

Table S2. Modifiable risk factors for proliferate diabetic retinopathy

Exposure	SNPs	OR (95% CI)	SE	<i>p</i> value
Body mass index (BMI)				
Inverse variance weighted	432	1.43 (1.28 to 1.60)	0.06	0
MR Egger	432	1.57 (1.16 to 2.12)	0.15	0.004
Weighted median	432	1.61 (1.34 to 1.92)	0.09	0
Simple mode	432	1.80 (1.06 to 3.07)	0.27	0.031
Weighted mode	432	1.80 (1.33 to 2.43)	0.15	0
Waist circumference				
Inverse variance weighted	351	1.65 (1.44 to 1.90)	0.07	0
MR Egger	351	1.82 (1.22 to 2.71)	0.2	0.004
Weighted median	351	1.88 (1.50 to 2.35)	0.11	0
Simple mode	351	2.21 (1.13 to 4.35)	0.34	0.022
Weighted mode	351	2.14 (1.42 to 3.22)	0.21	0
Whole body fat mass				
Inverse variance weighted	412	1.44 (1.28 to 1.62)	0.06	0
MR Egger	412	1.41 (1.01 to 1.97)	0.17	0.043
Weighted median	412	1.60 (1.34 to 1.90)	0.09	0
Simple mode	412	2.22 (1.28 to 3.87)	0.28	0.005
Weighted mode	412	1.96 (1.39 to 2.77)	0.18	0
Trunk fat mass				
Inverse variance weighted	395	1.38 (1.23 to 1.54)	0.06	0
MR Egger	395	1.35 (0.98 to 1.86)	0.16	0.064
Weighted median	395	1.55 (1.31 to 1.83)	0.08	0
Simple mode	395	2.20 (1.28 to 3.79)	0.28	0.005
Weighted mode	395	2.01 (1.41 to 2.87)	0.18	0
Arm fat mass (right)				
Inverse variance weighted	409	1.42 (1.27 to 1.60)	0.06	0
MR Egger	409	1.51 (1.09 to 2.09)	0.17	0.014
Weighted median	409	1.56 (1.31 to 1.85)	0.09	0
Simple mode	409	1.66 (0.95 to 2.89)	0.28	0.076
Weighted mode	409	1.73 (1.23 to 2.42)	0.17	0.002
Leg fat mass (right)				
Inverse variance weighted	401	1.54 (1.33 to 1.79)	0.08	0
MR Egger	401	1.62 (1.06 to 2.48)	0.22	0.027
Weighted median	401	1.72 (1.37 to 2.14)	0.11	0
Simple mode	401	1.55 (0.78 to 3.09)	0.35	0.211
Weighted mode	401	2.10 (1.36 to 3.23)	0.22	0.001
Overall health rating				
Inverse variance weighted	105	3.54 (1.41 to 8.85)	0.47	0.007
Weighted median	105	1.51 (0.90 to 2.52)	0.26	0.117
Simple mode	105	2.02 (0.54 to 7.60)	0.68	0.303
Weighted mode	105	1.83 (0.50 to 6.63)	0.66	0.36

Ischemic stroke					
Inverse variance weighted	18	1.22 (1.05 to 1.42)	0.08	0.01	
MR Egger	18	1.66 (0.73 to 3.75)	0.42	0.242	
Weighted median	18	1.16 (0.96 to 1.40)	0.1	0.12	
Simple mode	18	1.13 (0.80 to 1.59)	0.18	0.507	
Weighted mode	18	1.17 (0.79 to 1.72)	0.2	0.439	
Coronary heart disease					
Inverse variance weighted	25	1.02 (0.95 to 1.10)	0.04	0.599	
MR Egger	25	0.99 (0.83 to 1.20)	0.1	0.958	
Weighted median	25	0.99 (0.89 to 1.09)	0.05	0.802	
Simple mode	25	0.99 (0.82 to 1.18)	0.09	0.887	
Weighted mode	25	0.99 (0.84 to 1.17)	0.08	0.878	
Systolic blood pressure					
Inverse variance weighted	437	1.01 (1.00 to 1.02)	0	0.001	
MR Egger	437	1.00 (0.99 to 1.02)	0.01	0.796	
Weighted median	437	1.01 (1.00 to 1.02)	0	0.09	
Simple mode	437	1.01 (0.98 to 1.04)	0.02	0.541	
Weighted mode	437	1.01 (0.98 to 1.03)	0.01	0.623	
Hypertension					
Inverse variance weighted	62	1.09 (1.01 to 1.17)	0.04	0.019	
MR Egger	62	0.95 (0.76 to 1.20)	0.12	0.691	
Weighted median	62	1.08 (0.98 to 1.19)	0.05	0.139	
Simple mode	62	1.11 (0.86 to 1.43)	0.13	0.416	
Weighted mode	62	0.97 (0.80 to 1.19)	0.1	0.8	
Chronic kidney disease					
Inverse variance weighted	4	1.08 (0.92 to 1.25)	0.08	0.34	
MR Egger	4	0.78 (0.51 to 1.20)	0.22	0.375	
Weighted median	4	1.02 (0.88 to 1.18)	0.07	0.788	
Simple mode	4	1.01 (0.83 to 1.23)	0.1	0.919	
Weighted mode	4	1.01 (0.86 to 1.18)	0.08	0.912	
Alcohol consumption					
Inverse variance weighted	4	1.76 (0.79 to 3.88)	0.41	0.165	
Weighted median	4	1.99 (0.83 to 4.74)	0.44	0.122	
Simple mode	4	1.71 (0.56 to 5.19)	0.57	0.414	
Weighted mode	4	2.03 (0.80 to 5.12)	0.47	0.232	
Sweets intake					
Inverse variance weighted	2	0.54 (0.17 to 1.71)	0.59	0.293	
Coffee intake					
Inverse variance weighted	38	1.75 (1.20 to 2.56)	0.19	0.004	
MR Egger	38	2.07 (0.96 to 4.45)	0.39	0.07	
Weighted median	38	1.68 (0.98 to 2.89)	0.28	0.059	
Simple mode	38	1.55 (0.53 to 4.55)	0.55	0.431	
Weighted mode	38	1.61 (0.90 to 2.90)	0.3	0.12	

Age of smoking initiation

Inverse variance weighted	7	1.12 (0.55 to 2.26)	0.36	0.757
MR Egger	7	0.44 (0.05 to 4.13)	1.15	0.502
Weighted median	7	1.31 (0.53 to 3.27)	0.47	0.559
Simple mode	7	2.06 (0.43 to 9.84)	0.8	0.399
Weighted mode	7	2.19 (0.50 to 9.50)	0.75	0.336

Nap during day

Inverse variance weighted	86	1.23 (0.73 to 2.09)	0.27	0.437
Weighted median	86	1.02 (0.53 to 2.00)	0.34	0.942
Simple mode	86	0.81 (0.16 to 4.17)	0.83	0.805
Weighted mode	86	0.68 (0.19 to 2.40)	0.64	0.553

Insomnia

Inverse variance weighted	39	1.11 (0.63 to 1.95)	0.29	0.728
MR Egger	39	1.63 (0.31 to 8.68)	0.85	0.571
Weighted median	39	1.42 (0.66 to 3.07)	0.39	0.371
Simple mode	39	1.52 (0.32 to 7.13)	0.79	0.601
Weighted mode	39	1.72 (0.55 to 5.41)	0.58	0.357

Snoring

Inverse variance weighted	41	1.00 (0.36 to 2.78)	0.52	0.997
Weighted median	41	0.96 (0.27 to 3.34)	0.64	0.944
Weighted mode	41	0.80 (0.07 to 9.77)	1.28	0.863

Moderate physical activity

Inverse variance weighted	18	0.66 (0.39 to 1.13)	0.27	0.129
MR Egger	18	0.03 (0.00 to 0.53)	1.52	0.03
Weighted median	18	0.81 (0.55 to 1.18)	0.2	0.272
Simple mode	18	0.79 (0.43 to 1.44)	0.31	0.448
Weighted mode	18	0.75 (0.43 to 1.31)	0.29	0.325

College or University degree

Inverse variance weighted	244	0.57 (0.38 to 0.84)	0.2	0.004
MR Egger	244	0.30 (0.06 to 1.44)	0.8	0.135
Weighted median	244	0.57 (0.35 to 0.93)	0.25	0.025
Simple mode	244	0.27 (0.06 to 1.18)	0.75	0.084
Weighted mode	244	0.25 (0.06 to 1.03)	0.72	0.055

Triglycerides

Inverse variance weighted	284	1.15 (1.04 to 1.28)	0.05	0.005
MR Egger	284	0.98 (0.84 to 1.13)	0.07	0.744
Weighted median	284	0.97 (0.85 to 1.12)	0.07	0.683
Simple mode	284	1.11 (0.84 to 1.46)	0.14	0.46
Weighted mode	284	0.95 (0.85 to 1.07)	0.06	0.43

LDL cholesterol

Inverse variance weighted	158	0.88 (0.73 to 1.07)	0.1	0.213
MR Egger	158	0.98 (0.73 to 1.30)	0.15	0.875
Weighted median	158	0.92 (0.79 to 1.08)	0.08	0.33

Simple mode	158	0.81 (0.57 to 1.15)	0.18	0.242
Weighted mode	158	0.95 (0.83 to 1.10)	0.07	0.503
HDL cholesterol				
Inverse variance weighted	326	0.84 (0.77 to 0.92)	0.04	0
MR Egger	326	0.96 (0.84 to 1.10)	0.07	0.59
Weighted median	326	0.93 (0.81 to 1.06)	0.07	0.273
Simple mode	326	0.75 (0.56 to 1.00)	0.15	0.055
Weighted mode	326	0.88 (0.77 to 1.00)	0.07	0.054
C-reactive protein level				
Inverse variance weighted	55	1.05 (0.75 to 1.49)	0.18	0.766
MR Egger	55	0.86 (0.52 to 1.42)	0.25	0.563
Weighted median	55	0.92 (0.81 to 1.05)	0.06	0.202
Simple mode	55	0.92 (0.71 to 1.18)	0.13	0.499
Weighted mode	55	0.92 (0.83 to 1.01)	0.05	0.087