

Supplementary Table 1. Comparison of demographics and ocular biometric factors between Clusters 1A, 1B, and 2 from the 3-cluster sensitivity analysis

Lighting	Mean Parameters (Mean ± SD)	Cluster 1	Cluster 2	Cluster 3	P-value ^a	1 v 2 ^a	1 v 3 ^a	2 v 3 ^a
Dark		N = 71	N = 61	N = 27				
	PAC/G:PACS	23:48	13:48	3:24	0.07			
	IOP ^b (mmHg)	16.638 ± 4.019	16.054 ± 3.085	15.321 ± 2.688	0.23	> 0.99	0.29	> 0.99
	AOD750 (mm)	0.132 ± 0.044	0.185 ± 0.044	0.225 ± 0.055	< 0.001	< 0.001	< 0.001	0.01
	TISA750 (mm ²)	0.066 ± 0.024	0.113 ± 0.027	0.114 ± 0.024	< 0.001	< 0.001	< 0.001	0.1
	IA (mm ²)	1.650 ± 0.249	1.567 ± 0.153	1.554 ± 0.213	0.10	0.11	0.12	> 0.99
	IT750 (mm)	0.426 ± 0.085	0.366 ± 0.059	0.425 ± 0.052	< 0.001	< 0.001	> 0.99	< 0.001
	IC (mm)	0.270 ± 0.056	0.330 ± 0.047	0.206 ± 0.060	< 0.001	< 0.001	< 0.001	< 0.001
	ACD (mm)	2.160 ± 0.212	2.109 ± 0.170	2.420 ± 0.184	< 0.001	0.39	< 0.001	< 0.001
	LV (mm)	0.800 ± 0.168	0.882 ± 0.130	0.573 ± 0.136	< 0.001	0.006	> 0.99	< 0.001
	ACW (mm)	11.524 ± 0.456	11.492 ± 0.307	11.454 ± 0.281	0.70	> 0.99	> 0.99	> 0.99
	PD (mm)	3.848 ± 0.722	3.463 ± 0.503	4.259 ± 0.880	< 0.001	0.001	0.13	< 0.001
Light		N = 16	N = 110	N = 33				
	PAC/G:PACS	8:8	28:82	3:30	0.01			
	IOP ^b (mmHg)	18.312 ± 5.591	16.015 ± 3.088	15.747 ± 3.236	0.03	< 0.001	< 0.001	> 0.99
	AOD750 (mm)	0.169 ± 0.061	0.225 ± 0.050	0.311 ± 0.047	< 0.001	< 0.001	< 0.001	< 0.001
	TISA750 (mm ²)	0.084 ± 0.034	0.132 ± 0.030	0.164 ± 0.026	< 0.001	< 0.001	< 0.001	< 0.001
	IA (mm ²)	1.551 ± 0.187	1.848 ± 0.200	1.888 ± 0.218	< 0.001	< 0.001	< 0.001	0.99
	IT750 (mm)	0.378 ± 0.051	0.333 ± 0.065	0.332 ± 0.046	0.01	0.003	0.009	> 0.99
	IC (mm)	0.212 ± 0.081	0.314 ± 0.065	0.256 ± 0.056	< 0.001	< 0.001	0.22	< 0.001
	ACD (mm)	1.977 ± 0.240	2.119 ± 0.147	2.464 ± 0.142	< 0.001	0.003	< 0.001	< 0.001
	LV (mm)	0.898 ± 0.200	0.862 ± 0.152	0.656 ± 0.124	< 0.001	> 0.99	< 0.001	< 0.001
	ACW (mm)	11.235 ± 0.550	11.520 ± 0.331	11.685 ± 0.362	< 0.001	0.01	< 0.001	0.07
	PD (mm)	3.398 ± 0.893	2.431 ± 0.416	2.567 ± 0.351	< 0.001	< 0.001	0.003	0.11

ACD: Anterior chamber depth; ACW: Anterior chamber width; AOD: Angle opening distance; IA: Iris area; IC: Iris curvature; IOP: Intraocular pressure; IT: Iris thickness; LV: Lens vault; PAC: Primary angle closure; PACS: Primary angle closure suspect; PACG: Primary angle closure glaucoma; PD: Pupillary diameter; TISA: Trabecular iris surface area

^a Statistical significance tested by ANOVA/Pairwise t-test or Kruskal-Wallis/Dunn test or Chi-Squared test

^b Post hoc; not included in cluster analysis