

Supplementary Table 2. Summary of GRS results for additional glaucoma phenotypes among POAG cases in the NEIGHBORHOOD consortium.

A. Age at diagnosis (in years)

GRS	GRS Percentile	Mean (SD) Top GRS Percentile	Mean (SD) Bottom GRS Percentile	p-value
<i>TXNRD2</i>	1%	63.1 (14.1) (n=25)	67.9 (14.0) (n=22)	0.24
	5%	66.0 (12.8) (n=119)	64.8 (14.2) (n=121)	0.47
	10%	64.6 (12.7) (n=242)	64.4 (14.1) (n=241)	0.90
<i>ME3</i>	1%	65.3 (14.4) (n=22)	65.1 (17.0) (n=25)	0.96
	5%	63.6 (13.6) (n=124)	65.6 (15.4) (n=124)	0.28
	10%	64.0 (13.6) (n=250)	64.8 (15.1) (n=245)	0.57
<i>TXNRD2 + ME3</i>	1%	65.3 (12.2) (n=24)	61.5 (17.2) (n=24)	0.38
	5%	63.2 (13.7) (n=126)	65.2 (14.6) (n=123)	0.26
	10%	63.8 (13.4) (n=253)	65.6 (14.1) (n=246)	0.15

B. Maximal cup-to-disc ratio

GRS	GRS Percentile	Mean (SD) Top GRS Percentile	Mean (SD) Bottom GRS Percentile	p-value
<i>TXNRD2</i>	1%	0.78 (0.15) (n=24)	0.79 (0.14) (n=24)	0.72
	5%	0.80 (0.16) (n=115)	0.80 (0.16) (n=115)	0.87
	10%	0.80 (0.15) (n=232)	0.81 (0.15) (n=224)	0.65
<i>ME3</i>	1%	0.82 (0.10) (n=20)	0.76 (0.14) (n=22)	0.15
	5%	0.83 (0.13) (n=115)	0.80 (0.14) (n=105)	0.08
	10%	0.83 (0.13) (n=228)	0.81 (0.14) (n=211)	0.14
<i>TXNRD2 + ME3</i>	1%	0.84 (0.11) (n=21)	0.83 (0.15) (n=22)	0.76
	5%	0.82 (0.14) (n=115)	0.80 (0.14) (n=109)	0.27
	10%	0.83 (0.14) (n=230)	0.80 (0.15) (n=214)	0.05

C. Visual field mean deviation (in dB)

GRS	GRS Percentile	Mean (SD) Top GRS Percentile	Mean (SD) Bottom GRS Percentile	p-value
<i>TXNRD2</i>	1%	-8.3 (6.8) (n=20)	-8.1 (5.3) (n=15)	0.93
	5%	-9.5 (8.3) (n=97)	-8.2 (7.0) (n=95)	0.22
	10%	-9.9 (7.8) (n=192)	-8.8 (6.7) (n=188)	0.14
<i>ME3</i>	1%	-7.0 (6.1) (n=20)	-9.4 (6.6) (n=18)	0.25
	5%	-8.6 (6.7) (n=87)	-8.4 (6.8) (n=100)	0.83
	10%	-8.7 (6.9) (n=182)	-9.6 (7.7) (n=201)	0.26
<i>TXNRD2 + ME3</i>	1%	-7.2 (4.7) (n=16)	-7.9 (6.4) (n=20)	0.74
	5%	-7.9 (6.4) (n=91)	-8.7 (7.6) (n=89)	0.46
	10%	-8.1 (6.5) (n=179)	-9.1 (7.3) (n=186)	0.17

D. Visual field pattern standard deviation (in dB)

GRS	GRS Percentile	Mean (SD) Top GRS Percentile	Mean (SD) Bottom GRS Percentile	p-value
<i>TXNRD2</i>	1%	6.0 (3.1) (n=18)	5.5 (3.7) (n=13)	0.71
	5%	6.1 (3.0) (n=83)	5.7 (3.2) (n=80)	0.39
	10%	6.3 (3.2) (n=165)	6.3 (3.6) (n=160)	0.86
<i>ME3</i>	1%	5.4 (3.5) (n=18)	7.1 (3.6) (n=16)	0.18
	5%	6.0 (3.5) (n=74)	5.7 (3.2) (n=87)	0.59
	10%	6.2 (3.7) (n=153)	6.0 (3.4) (n=166)	0.61
<i>TXNRD2 + ME3</i>	1%	6.6 (3.3) (n=15)	7.1 (3.6) (n=19)	0.73
	5%	6.1 (3.7) (n=82)	5.8 (3.2) (n=76)	0.67
	10%	5.8 (3.3) (n=154)	6.0 (3.2) (n=157)	0.64

E. Need for glaucoma surgery

GRS	GRS Percentile	Prevalence Top GRS Percentile	Prevalence Bottom GRS Percentile	p-value
<i>TXNRD2</i>	1%	50.0% (n=6)	0% (n=3)	Unable
	5%	27.3% (n=33)	18.2% (n=22)	0.44
	10%	31.3% (n=67)	24.4% (n=41)	0.44
<i>ME3</i>	1%	20.0% (n=5)	12.5% (n=8)	0.72
	5%	29.2% (n=24)	25.0% (n=28)	0.74
	10%	34.6% (n=52)	28.5% (n=49)	0.51
<i>TXNRD2 + ME3</i>	1%	25.0% (n=8)	20.0% (n=5)	0.86
	5%	25.8% (n=31)	22.2% (n=18)	0.78
	10%	37.1% (n=62)	25.6% (n=39)	0.23

POAG=primary open-angle glaucoma; GRS= genetic risk score; SD= standard deviation; dB=decibels