

Table S3. Modifiable risk factors for non-proliferate diabetic retinopathy

Exposure	SNPs	OR (95% CI)	SE	<i>p</i> value
Body mass index (BMI)				
Inverse variance weighted	432	1.48 (1.19 to 1.83)	0.11	0
MR Egger	432	1.74 (0.97 to 3.13)	0.3	0.066
Weighted median	432	1.69 (1.24 to 2.32)	0.16	0.001
Simple mode	432	0.68 (0.25 to 1.86)	0.52	0.454
Weighted mode	432	2.11 (1.16 to 3.84)	0.31	0.015
Waist circumference				
Inverse variance weighted	351	1.87 (1.43 to 2.47)	0.14	0
MR Egger	351	2.73 (1.25 to 5.96)	0.4	0.012
Weighted median	351	2.29 (1.50 to 3.49)	0.21	0
Simple mode	351	1.90 (0.53 to 6.86)	0.65	0.327
Weighted mode	351	2.45 (1.11 to 5.42)	0.41	0.028
Whole body fat mass				
Inverse variance weighted	412	1.50 (1.21 to 1.85)	0.11	0
MR Egger	412	1.94 (1.07 to 3.51)	0.3	0.03
Weighted median	412	1.61 (1.16 to 2.24)	0.17	0.004
Simple mode	412	1.75 (0.64 to 4.73)	0.51	0.273
Weighted mode	412	2.09 (1.10 to 3.98)	0.33	0.026
Trunk fat mass				
Inverse variance weighted	395	1.46 (1.18 to 1.81)	0.11	0
MR Egger	395	1.80 (0.99 to 3.26)	0.3	0.053
Weighted median	395	1.41 (1.03 to 1.94)	0.16	0.034
Simple mode	395	1.07 (0.39 to 2.92)	0.51	0.903
Weighted mode	395	1.71 (0.83 to 3.52)	0.37	0.149
Arm fat mass (right)				
Inverse variance weighted	409	1.59 (1.29 to 1.97)	0.11	0
MR Egger	409	2.06 (1.15 to 3.71)	0.3	0.016
Weighted median	409	1.53 (1.08 to 2.17)	0.18	0.016
Simple mode	409	1.17 (0.41 to 3.31)	0.53	0.769
Weighted mode	409	2.14 (1.07 to 4.28)	0.35	0.032
Leg fat mass (right)				
Inverse variance weighted	401	1.81 (1.38 to 2.36)	0.14	0
MR Egger	401	2.56 (1.19 to 5.49)	0.39	0.016
Weighted median	401	2.06 (1.33 to 3.18)	0.22	0.001
Simple mode	401	1.42 (0.36 to 5.54)	0.7	0.616
Weighted mode	401	2.66 (1.10 to 6.45)	0.45	0.031
Overall health rating				
Inverse variance weighted	105	4.97 (1.01 to 24.45)	0.81	0.048
Weighted median	105	1.38 (0.50 to 3.85)	0.52	0.537
Simple mode	105	0.58 (0.04 to 9.36)	1.42	0.705
Weighted mode	105	0.79 (0.06 to 10.96)	1.34	0.862

Ischemic stroke				
Inverse variance weighted	18	1.01 (0.67 to 1.54)	0.21	0.949
MR Egger	18	3.04 (0.33 to 28.21)	1.14	0.343
Weighted median	18	0.77 (0.51 to 1.18)	0.21	0.23
Simple mode	18	0.69 (0.35 to 1.36)	0.35	0.298
Weighted mode	18	0.68 (0.36 to 1.27)	0.32	0.242
Coro ry heart disease				
Inverse variance weighted	25	0.99 (0.83 to 1.18)	0.09	0.907
MR Egger	25	1.19 (0.75 to 1.88)	0.23	0.466
Weighted median	25	1.01 (0.82 to 1.26)	0.11	0.906
Simple mode	25	1.08 (0.72 to 1.62)	0.21	0.722
Weighted mode	25	1.08 (0.79 to 1.48)	0.16	0.643
Systolic blood pressure				
Inverse variance weighted	437	1.01 (1.00 to 1.02)	0.01	0.12
MR Egger	437	0.99 (0.96 to 1.03)	0.02	0.704
Weighted median	437	1.01 (0.99 to 1.03)	0.01	0.174
Simple mode	437	1.03 (0.98 to 1.09)	0.03	0.273
Weighted mode	437	1.01 (0.98 to 1.05)	0.02	0.49
Hypertension				
Inverse variance weighted	62	1.02 (0.89 to 1.17)	0.07	0.777
MR Egger	62	0.95 (0.62 to 1.47)	0.22	0.832
Weighted median	62	0.95 (0.79 to 1.14)	0.1	0.562
Simple mode	62	1.03 (0.68 to 1.55)	0.21	0.894
Weighted mode	62	0.92 (0.66 to 1.28)	0.17	0.615
Chronic kidney disease				
Inverse variance weighted	4	0.87 (0.66 to 1.15)	0.14	0.332
MR Egger	4	0.66 (0.23 to 1.91)	0.54	0.528
Weighted median	4	0.91 (0.68 to 1.23)	0.15	0.552
Simple mode	4	1.01 (0.65 to 1.59)	0.23	0.959
Weighted mode	4	0.93 (0.63 to 1.36)	0.19	0.729
Sweets intake				
Inverse variance weighted	2	0.33 (0.03 to 3.31)	1.17	0.347
Alcohol consumption				
Inverse variance weighted	4	4.32 (0.88 to 21.14)	0.81	0.071
Weighted median	4	4.25 (0.67 to 27.08)	0.94	0.126
Simple mode	4	4.78 (0.69 to 32.99)	0.99	0.211
Weighted mode	4	4.21 (0.80 to 22.22)	0.85	0.189
Inverse variance weighted	38	2.56 (1.20 to 5.47)	0.39	0.015
Coffee intake				
MR Egger	38	5.79 (1.25 to 26.77)	0.78	0.031
Weighted median	38	2.99 (0.99 to 9.04)	0.56	0.053
Simple mode	38	2.56 (0.29 to 22.90)	1.12	0.405
Weighted mode	38	3.25 (1.01 to 10.46)	0.6	0.056

Age of smoking initiation				
Inverse variance weighted	7	0.54 (0.10 to 2.92)	0.87	0.471
MR Egger	7	0.08 (0.00 to 18.76)	2.81	0.401
Weighted median	7	0.87 (0.12 to 6.09)	0.99	0.886
Simple mode	7	0.92 (0.05 to 16.90)	1.49	0.956
Weighted mode	7	1.00 (0.06 to 17.14)	1.45	0.999
Nap during day				
Inverse variance weighted	86	1.31 (0.51 to 3.37)	0.48	0.575
Weighted median	86	2.49 (0.68 to 9.10)	0.66	0.167
Insomnia				
Inverse variance weighted	39	0.83 (0.27 to 2.52)	0.57	0.741
Weighted median	39	0.71 (0.13 to 3.78)	0.85	0.691
Simple mode	39	0.22 (0.01 to 6.10)	1.71	0.374
Weighted mode	39	0.52 (0.05 to 5.64)	1.22	0.593
Snoring				
Inverse variance weighted	41	1.07 (0.13 to 8.63)	1.06	0.948
Weighted median	41	0.80 (0.07 to 9.05)	1.24	0.858
Weighted mode	41	0.10 (0.00 to 16.10)	2.57	0.385
Moderate physical activity				
Inverse variance weighted	18	0.57 (0.23 to 1.45)	0.48	0.24
MR Egger	18	0.00 (0.00 to 0.58)	2.66	0.046
Weighted median	18	0.58 (0.27 to 1.26)	0.39	0.168
Simple mode	18	0.50 (0.11 to 2.33)	0.78	0.393
Weighted mode	18	0.46 (0.10 to 2.10)	0.78	0.327
College or University degree				
Inverse variance weighted	244	0.35 (0.18 to 0.68)	0.34	0.002
MR Egger	244	0.11 (0.01 to 1.58)	1.37	0.105
Weighted median	244	0.29 (0.11 to 0.74)	0.47	0.009
Simple mode	244	0.21 (0.01 to 3.55)	1.45	0.279
Weighted mode	244	0.09 (0.01 to 1.09)	1.3	0.059
Triglycerides				
Inverse variance weighted	284	1.12 (0.93 to 1.33)	0.09	0.23
MR Egger	284	0.90 (0.69 to 1.17)	0.13	0.429
Weighted median	284	0.88 (0.68 to 1.12)	0.13	0.296
Simple mode	284	1.12 (0.68 to 1.84)	0.26	0.667
Weighted mode	284	0.88 (0.71 to 1.10)	0.11	0.27
LDL cholesterol				
Inverse variance weighted	158	0.79 (0.57 to 1.08)	0.16	0.142
MR Egger	158	0.96 (0.60 to 1.53)	0.24	0.865
Weighted median	158	0.98 (0.73 to 1.32)	0.15	0.894
Simple mode	158	0.69 (0.37 to 1.29)	0.32	0.249
Weighted mode	158	0.97 (0.74 to 1.28)	0.14	0.832
HDL cholesterol				

Inverse variance weighted	326	0.86 (0.73 to 1.02)	0.09	0.088
MR Egger	326	1.02 (0.79 to 1.32)	0.13	0.875
Weighted median	326	0.92 (0.71 to 1.21)	0.14	0.567
Simple mode	326	0.91 (0.54 to 1.55)	0.27	0.737
Weighted mode	326	0.91 (0.72 to 1.16)	0.12	0.45
C-reactive protein level				
Inverse variance weighted	55	1.11 (0.64 to 1.91)	0.28	0.718
MR Egger	55	0.85 (0.38 to 1.90)	0.41	0.701
Weighted median	55	0.88 (0.69 to 1.13)	0.12	0.315
Simple mode	55	0.88 (0.53 to 1.48)	0.26	0.638
Weighted mode	55	0.88 (0.73 to 1.07)	0.1	0.207