INTRAORBITAL CAVERNOUS HAEMANGIOMA (CHM)

Rahman MS¹, Hossain MA²

Abstract
This is an interesting and rare case report of right intraorbital cavernous haemangioma near optic nerve of a 12 years boy who was hospitalized for right sided uniocular moderate axial proptosis and headache without any impairment of vision. Computed Tomographic (CT) scan showed fusiform enlargement of around right optic nerve just behind the eye ball. The mass was removed by right fronto-orbito-zygomaticotomy incision and diagnosed post-operatively as intraorbital cavernous haemangioma (CHM).

Key words : Intraorbital cavernous haemangioma.

Case Report
On 20th May 2009, a 12-year-old boy (Fig-1) was admitted to Combined Military Hospital (CMH) Rangpur with 03 months history of proptosis in right eye, headache and vertigo. The proptosis was gradually increasing which was axial in nature without any symptom of diplopia, restricted eye movement and impairment of vision. Family history, personal history and drug history were not relevant. On local examination he was found forward bulging of right eye with mild conjunctival chemosis. Ocular mobility was not restricted, There was no defect of vision. Compression test was negative. Pupil was reacting normally. Fundus was found normal. All relevant investigations were done. T₃, T₄, TSH, CBC was within normal limit . CT scan and MRI of brain and orbit showed fusiform enlargement around right optic nerve (Fig-2). FNAC showed moderate cellular materials containing ganglion cells having abundant cytoplasm with relatively large nuclei and small cells with hyperchromatic nuclei without any malignant cells. The case transferred to India for better management where extensive surgery was done by right fronto-orbitozygomaticotomy. Total mass removed and diagnosed post-operatively as right sided intraorbital cavernous haemangioma(CHM). After operative treatment, the patient was symptomless having slight impairment of vision to 6/9 in right eye without any sign of proptosis, optic nerve atrophy and restriction of ocular mobility.

Discussion
Cavernous haemangiomas are rare benign vascular malformation and can occur anywhere in the brain,
spinal cord and orbit but has been reported most frequently at subcortical sites on the frontal and temporal lobes or in intraorbital region. The etiology of CHM may be spontaneous, syndrome or familial. Intraorbital cavernous haemangioma near optic nerve head is a rare, congenital, unilateral, vascular hamartoma. It is histologically benign vascular malformation composed of capillary tangles. It is associated with proptosis or distortion of vision. These lesions vary in size, have smooth contours and are noninvasive. The lesions are well defined with internal spaces giving rise to a characteristic picture like round or oval mulberry coloured lesion. It is usually situated within the muscle cone, often in association with a muscle. When interfering with visual function or causing marked proptosis, a complete surgical excision is carried out. CHM effects 0.5% of the population with only a small fraction of these having optochiasmal CHM. Clinical presentation of CHM is determined by location. CHM has a different manifestation, most commonly episodic acute visual disturbance which may or may not improve. But it may present chronically with progressive visual loss, headache and with sign of raised intracranial pressure (ICP) and psychiatric disturbance though uncommon but depend on size and location. The treatment of intraorbital CHM is surgical. Simple decompressive surgery for the patient presenting with acute symptom but endoscopic associated surgery may have a role in the management of the acutely presenting patient by endoscopically adept surgeon. The Case reported here was an intraorbital CHM near optic nerve with the classic clinical presentation of proptosis and radiological findings of fusiform lesion near optic nerve. Surgical management was done by fronto-orbitogygomatic incision on 31 July 2009.

References