

Supplementary materials

Table S1. Baseline characteristics table summarizing key demographic and ocular parameters of the study population, primary stratification by refractive error (myopia, emmetropia, hyperopia), secondary by age group and sex.

Study group	Age	Gender	N	Mean	Std. Deviation	Std. Error Mean
Myopia (M)	6 - 10	Male	2	-23.150	9.192	6.500
		Female	6	-42.317	278.312	113.620
		Male	2	113.500	91.924	65.000
		Female	6	124.833	212.077	86.580
		Male	2	101.000	98.995	70.000
		Female	6	123.333	223.308	91.165
		Male	2	56.750	707.000	0.001
		Female	6	0.545	0.039	0.016
		Male	2	3.410	0.028	0.020
		Female	6	3.970	0.256	0.104
		Male	2	24.545	0.106	0.075
		Female	6	24.635	1.674	0.684
	Male	2	7.820	0.014	0.010	
	Female	6	7.545	0.258	0.105	
	Male	2	3.140	0.014	0.010	
	Female	6	32.650	16.920	6.908	
	11 - 14	Male	17	-36.200	169.808	41.184
		Female	14	-28.957	115.934	30.985
		Male	17	127.353	114.888	27.864
		Female	14	122.500	190.253	50.847

		CRF (mmHg)	Male	17	128.118	137.017	33.231
			Female	14	126.286	122.376	32.706
		CCT (mm)	Male	17	57.035	17.906	4.343
			Female	14	55.750	30.741	8.216
		ACD (mm)	Male	17	38.935	30.313	7.352
			Female	12	39.717	8.922	2.576
		AL (mm)	Male	17	252.694	90.064	21.844
			Female	14	245.293	117.795	31.482
		CR (mm)	Male	17	77.841	26.576	6.446
			Female	14	76.964	39.361	10.520
	AL/CR	Male	17	32.471	7.287	1.767	
		Female	14	31.886	6.573	1.757	
	15 - 18	SE (D)	Male	19	-24.358	150.975	34.636
			Female	18	-33.978	204.670	48.241
		CH (mmHg)	Male	19	117.053	157.920	36.229
			Female	18	111.389	160.115	37.740
		CRF (mmHg)	Male	19	125.737	260.146	59.682
			Female	18	112.500	172.840	40.739
		CCT (mm)	Male	19	58.068	46.878	10.755
			Female	18	53.272	41.366	9.750
ACD (mm)		Male	18	39.650	33.806	7.968	
		Female	18	37.339	34.062	8.029	
AL (mm)	Male	19	250.721	90.827	20.837		
	Female	18	247.356	88.561	20.874		
CR (mm)	Male	19	78.816	21.869	5.017		

			Female	18	76.783	25.063	5.907
			Male	19	31.816	11.182	2.565
		AL/CR	Female	18	32.233	9.016	2.125
			Male	21	-30.800	233.023	50.850
		SE (D)	Female	47	-28.909	218.211	31.829
			Male	21	110.429	116.601	25.444
		CH (mmHg)	Female	47	110.683	150.287	21.922
			Male	21	112.571	173.625	37.888
		CRF (mmHg)	Female	47	108.894	139.038	20.281
			Male	21	55.805	39.301	8.576
		CCT (mm)	Female	47	54.300	33.147	4.835
			Male	19	37.321	27.038	6.203
		ACD (mm)	Female	43	36.677	32.067	4.890
			Male	21	248.962	104.252	22.750
		AL (mm)	Female	47	242.651	128.391	18.728
			Male	21	77.957	24.305	5.304
		CR (mm)	Female	47	76.149	21.691	3.164
			Male	21	31.967	16.042	3.501
	>18	AL/CR	Female	47	31.864	13.890	2.026
			Male	4	2.225	18.500	9.250
		SE (D)	Female	5	2.000	36.187	16.183
			Male	4	135.750	47.170	23.585
		CH (mmHg)	Female	5	149.600	271.441	121.392
			Male	4	123.000	50.332	25.166
		CRF (mmHg)	Female	5	143.200	286.740	128.234
Emmetropia (E)	6 - 10	CCT (mm)	Male	4	57.350	3.317	1.658

			Female	5	57.360	42.606	19.054
			Male	4	37.050	20.469	10.235
		ACD (mm)	Female	5	34.340	7.603	3.400
			Male	4	231.125	37.464	18.732
		AL (mm)	Female	5	229.100	24.042	10.752
			Male	4	77.275	11.500	5.750
		CR (mm)	Female	5	77.740	10.807	4.833
			Male	4	29.900	816.000	408.000
		AL/CR	Female	5	29.460	2.510	1.122
			Male	10	-380.000	16.033	5.070
		SE (D)	Female	10	870.000	35.979	11.377
			Male	10	125.800	46.857	14.817
		CH (mmHg)	Female	10	126.900	231.490	73.204
			Male	10	128.900	119.764	37.873
		CRF (mmHg)	Female	10	129.000	259.315	82.003
			Male	10	58.800	41.061	12.985
		CCT (mm)	Female	10	55.900	46.068	14.568
			Male	10	37.670	14.384	4.549
		ACD (mm)	Female	8	37.913	5.249	1.856
			Male	10	247.640	89.729	28.375
		AL (mm)	Female	10	233.500	76.697	24.254
			Male	10	81.360	31.595	9.991
		CR (mm)	Female	10	77.400	30.478	9.638
			Male	10	30.450	3.240	1.025
	11 - 14	AL/CR	Female	10	30.180	2.936	929.000

15 - 18	SE (D)	Male	5	-2.760	37.159	16.618	
		Female	12	-1.658	34.888	10.071	
	CH (mmHg)	Male	5	127.200	295.753	132.265	
		Female	12	130.167	100.800	29.098	
	CRF (mmHg)	Male	5	127.600	275.372	123.150	
		Female	12	131.500	152.762	44.099	
	CCT (mm)	Male	5	58.800	51.103	22.854	
		Female	12	57.583	26.031	7.514	
	ACD (mm)	Male	3	38.767	26.558	15.333	
		Female	11	38.073	37.073	11.178	
	AL (mm)	Male	5	239.220	78.104	34.929	
		Female	12	231.383	103.907	29.995	
	CR (mm)	Male	5	78.080	22.005	9.841	
		Female	12	76.283	31.634	9.132	
	AL/CR	Male	5	30.640	7.092	3.172	
		Female	12	30.333	5.245	1.514	
	>18	SE (D)	Male	18	694.000	30.532	7.196
			Female	28	671.000	30.941	5.847
CH (mmHg)		Male	18	108.833	221.817	52.283	
		Female	28	117.964	162.264	30.665	
CRF (mmHg)		Male	18	114.000	228.756	53.918	
		Female	28	118.607	177.187	33.485	
CCT (mm)		Male	18	55.772	35.516	8.371	
		Female	28	56.043	38.153	7.210	
ACD (mm)	Male	18	35.917	24.457	5.765		

		AL (mm)	Female	28	34.589	24.045	4.544	
			Male	18	236.567	51.965	12.248	
		CR (mm)	Female	28	234.664	55.452	10.480	
			Male	18	77.439	15.309	3.608	
		AL/CR	Female	28	30.264	5.201	983.000	
			Male	18	30.550	4.162	981.000	
	Hyperopia (H)	6 - 10	SE (D)	Male	6	22.317	190.964	77.961
				Female	11	12.982	31.597	9.527
			CH (mmHg)	Male	6	129.167	211.983	86.542
				Female	11	129.545	180.796	54.512
			CRF (mmHg)	Male	6	125.000	213.354	87.101
				Female	11	131.455	205.054	61.826
		CCT (mm)	Male	6	56.600	21.279	8.687	
			Female	11	56.664	35.449	10.688	
		ACD (mm)	Male	6	36.217	37.091	15.142	
			Female	9	35.989	23.646	7.882	
		AL (mm)	Male	6	228.100	112.574	45.958	
			Female	11	227.845	53.208	16.043	
CR (mm)	Male	6	79.000	17.297	7.062			
	Female	11	77.409	19.154	5.775			
AL/CR	Male	6	28.883	10.439	4.262			
	Female	11	29.436	4.739	1.429			
11 - 14	SE (D)	Male	5	11.780	48.792	21.821		
		Female	5	33.780	184.467	82.496		
	CH (mmHg)	Male	5	121.000	327.261	146.356		

		Female	5	142.200	216.032	96.613
	CRF (mmHg)	Male	5	116.200	320.811	143.471
		Female	5	134.800	192.016	85.872
		Male	5	54.560	9.990	4.468
	CCT (mm)	Female	5	55.600	45.951	20.550
		Male	5	37.880	12.834	5.739
	ACD (mm)	Female	5	37.000	17.436	7.797
		Male	5	224.700	110.917	49.603
	AL (mm)	Female	5	223.000	24.779	11.082
		Male	5	74.760	49.303	22.049
	CR (mm)	Female	5	77.460	30.022	13.426
		Male	5	30.060	5.683	2.542
	AL/CR	Female	5	28.800	8.916	3.987
		Male	1	7.500	.	.
	SE (D)	Female	1	6.300	.	.
		Male	1	169.000	.	.
	CH (mmHg)	Female	1	128.000	.	.
		Male	1	168.000	.	.
	CRF (mmHg)	Female	1	143.000	.	.
		Male	1	63.200	.	.
	CCT (mm)	Female	1	63.200	.	.
		Male	1	35.700	.	.
	ACD (mm)	Female	1	34.500	.	.
		Male	1	227.800	.	.
15 - 18	AL (mm)	Female	1	232.000	.	.

		Male	1	77.800	.	.
	CR (mm)	Female	1	77.400	.	.
		Male	1	29.300	.	.
	AL/CR	Female	1	30.000	.	.
		Male	4	21.900	304.053	152.026
	SE (D)	Female	14	20.193	156.475	41.820
		Male	4	127.000	107.393	53.697
	CH (mmHg)	Female	14	117.857	200.724	53.646
		Male	4	118.500	221.284	110.642
	CRF (mmHg)	Female	14	119.429	229.940	61.454
		Male	4	56.575	22.559	11.280
	CCT (mm)	Female	14	56.779	38.375	10.256
		Male	3	36.000	42.438	24.502
	ACD (mm)	Female	14	30.864	30.173	8.064
		Male	4	231.250	109.537	54.768
	AL (mm)	Female	14	225.229	30.009	8.020
		Male	4	76.875	9.359	4.679
	CR (mm)	Female	14	76.479	18.664	4.988
		Male	4	30.075	15.218	7.609
	>18	Female	14	29.464	7.581	2.026