

Supplementary Table 5. Quartiles of WC and BMI variability measures and risk of retinopathy after excluding those who developed retinopathic event in the first year and those who had serious adverse events in first 18 months of the study

Variable	Events	Incidence rate/ 10 person-yr	Model 1		Model 2 ³	
			HR (95% CI)	P value	HR (95% CI)	P value
WC (cVIM)						
Q1	453	0.8	Ref		Ref	
Q2	494	0.8	0.98 (0.85–1.13)	0.775	0.95 (0.82–1.11)	0.540
Q3	525	0.9	1.02 (0.84–1.23)	0.866	1.00 (0.82–1.21)	0.965
Q4	545	0.9	1.02 (0.79–1.33)	0.862	0.99 (0.76–1.28)	0.917
WC (ASV)						
Q1	494	0.9	Ref		Ref	
Q2	482	0.8	0.92 (0.80–1.07)	0.281	0.91 (0.78–1.05)	0.188
Q3	539	0.9	0.97 (0.80–1.17)	0.732	0.95 (0.78–1.16)	0.599
Q4	502	0.9	0.91 (0.70–1.18)	0.496	0.90 (0.69–1.18)	0.451
WC (CV)						
Q1	453	0.8	Ref		Ref	
Q2	493	0.8	0.98 (0.85–1.14)	0.812	0.96 (0.82–1.11)	0.559
Q3	530	0.9	1.03 (0.85–1.25)	0.744	1.01 (0.83–1.23)	0.895
Q4	541	0.9	1.02 (0.79–1.33)	0.874	0.98 (0.75–1.28)	0.897
WC (SD)						
Q1	454	0.8	Ref		Ref	
Q2	507	0.9	1.01 (0.87–1.17)	0.891	1.00 (0.86–1.16)	0.988
Q3	508	0.6	0.95 (0.78–1.15)	0.603	0.95 (0.78–1.16)	0.643
Q4	548	0.9	0.98 (0.76–1.27)	0.894	0.97 (0.75–1.27)	0.831
BMI (cVIM)						
Q1	431	0.8	Ref		Ref	
Q2	501	0.9	1.13 (0.97–1.31)	0.108	1.13 (0.97–1.31)	0.111
Q3	550	0.9	1.22 (1.00–1.48)	0.049	1.20 (0.98–1.46)	0.078
Q4	535	0.9	1.13 (0.87–1.48)	0.352	1.08 (0.82–1.41)	0.577
BMI (ASV)						
Q1	468	0.8	Ref		Ref	
Q2	522	0.9	1.10 (0.95–1.27)	0.218	1.12 (0.96–1.30)	0.144
Q3	540	0.9	1.09 (0.90–1.33)	0.370	1.10 (0.90–1.35)	0.349
Q4	487	0.8	0.98 (0.75–1.27)	0.868	1.00 (0.76–1.31)	0.987
BMI (CV)						
Q1	427	0.7	Ref		Ref	
Q2	508	0.9	1.16 (1.00–1.35)	0.051	1.18 (1.01–1.37)	0.033
Q3	550	1.0	1.26 (1.03–1.54)	0.021	1.25 (1.02–1.52)	0.031
Q4	532	0.9	1.16 (0.89–1.52)	0.261	1.14 (0.87–1.49)	0.355
BMI (SD)						
Q1	416	0.7	Ref		Ref	
Q2	555	1.0	1.33 (1.15–1.54)	<0.001	1.34 (1.16–1.56)	<0.001
Q3	513	0.9	1.18 (0.97–1.45)	0.097	1.20 (0.98–1.48)	0.077
Q4	533	0.9	1.22 (0.94–1.59)	0.140	1.24 (0.95–1.64)	0.119

Model 1: unadjusted model; Model 2³: Adjusted for age, sex, race, duration of diabetes, allocation to glycemia treatment arm, blood pressure (BP) vs. lipid treatment arm, systolic BP, diastolic BP, low density lipoprotein, high density lipoprotein, glycosylated hemoglobin, insulin use, and baseline BMI (or WC).

WC, waist circumference; BMI, body mass index; HR, hazard ratio; CI, confidence interval; cVIM, corrected variability independent of mean; ASV, average successive variability; CV, coefficient of variation; SD, standard deviation.