

**Table S1.** Baseline demographic and clinical characteristics of eyes and subjects included in the standard automated perimetry sample.

Characteristic	RACE		ETHNICITY		TOTAL
	Black or African American	White	Hispanic or Latino	Not Hispanic or Latino	
<b>SUBJECT-SPECIFIC</b>					
Patients, n (%)	793 (21.8%)	2,850 (78.2%)	1,182 (32.4%)	2,461 (67.6%)	3,643 (100.0%)
Age (years), mean $\pm$ SD	59.0 $\pm$ 12.3	66.6 $\pm$ 11.5	62.7 $\pm$ 11.8	66.1 $\pm$ 12.0	65.0 $\pm$ 12.1
Sex, n (%) Female	485 (61.2%)	1,700 (59.6%)	780 (66.0%)	1,405 (57.1%)	2,185 (60.0%)
<b>EYE-SPECIFIC</b>					
Eyes, n (%)	1,171 (21.7%)	4,231 (78.3%)	1,778 (32.9%)	3,624 (67.1%)	5,402 (100.0%)
CCT ( $\mu$ m), mean $\pm$ SD median (IQR)	523.9 $\pm$ 37.5 524.0 (497.0; 549.0)	543.0 $\pm$ 39.6 541.0 (517.0; 567.7)	539.6 $\pm$ 37.3 539.0 (515.0; 564.2)	537.7 $\pm$ 41.4 536.0 (510.0; 564.5)	538.4 $\pm$ 39.9 537.0 (511.0; 564.5)
Visits (n), mean $\pm$ SD (range)	14.1 $\pm$ 12.1 (1.0; 111.0)	14.0 $\pm$ 13.0 (1.0; 122.0)	14.7 $\pm$ 13.0 (1.0; 110.0)	13.7 $\pm$ 12.7 (1.0; 122.0)	14.0 $\pm$ 12.8 (1.0; 122.0)
Mean IOP (mmHg), mean $\pm$ SD median (IQR)	15.1 $\pm$ 3.2 14.9 (13.0; 17.0)	14.5 $\pm$ 3.2 14.3 (12.4; 16.3)	15.0 $\pm$ 3.0 14.8 (13.0; 16.7)	14.5 $\pm$ 3.3 14.2 (12.3; 16.4)	14.6 $\pm$ 3.2 14.4 (12.6; 16.5)
Peak IOP (mmHg), mean $\pm$ SD median (IQR)	19.6 $\pm$ 5.4 19.0 (16.0; 22.0)	18.6 $\pm$ 5.8 18.0 (15.0; 21.0)	19.3 $\pm$ 5.5 18.7 (16.0; 22.0)	18.6 $\pm$ 5.9 18.0 (15.0; 21.0)	18.8 $\pm$ 5.7 18.0 (15.0; 21.5)
<b>Standard Automated Perimetry</b>					
Follow-up (years), mean $\pm$ SD	10.2 $\pm$ 4.9	9.4 $\pm$ 4.5	9.9 $\pm$ 4.9	9.4 $\pm$ 4.4	9.6 $\pm$ 4.6
Tests (n), mean $\pm$ SD (range)	8.7 $\pm$ 4.3 (5.0; 31.0)	8.7 $\pm$ 4.0 (5.0; 37.0)	8.7 $\pm$ 4.1 (5.0; 37.0)	8.7 $\pm$ 4.1 (5.0; 34.0)	8.7 $\pm$ 4.1 (5.0; 37.0)
Baseline MD (dB), mean $\pm$ SD median (IQR)	-7.30 $\pm$ 6.57 -4.92 (-10.01; -2.81)	-6.14 $\pm$ 5.88 -4.15 (-8.00; -2.17)	-6.51 $\pm$ 6.30 -4.36 (-8.34; -2.30)	-6.34 $\pm$ 5.93 -4.26 (-8.36; -2.34)	-6.40 $\pm$ 6.06 -4.29 (-8.35; -2.31)
Baseline PSD (dB), mean $\pm$ SD median (IQR)	5.58 $\pm$ 3.53 4.17 (2.61; 8.06)	5.39 $\pm$ 3.67 3.71 (2.41; 7.80)	5.31 $\pm$ 3.57 3.71 (2.47; 7.51)	5.49 $\pm$ 3.68 3.85 (2.45; 7.98)	5.43 $\pm$ 3.64 3.80 (2.46; 7.84)
Baseline VFI (dB), mean $\pm$ SD median (IQR)	82.56 $\pm$ 20.13 92.00 (76.00; 96.00)	85.14 $\pm$ 17.88 93.00 (81.00; 96.00)	84.52 $\pm$ 19.11 93.00 (82.00; 96.00)	84.61 $\pm$ 18.07 93.00 (80.00; 96.00)	84.58 $\pm$ 18.42 93.00 (81.00; 96.00)

SD = Standard deviation; CCT = Central corneal thickness; IOP = Intraocular pressure; IQR = Interquartile range; SAP = Standard automated perimetry; MD = Mean deviation; PSD = Pattern standard deviation; VFI = Visual field index.

**Table S2.** Baseline demographic and clinical characteristics of eyes and subjects included in the optical coherence tomography sample.

Characteristic	RACE		ETHNICITY		TOTAL
	Black or African American	White	Hispanic or Latino	Not Hispanic or Latino	
<b>SUBJECT-SPECIFIC</b>					
Patients, n (%)	416 (16.8%)	2,063 (83.2%)	584 (23.6%)	1,895 (76.4%)	2,479 (100.0%)
Age (years), mean $\pm$ SD	63.2 $\pm$ 10.8	67.8 $\pm$ 11.1	62.8 $\pm$ 11.5	68.3 $\pm$ 10.7	67.0 $\pm$ 11.2
Sex, n (%) Female	270 (64.9%)	1,265 (61.3%)	395 (67.6%)	1,140 (60.2%)	1,535 (61.9%)
<b>EYE-SPECIFIC</b>					
Eyes, n (%)	700 (17.0%)	3,425 (83.0%)	1,009 (24.5%)	3,116 (75.5%)	4,125 (100.0%)
CCT ( $\mu$ m), mean $\pm$ SD median (IQR)	525.8 $\pm$ 36.2 526.0 (501.0; 551.0)	548.7 $\pm$ 39.0 548.0 (523.0; 573.0)	544.5 $\pm$ 40.2 543.0 (520.0; 570.8)	544.5 $\pm$ 39.2 544.0 (518.0; 570.0)	544.5 $\pm$ 39.5 544.0 (519.0; 570.0)
Visits (n), mean $\pm$ SD (range)	15.9 $\pm$ 8.3 (1.0; 53.0)	15.6 $\pm$ 8.7 (1.0; 71.0)	14.7 $\pm$ 7.5 (1.0; 55.0)	16.0 $\pm$ 8.9 (1.0; 71.0)	15.7 $\pm$ 8.6 (1.0; 71.0)
Mean IOP (mmHg), mean $\pm$ SD median (IQR)	15.3 $\pm$ 3.1 15.1 (13.0; 17.2)	15.3 $\pm$ 3.1 14.9 (13.1; 17.2)	15.5 $\pm$ 2.9 15.2 (13.5; 17.1)	15.2 $\pm$ 3.1 14.9 (13.0; 17.2)	15.3 $\pm$ 3.1 15.0 (13.1; 17.2)
Peak IOP (mmHg), mean $\pm$ SD median (IQR)	20.1 $\pm$ 4.9 19.0 (17.0; 22.5)	19.6 $\pm$ 4.7 19.0 (16.0; 22.0)	19.9 $\pm$ 4.5 19.0 (17.0; 22.0)	19.6 $\pm$ 4.8 19.0 (16.0; 22.0)	19.7 $\pm$ 4.8 19.0 (16.0; 22.0)
<b>Optical Coherence Tomography</b>					
Follow-up (years), mean $\pm$ SD	7.1 $\pm$ 2.1	6.9 $\pm$ 2.4	6.9 $\pm$ 2.3	7.0 $\pm$ 2.4	7.0 $\pm$ 2.3
Tests (n), mean $\pm$ SD (range)	6.1 $\pm$ 1.3 (5.0; 13.0)	6.2 $\pm$ 1.4 (5.0; 14.0)	5.9 $\pm$ 1.1 (5.0; 11.0)	6.3 $\pm$ 1.5 (5.0; 14.0)	6.2 $\pm$ 1.4 (5.0; 14.0)
Baseline RNFL thickness ( $\mu$ m), mean $\pm$ SD median (IQR)	83.0 $\pm$ 14.1 84.4 (74.0; 93.3)	81.5 $\pm$ 13.0 82.2 (72.9; 90.6)	84.5 $\pm$ 12.8 85.5 (76.0; 92.9)	80.9 $\pm$ 13.2 81.6 (72.0; 90.2)	81.7 $\pm$ 13.2 82.5 (73.1; 91.0)
Exam quality (SS), mean $\pm$ SD median (IQR)	0.8 $\pm$ 0.1 0.8 (0.7; 0.9)	0.8 $\pm$ 0.1 0.8 (0.7; 0.9)	0.8 $\pm$ 0.1 0.8 (0.7; 0.9)	0.8 $\pm$ 0.1 0.8 (0.7; 0.9)	0.8 $\pm$ 0.1 0.8 (0.7; 0.9)

SD = Standard deviation; CCT = Central corneal thickness; IOP = Intraocular pressure; IQR = Interquartile range; OCT = Optical coherence tomography; RNFL = Retinal nerve fiber layer; SS = Signal strength.