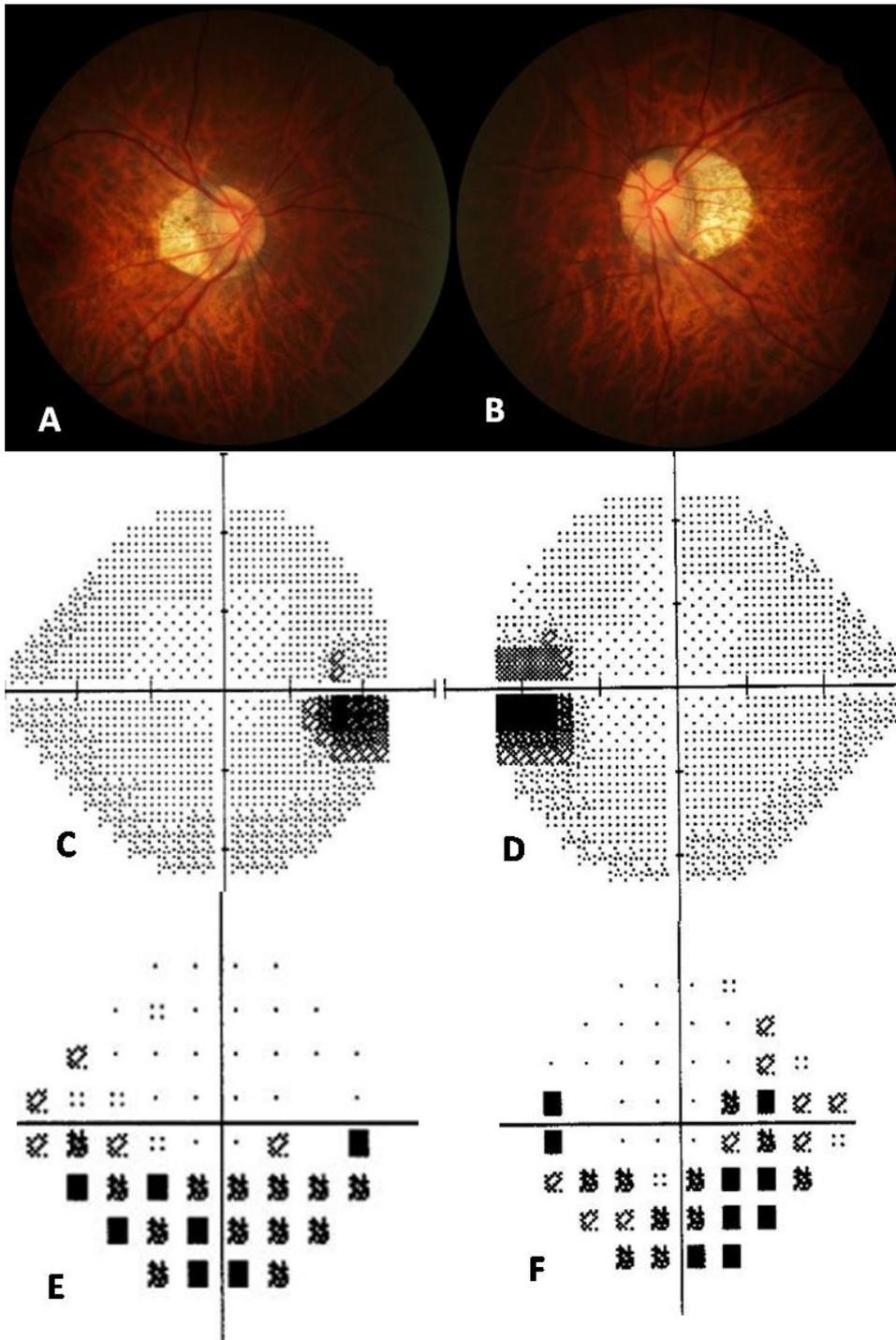


Title: Visual Field Defect Classification in the Zhongshan Ophthalmic Center- Brien Holden Vision Institute High Myopia Registry Study

Supplementary

Case 1, case with high risk of glaucoma.

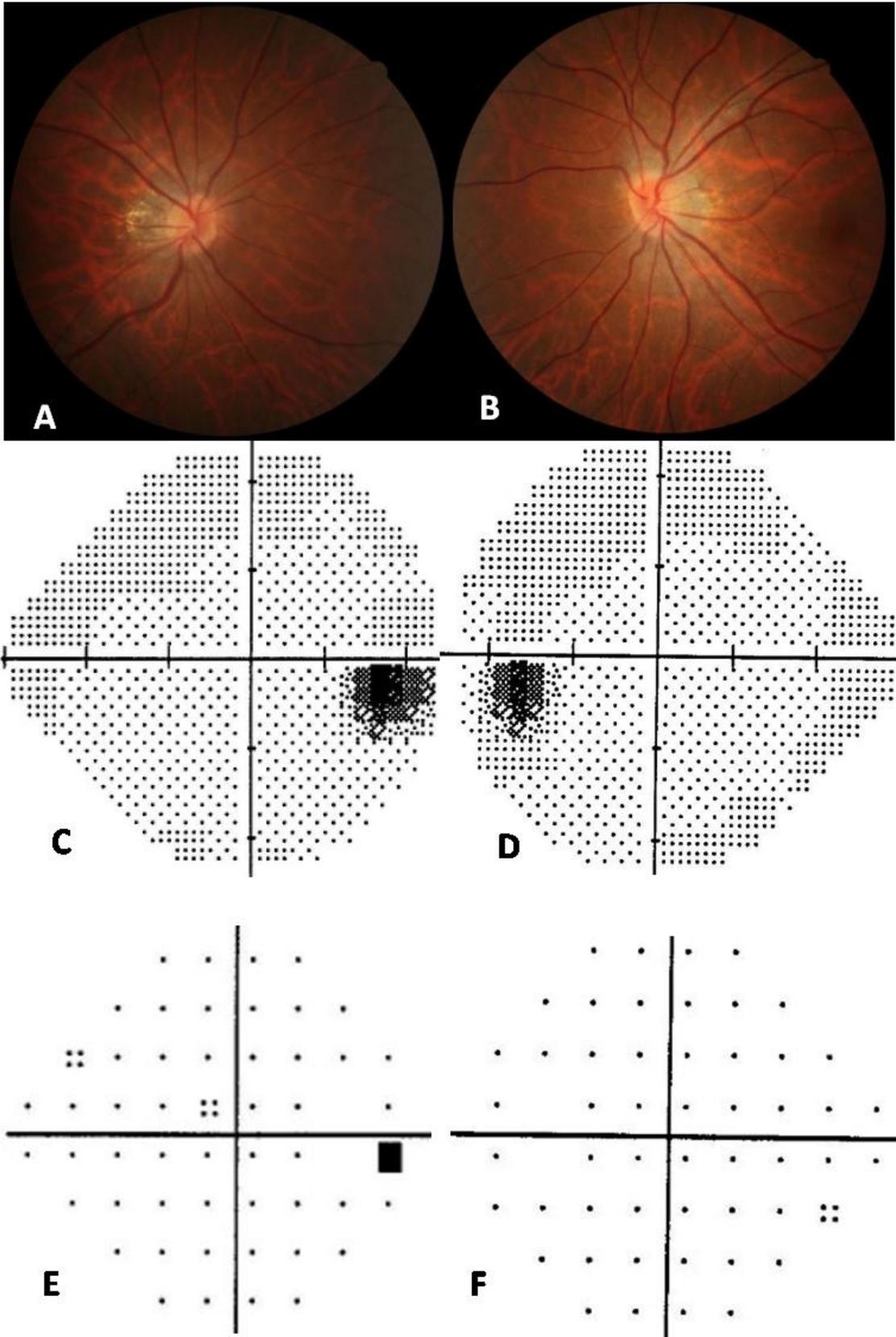
The following example is a typical arcuate-like visual field defect without any glaucomatous structure damage (see Supplementary figure 1): 45-year-old Chinese male with myopia > 20 years and no glaucoma history. Best corrected visual acuity was 20/20 in both eyes with a manifest refraction of -11.5/-1.0×145 and -12.5/-1.5×55 in the right and left eye, respectively. The IOP was 14 mmHg and 15 mmHg, axial length was 28.91 mm and 28.90 mm, and CCT was 535um and 527um in the right and left eyes, respectively. The fundus photos can be seen in Supplementary figure 1 A and B for right and left eye, respectively, demonstrating peripapillary atrophy and tilt right greater than left but a vertical cup-to-disc ratio of 0.3 in both eyes. The visual field exhibited a light inferior arcuate in both eyes on pattern standard deviation plot, seen in Supplementary figure 1 E and F, for right and left eye, respectively.



Supplementary figure 1. A typical case with high risk of glaucoma according to visual field, but without glaucomatous structure damage

Case 2, case with low risk of glaucoma.

The following example is a typical normal visual field defect and normal fundus photo (see Supplementary figure 2): 35-year-old Chinese female with myopia > 18 years and no glaucoma history. Best corrected visual acuity was 20/20 in both eyes with a manifest refraction of -9.5Ds and -10.0/-2.75 × 10 in the right and left eye, respectively. The IOP was 13 mmHg and 11 mmHg, axial length was 27.57 mm and 27.40 mm, and CCT was 512um and 517um in the right and left eyes, respectively. The fundus photos can be seen in Supplementary figure 2 A and B for right and left eye, respectively, demonstrating a normal disc with the vertical cup-to-disc ratio of 0.2 in both eyes. The visual field exhibited a normal in both eyes on pattern standard deviation plot, seen in Supplementary figure 2 E and F, for right and left eye, respectively.



Supplementary figure 2. A normal case with low risk of glaucoma