

## RETINAL ASTROCYTIC HAMARTOMA COMPLICATED WITH VITREOUS HEMORRHAGE IN TUBEROUS SCLEROSIS

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**Purpose:** To report a case of tuberous sclerosis that had astrocytic hamartoma complicated by vitreous hemorrhage.

**Methods:** An observational case report

**Result:** A 31-year-old female with tuberous sclerosis presented with blurred vision of the right eye. Physical examinations revealed facial adenoma sebaceum, shagreen patches and ash leaf spots on the lower limbs. The best corrected visual acuity was 3/60 in the right eye and 6/6 in the left eye. Ophthalmoscopy examination revealed vitreous hemorrhage and elevated peripapillary lesion in the right eye. Incomplete posterior vitreous detachment was also noted. The MRI scan revealed a discoid lesion, 5mm in diameter, elevated from the retina of the right eye. One month later, the vitreous hemorrhage decreased, and ophthalmoscopy examination revealed a white, elevated, retinal tumor involving the inferior optic disc.

**Conclusion:** Retinal astrocytic hamartoma is a common ocular manifestation of tuberous sclerosis. There had been 20 cases of tuberous sclerosis with retinal astrocytic hamartoma reported in Taiwan but none had vitreous hemorrhage. Small vascular channels in the tumor and acute posterior vitreous detachment may account for the severe, yet transient vitreous hemorrhage in our patient. In young patients with vitreous hemorrhage and specific cutaneous lesions, tuberous sclerosis with retinal astrocytic hamartoma may be considered.

**Keywords:** vitreous hemorrhage, astrocytic hamartoma, tuberous sclerosis

Tuberous sclerosis (TS) is a multisystem disorder with variable clinical manifestations. It is characterized by hamartomas in multiple organ systems.<sup>1</sup> Retinal astrocytic hamartoma is a characteristic ocular mani-

festation of TS. The tumor can be unilateral, bilateral, solitary, multifocal, transparent, opaque, noncalcified or calcified.<sup>2</sup> Generally, retinal astrocytic hamartoma in TS show little changes over decades and is relative sta-

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