

## 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 corroborates 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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