

**Supplementary Table 3. Summary of GRS results for paracentral visual field loss among POAG cases in the NEIGHBORHOOD and PROGRESSA cohorts.**

**A. NEIGHBORHOOD (n=2617 POAG cases)**

<b>GRS</b>	<b>GRS Percentile</b>	<b>Prevalence Top GRS Percentile</b>	<b>Prevalence Bottom GRS Percentile</b>	<b>p-value</b>	<b>Adjusted p-value<sup>1</sup></b>
<i>TXNRD2</i>	1%	18.2% (n=11)	20.0% (n=5)	0.93	0.93
	5%	42.6% (n=47)	36.6% (n=41)	0.57	0.62
	10%	43.2% (n=95)	42.9% (n=77)	0.97	0.97
<i>ME3</i>	1%	72.7% (n=11)	14.3% (n=7)	0.02	0.03
	5%	51.4% (n=37)	44.4% (n=54)	0.52	0.62
	10%	52.5% (n=80)	43.3% (n=90)	0.23	0.69
<i>TXNRD2 + ME3</i>	1%	88.9% (n=9)	33.3% (n=12)	0.01	0.03
	5%	41.3% (n=46)	46.5% (n=43)	0.62	0.62
	10%	46.6% (n=88)	41.9% (n=93)	0.53	0.80

**B. PROGRESSA (n=816 POAG cases and suspects)**

<b>GRS</b>	<b>GRS Percentile</b>	<b>Prevalence Top GRS Percentile</b>	<b>Prevalence Bottom GRS Percentile</b>	<b>p-value</b>	<b>Adjusted p-value<sup>1</sup></b>
<i>TXNRD2</i>	1%	0.0% (n=4)	9.1% (n=11)	1.0	1.0
	5%	9.1% (n=22)	2.2% (n=45)	0.25	0.75
	10%	7.1% (n=56)	2.5% (n=81)	0.23	0.69
<i>ME3</i>	1%	12.5% (n=8)	16.7% (n=12)	1.0	1.0
	5%	3.2% (n=31)	8.8% (n=45)	0.64	0.69
	10%	7.6% (n=66)	6.5% (n=92)	1.0	1.0
<i>TXNRD2 + ME3</i>	1%	12.5% (n=8)	0.0% (n=12)	0.4	1.0
	5%	5.9% (n=34)	6.1% (n=49)	1.0	1.0
	10%	4.8% (n=62)	6.1% (n=82)	1.0	1.0

**C. NEIGHBORHOOD + PROGRESSA combined (n=3433 POAG cases and suspects)**

<b>GRS</b>	<b>GRS Percentile</b>	<b>Prevalence Top GRS Percentile</b>	<b>Prevalence Bottom GRS Percentile</b>	<b>p-value</b>	<b>Adjusted p-value<sup>1</sup></b>
<i>TXNRD2</i>	1%	13.3% (n=15)	12.5% (n=16)	0.95	0.95
	5%	31.9% (n=69)	18.6% (n=86)	0.06	0.18
	10%	29.8% (n=151)	22.2% (n=158)	0.12	0.20
<i>ME3</i>	1%	47.4% (n=19)	15.8% (n=19)	0.04	0.06
	5%	29.4% (n=68)	28.3% (n=99)	0.87	0.87
	10%	32.2% (n=146)	24.7% (n=182)	0.13	0.20
<i>TXNRD2 + ME3</i>	1%	52.9% (n=17)	16.7% (n=24)	0.01	0.03
	5%	26.3% (n=80)	25.0% (n=92)	0.85	0.87
	10%	29.3% (n=150)	25.1% (n=175)	0.40	0.40

<sup>1</sup>Adjustment for multiple comparisons was performed using the False Discovery Rate (FDR) method

POAG= primary open-angle glaucoma; GRS= genetic risk score