Swept Source Based Optical Biometry by IOL Master 700 in Pediatric Anterior Pyramidal Cataract

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Anterior polar cataract is an opacity at the anterior capsule of the lens induced by metaplasia of the epithelial cells. Anterior polar cataract is a highly amblyogenic condition not because of a visually obstructing lens opacity but because of refractive errors, primarily hypermetropic anisometropia and astigmatism.Pyramidal anterior polar cataracts are present at birth and may represent a variant of anterior polar lens opacities. They may be unilateral or if bilateral, they may be either symmetric or asymmetric. They consist of hyperplastic lens epithelium in a collagenous matrix [1-2].

We report a case of anterior pyramidal cataract documented with Swept source based optical biometry by IOL Master 700.

A 3 year old boy presented with white reflex in the right eye since 3 months with occasional deviation. He was fixing and following light with OD while OS had 20/20 vision with Cardiff card. The examination OD showed 3 mm anterior pyramidal cataract with cortical extensions which was documented well in Swept source OCT based optical IOL MASTER 700 (Zeiss) (Figure 1 and 2). Other findings OS were unremarkable. Right Eye had sensory exotropia. The USG B Scan was normal. Patient underwent uneventful cataract extraction with IOL implantation and had postoperative best corrected visual acuity of 20/40 in RE and was on glasses and occlusion therapy till last follow up.

Measured values	Keratometry values
AL: 21.16 mm (!) (SD = 36 µm)	n: 1.3375
ACD: 3.35 mm (!) (SD = 22 μm)	SE: 43.56 D (SD = 1 µm)
LT:	K1: 42.23 D @ 173° (SD = 9 μm)
	K2: 44.97 D @ 83° (SD = 7 μm)
	ΔD: -2.74 D @ 173°
Central corneal thickness	WTW and pupil values (CW-Chord)
	WTW: 12.3 mm lx: +0.9 mm ly: -0.2 mm
CCT: 582 μm (!) (SD = 7 μm)	P: 5.5 mm Px: +0.7 mm Py: -0.2 mm
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Figure 1: IOL Master 700 biometry of Right Eye.

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Figure 2: 2 (a) showing anterior pyramidal cataract and 2 (b) swept source image of anterior pyramidal cataract.

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