

Supplementary Online Content

Simcoe MJ, Weisschuh N, Wissinger B, Hysi PG, Hammond CJ. Genetic heritability of pigmentary glaucoma and associations with other eye phenotypes. *JAMA Ophthalmol*. Published online January 30, 2020. doi:10.1001/jamaophthalmol.2019.5961

eFigure 1. Plot of the first and second principal components.

eFigure 2. Plot of the first and third principal components.

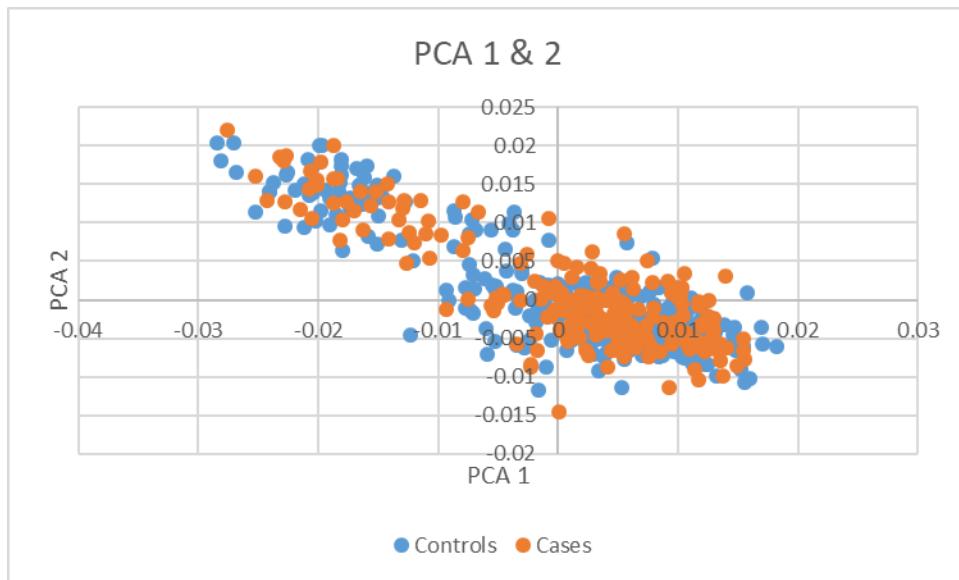
eFigure 3. Plot of the second and third principal components.

eTable 1. Mendelian Randomisation results for eye colour and pigmentary glaucoma.

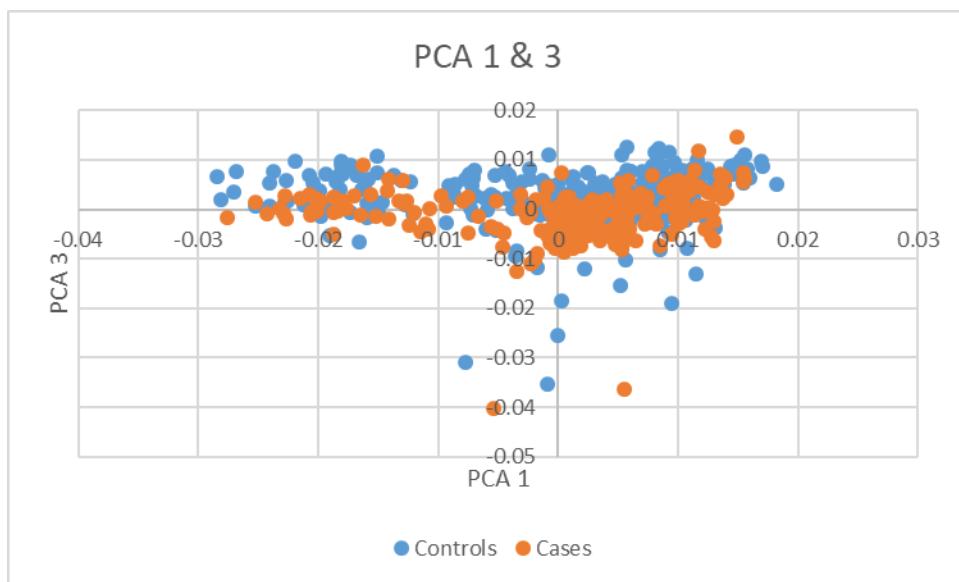
eTable 2. Mendelian Randomisation results for intraocular pressure and pigmentary glaucoma.

This supplementary material has been provided by the authors to give readers additional information about their work.

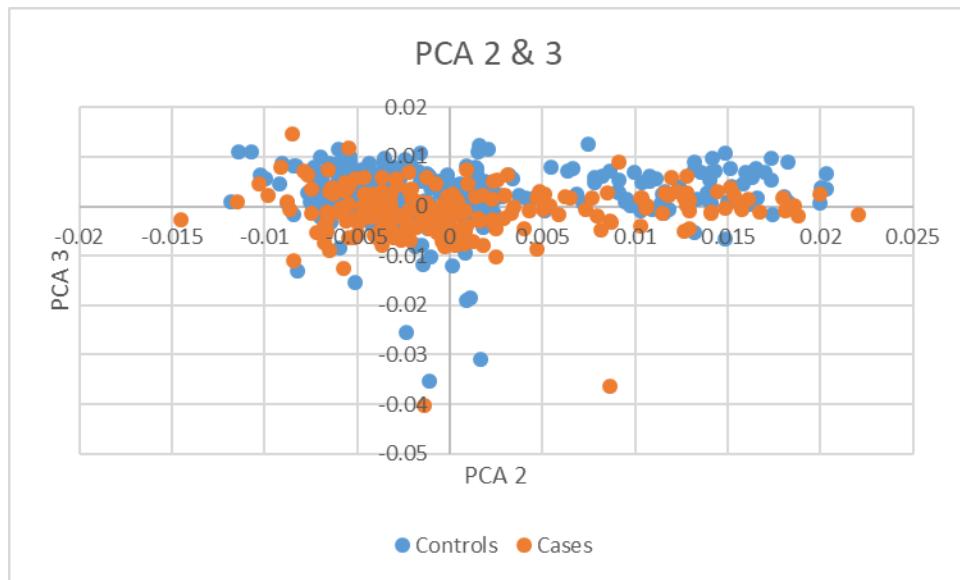
eFigure 1. Plot of the first and second principal components.



eFigure 2. Plot of the first and third principal components.



eFigure 3. Plot of the second and third principal components.



eTable 1. Mendelian Randomisation results for eye colour and pigmentary glaucoma

Method	Estimate	Standard Error	Lower 95% CI	Upper 95% CI	P-Value
Simple median	-0.368	0.929	-2.19	1.453	0.692
Weighted median	-0.539	0.542	-1.601	0.523	0.32
Penalized weighted median	-0.535	0.541	-1.595	0.525	0.323
IVW	-0.585	0.71	-1.978	0.807	0.41
Penalized IVW	-0.585	0.71	-1.978	0.807	0.41
Robust IVW	-0.564	0.267	-1.086	-0.042	0.034
Penalized robust IVW	-0.564	0.267	-1.086	-0.042	0.034
MR-Egger	-1.154	1.01	-3.134	0.826	0.253
(intercept)	0.14	0.175	-0.202	0.483	0.421
Penalized MR-Egger	-1.185	0.988	-3.122	0.751	0.23
(intercept)	0.155	0.172	-0.182	0.491	0.367
Robust MR-Egger	-1.242	0.658	-2.531	0.047	0.059
(intercept)	0.202	0.274	-0.335	0.738	0.461
Penalized robust MR-Egger	-1.254	0.607	-2.443	-0.065	0.039
(intercept)	0.207	0.25	-0.282	0.696	0.407

eTable 2. Mendelian Randomisation results for intraocular pressure and pigmentary glaucoma

Method	Estimate	Standard Error	Lower 95% CI	Upper 95% CI	P-Value
Simple median	0.284	0.281	-0.266	0.834	0.312
Weighted median	0.493	0.288	-0.072	1.057	0.087
Penalized weighted median	0.503	0.288	-0.062	1.068	0.081
IVW	0.362	0.188	-0.007	0.731	0.055
Penalized IVW	0.362	0.188	-0.007	0.731	0.055
Robust IVW	0.393	0.162	0.076	0.71	0.015
Penalized robust IVW	0.393	0.162	0.076	0.71	0.015
MR-Egger	0.476	0.489	-0.482	1.434	0.33
(intercept)	-0.015	0.06	-0.132	0.102	0.8
Penalized MR-Egger	0.476	0.489	-0.482	1.434	0.33
(intercept)	-0.015	0.06	-0.132	0.102	0.8
Robust MR-Egger	0.479	0.371	-0.249	1.206	0.197
(intercept)	-0.012	0.055	-0.119	0.096	0.83
Penalized robust MR-Egger	0.479	0.371	-0.249	1.206	0.197
(intercept)	-0.012	0.055	-0.119	0.096	0.83