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Short Communication

Using Bruckner's Test to Diagnose Lenticular Myopia in Zonular Cataract

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A 1-year-old male child with zonular cataract (Figure 1a) on distant direct ophthalmoscopy (Figure 1b) was found to have 2 zones- zone 1 corresponding to the zonular cataract, zone 2 corresponding to the clear part of crystalline lens. Zone 1 showed a bright reflex localized to the inferior part. On retinoscopy zone 1 showed an error of -13 dioptres spherical equivalent, zone 2 was near emmetropic. In myopes distant direct ophthalmoscopy reflex reveals a bright area in the inferior part of the eye (Bruckner's test) [1,2] which corraborates with our finding of only the central zone being myopic. The zone 1 is myopic due to cataract [3]. So, we would like to propose that Bruckner's test can also be used to diagnose lenticular myopias in case of zonular cataracts with decent media clarity.

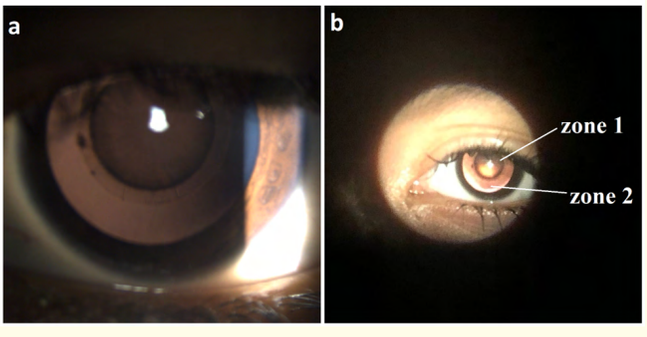

Figure 1: (a) Slit lamp microscopic examination of the eye showing zonular cataract; (b) Distant direct ophthalmoscopy of the same eye showing 2 distinct zones as labelled, bright reflex is seen inferiorly in zone 1 corresponding to zonular cataract causing lenticular myopia.

To conclude cataract can cause significant lenticular myopia which can be easily screened via red reflex test using distance direct ophthalmoscope.

Conflicting Interest

Nil.

Source(s) of Support

Nil.

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