

## SUPPLEMENTARY RESOURCES

**Supplementary Table 1: Summary Statistics for PROGRESSA Cohort**

<b>PROGRESSA Summary Statistics</b> <b>(n = 735 eyes / 388 participants)</b>	
<b>Demographic Characteristics</b>	
Age (years)	70.4±8.8
<b>Sex</b>	
Female	420 / 220 [56.7]
Male	315 / 168 [43.3]
<b>Socio-economic Decile</b>	6.4±2.8
<b>Cardiovascular Characteristics</b>	
Systolic Blood Pressure (mmHg)	137.2±20.4
<b>Diabetes</b>	
Yes	107 / 55 [14.2]
No	626 / 333 [85.8]
<b>Ocular Characteristics</b>	
<b>Topical Glaucoma Therapy</b>	
Yes	322 / 170 [43.8]
No	413 / 218 [52.2]
<b>Highest Intraocular Pressure (mmHg)</b>	20.6±5.5
<b>Glaucoma Characterization</b>	
Early Manifest Glaucoma	264 / 142 [36.5]
Suspect	471 / 246 [63.5]
<b>Baseline average macular GCIPL thickness (um)</b>	74.9±8.2

Supplementary Table 1 summarizes the baseline demographic, cardiovascular and ocular characteristics for PROGRESSA study participants. Summary statistics for continuous variables are reflected as mean±standard deviation, and summary statistics for discrete variables are reflected as number (n) of eyes followed by number of participants (n of eyes / n of participants) with proportion of participants for each characteristic displayed in parenthesis. Age and socio-economic decile are represented as per participant summary. Highest intraocular pressure and baseline macular GCIPL thickness are displayed as per eye summary.

**Supplementary Table 2: UK Biobank Summary Statistics**

<b>UK Biobank Summary Statistics (n = 8862 eyes / 6152 participants)</b>	
<b>Demographic Characteristics</b>	
Age (years)	54.9±8.2
Sex	
Female	4985 / 3471 [56.4]
Male	3877 / 2681 [43.6]
<b>Systemic Characteristics</b>	
<b>Hypertension</b>	
Yes	2062 / 1462 [23.7]
No	6800 / 4690 [76.7]
<b>Diabetes</b>	
Yes	263 / 180 [2.9]
No	8599 / 5972 [97.1]
<b>Stroke</b>	
Yes	70 / 52 [0.8]
No	8792 / 6100 [99.2]
<b>Alzheimers Disease (n [%])</b>	
Yes	30 / 23 [0.4]
No	8832 / 6129 [99.6]
<b>IOP (mmHg)</b>	15.3±3.1

Supplementary Table 2 summarizes the baseline demographic, cardiovascular and ocular characteristics for UK Biobank study participants. Summary statistics for continuous variables are reflected as mean±standard deviation, and summary statistics for discrete variables are reflected as number (n) of eyes followed by number of participants (n eyes / n participants) with proportion of participants for each characteristic displayed in parenthesis. Age is represented as per participant summary. Intraocular pressure is displayed as per eye mean intraocular pressure.