

eTable 2. Association of Retinal Microvascular Abnormality and its Subtypes with All-Cause and Cause-Specific Mortality
After Excluding Participants With a History of Cardiovascular Diseases at Baseline

	Hazard Ratio (95% CI)									
	Any RMA		Retinopathy		AVN		FAN		Hollenhorst plaque	
Model	Absent	Present	Absent	Present	Absent	Present	Absent	Present	Absent	Present
All-cause mortality										
Deaths, No./total No.	679/3908	292/939	797/4285	151/511	811/4355	157/482	932/4777	29/46	956/4824	9/12
Model 1 ^a	1 [Ref]	1.51 (1.36-1.69)	1 [Ref]	1.80 (1.50-2.16)	1 [Ref]	1.29 (1.10-1.50)	1 [Ref]	1.20 (0.80-1.81)	1 [Ref]	4.09 (2.28-7.34)
Model 2 ^b	1 [Ref]	1.52 (1.29-1.80)	1 [Ref]	1.78 (1.43-2.23)	1 [Ref]	1.29 (1.03-1.62)	1 [Ref]	1.47 (0.71-3.04)	1 [Ref]	3.18 (1.80-5.62)
Model 3 ^c	1 [Ref]	1.47 (1.25-1.73)	1 [Ref]	1.72 (1.38-2.15)	1 [Ref]	1.25 (1.00-1.55)	1 [Ref]	1.47 (0.71-3.03)	1 [Ref]	3.01 (1.69-5.37)
CVD mortality										
Deaths, No./total No.	175/3908	92/939	214/4285	48/511	212/4355	55/482	257/4777	9/46	262/4824	3/12
Model 1 ^a	1 [Ref]	1.60 (1.28-2.00)	1 [Ref]	2.08 (1.49-2.91)	1 [Ref]	1.40 (1.00-1.97)	1 [Ref]	1.03 (0.49-2.14)	1 [Ref]	2.98 (2.74-13.0)
Model 2 ^b	1 [Ref]	1.57 (1.20-2.04)	1 [Ref]	1.85 (1.18-2.90)	1 [Ref]	1.43 (0.99-2.05)	1 [Ref]	1.36 (0.63-2.92)	1 [Ref]	4.19 (1.75-10.0)
Model 3 ^c	1 [Ref]	1.53 (1.20-1.95)	1 [Ref]	1.88 (1.23-2.86)	1 [Ref]	1.38 (0.95-2.01)	1 [Ref]	1.21 (0.54-2.74)	1 [Ref]	4.29 (1.79-10.3)
Cancer mortality										
Deaths, No./total No.	185/3908	61/939	211/4285	27/511	212/4355	34/482	240/4777	5/46	243/4824	1/11
Model 1 ^a	1 [Ref]	1.20 (0.85-1.69)	1 [Ref]	1.17 (0.69-1.96)	1 [Ref]	1.16 (0.72-1.88)	1 [Ref]	0.89 (0.43-1.82)	1 [Ref]	N.A.
Model 2 ^b	1 [Ref]	1.21 (0.77-1.91)	1 [Ref]	0.98 (0.50-1.90)	1 [Ref]	1.38 (0.81-2.35)	1 [Ref]	0.61 (0.13-2.85)	1 [Ref]	N.A.
Model 3 ^c	1 [Ref]	1.22 (0.74-2.01)	1 [Ref]	0.96 (0.47-1.94)	1 [Ref]	1.39 (0.78-2.47)	1 [Ref]	0.62 (0.13-2.91)	1 [Ref]	N.A.
Other mortality										
Deaths, No./total No.	319/3908	139/939	372/4285	76/511	387/4355	68/482	435/4777	15/46	451/4824	5/12
Model 1 ^a	1 [Ref]	1.63 (1.31-2.02)	1 [Ref]	2.00 (1.46-2.75)	1 [Ref]	1.27 (0.94-1.72)	1 [Ref]	1.40 (0.82-2.39)	1 [Ref]	3.71 (1.48-9.32)
Model 2 ^b	1 [Ref]	1.66 (1.23-2.24)	1 [Ref]	2.22 (1.57-3.14)	1 [Ref]	1.18 (0.82-1.69)	1 [Ref]	1.85 (0.72-4.80)	1 [Ref]	3.14 (1.26-7.82)
Model 3 ^c	1 [Ref]	1.59 (1.19-2.12)	1 [Ref]	2.10 (1.49-2.95)	1 [Ref]	1.12 (0.80-1.58)	1 [Ref]	1.94 (0.78-4.86)	1 [Ref]	2.78 (1.06-7.29)

Abbreviation: AVN, arteriovenous nicking; CI, confidence interval; CVD, cardiovascular disease; FAN, focal arteriolar narrowing;

Ref, reference.

^a Adjusted for age (continuous), sex (male or female), and race (non-Hispanic White, non-Hispanic Black, Mexican American, or other).

^b Further adjusted for educational level (<high school, high school, or $\geq$ some college), marital status (married/living with partner, or widowed/divorced/separated/never married), family income level (IPR <1.3, 1.3-3.5, or $\geq$ 3.5), body mass index (calculated as weight in kilograms divided by height in meters squared: <25.0, 25.0-29.9, or $\geq$ 30.0), smoking status (never, past, or current), alcohol consumption (never, former, or current).

^c Further adjusted for general health condition (excellent to good, or fair/poor), diabetes (yes or no), hypertension (yes or no), hypercholesteremia (yes or no), histories of congestive heart failure (yes or no), coronary heart disease (yes or no), angina (yes or no), heart attack (yes or no), and stroke (yes or no).