^{||}Scores could be generated for only 3,047 Chinese Americans who reported that they were currently driving or had driven in the past.