

eTable 1. Association of Retinal Microvascular Abnormality and its Subtypes with All-Cause and Cause-Specific Mortality
After Excluding Participants With Less Than 2 Years of Follow-up

	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.	899/4417	431/1200	1053/4872	243/678	1101/4993	223/611	1279/5530	37/57	1311/5589	13/17
Model 1 ^a	1 [Ref]	1.43 (1.28-1.61)	1 [Ref]	1.72 (1.43-2.07)	1 [Ref]	1.18 (1.02-1.38)	1 [Ref]	1.17 (0.83-1.64)	1 [Ref]	2.75 (1.51-5.01)
Model 2 ^b	1 [Ref]	1.45 (1.22-1.71)	1 [Ref]	1.71 (1.39-2.10)	1 [Ref]	1.20 (0.95-1.51)	1 [Ref]	1.31 (0.76-2.26)	1 [Ref]	1.92 (1.25-2.93)
Model 3 ^c	1 [Ref]	1.27 (1.08-1.50)	1 [Ref]	1.35 (1.08-1.69)	1 [Ref]	1.15 (0.91-1.46)	1 [Ref]	1.37 (0.87-2.16)	1 [Ref]	1.58 (0.74-3.35)
CVD mortality										
Deaths, No./total No.	250/4417	149/1200	303/4872	87/678	318/4993	79/611	383/5530	11/57	392/5589	5/17
Model 1 ^a	1 [Ref]	1.65 (1.33-2.04)	1 [Ref]	2.17 (1.65-2.86)	1 [Ref]	1.29 (0.97-1.73)	1 [Ref]	0.85 (0.43-1.67)	1 [Ref]	3.01 (1.32-6.87)
Model 2 ^b	1 [Ref]	1.55 (1.20-1.99)	1 [Ref]	1.83 (1.32-2.53)	1 [Ref]	1.33 (0.95-1.85)	1 [Ref]	1.05 (0.49-2.25)	1 [Ref]	2.49 (1.10-5.65)
Model 3 ^c	1 [Ref]	1.32 (1.01-1.71)	1 [Ref]	1.43 (1.00-2.06)	1 [Ref]	1.21 (0.83-1.77)	1 [Ref]	0.99 (0.46-2.16)	1 [Ref]	2.11 (0.58-7.62)
Cancer mortality										
Deaths, No./total No.	222/4417	84/1200	256/4872	39/678	257/4993	49/611	302/5530	3/57	54/5589	4/17
Model 1 ^a	1 [Ref]	1.09 (0.84-1.41)	1 [Ref]	0.96 (0.65-1.42)	1 [Ref]	1.11 (0.79-1.57)	1 [Ref]	0.42 (0.13-1.38)	1 [Ref]	5.00 (1.28-19.5)
Model 2 ^b	1 [Ref]	1.09 (0.78-1.52)	1 [Ref]	0.82 (0.50-1.34)	1 [Ref]	1.32 (0.87-2.00)	1 [Ref]	0.19 (0.03-1.27)	1 [Ref]	2.20 (0.65-7.45)
Model 3 ^c	1 [Ref]	1.01 (0.67-1.53)	1 [Ref]	0.73 (0.41-1.30)	1 [Ref]	1.27 (0.81-1.99)	1 [Ref]	0.19 (0.03-1.33)	1 [Ref]	2.02 (0.47-8.64)
Other mortality										
Deaths, No./total No.	427/4417	198/1200	494/4872	117/678	526/4993	95/611	594/5530	23/57	620/5589	4/17
Model 1 ^a	1 [Ref]	1.47 (1.22-1.79)	1 [Ref]	1.83 (1.46-2.28)	1 [Ref]	1.14 (0.84-1.56)	1 [Ref]	1.63 (1.07-2.47)	1 [Ref]	1.63 (0.60-4.48)
Model 2 ^b	1 [Ref]	1.56 (1.18-2.05)	1 [Ref]	2.08 (1.56-2.77)	1 [Ref]	1.08 (0.74-1.58)	1 [Ref]	1.93 (0.91-4.10)	1 [Ref]	1.41 (0.50-4.01)
Model 3 ^c	1 [Ref]	1.39 (1.06-1.81)	1 [Ref]	1.62 (1.19-2.20)	1 [Ref]	1.06 (0.76-1.49)	1 [Ref]	2.26 (1.18-4.33)	1 [Ref]	1.22 (0.40-3.75)

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).