

# VEP Pediatric Case Study

## Pathology from Birth: Interference in Visual Development?

### Presentation:

A seven and a half year-old female presented with an irido capsular small lenticular opacity just below the visual axis in her right eye. Prior ophthalmologic examination when the patient was four years of age had documented this "spot" in her right eye, and the parents were told that it might interfere with the child's visual development. There was no family history of any serious ocular disorder, but both parents used reading glasses. At her yearly pediatric well-visit, she was given the *Enfant® Pediatric VEP Vision Test*. The VEP Vision Test indicated a statistically significant difference in visual function between her right and left eyes, and she was subsequently referred to a pediatric ophthalmologist.

### Assessment:

On exam, the patient demonstrated 20/200 in her right eye and 20/20 in her left eye for distant targets, and 20/20 in each eye for near targets. It was noted that the type of opacity in her right eye is usually not progressive. The adhesions are relatively common in children, but rare in adults indicating breakage with pupillary constriction and dilation.

The child had full ocular motility without restriction. Her eyes were straight, and she had excellent binocular function and color perception. Her eyes were soft to palpation. The patient's anterior segments were otherwise clear. She had normal pupillary motility and reactions, and her fundi were normal.

### Diagnosis and Treatment:

The ophthalmologist was very concerned with the inequality in refractive error between the right and left eye with the right eye being more hyperopic than the left. The inequality could be secondary to the adhesion or coincidental. It was noted that the irido capsular adhesion, by itself, should not interfere with visual development. Glasses were prescribed to be worn for indoor activities and removed for outdoor play. The child was to return again for examination in six months.

### Conclusion:

The *Enfant® Pediatric VEP Vision Testing System* is an important medical device for testing children of all ages for visual abnormalities. Even children who have had previous ophthalmologic examinations should be tested regularly for vision deficits.

For more information regarding the



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