SPONTANEOUS REGRESSION OF INDIRECT CAROTID-CAVERNOUS SINUS FISTULA

Shao-Jung Lee¹, Youn-Shen Bee¹,², Muh-Chiou Lin¹, Jiunn-Liang Chen¹, Chia-Jung Shen⁴, Shwu-Jiuan Sheu¹,³

We report two cases of spontaneous regression of indirect carotid-cavernous sinus fistula (CCF). A 74-year-old man presented with sudden onset of painful swelling without traumatic history in his left eye. Ocular examinations showed proptosis, ophthalmoplegia, marked lid edema with local heat, congested conjunctiva and chemosis, but no bruits in the left eye. Orbital CT and MRI demonstrated superior ophthalmic vein engorgement and suspected inflammation of orbits. Methylprednisolone pulse therapy had been used under suspicion of combined idiopathic orbital inflammation. His CCF got spontaneous regression in 19 days after his initial ocular symptom, 8 days after contrast CT. Another 29-year-old woman without traumatic history had progressively lid swelling in her right eye. Ocular examination revealed good vision, edematous eyelids, proptosis, superficial punctate keratitis, and elevated IOP in the right eye. Orbital CT and diagnostic angiography demonstrated indirect CCF. She had spontaneous regression of CCF 4 months after her initial ocular symptoms, and 2 weeks after diagnostic angiography. Although some of the indirect CCF could be spontaneously closed, corticosteroid, iodine contrast medium, and angiographic catheter manipulation may contribute to the closure in our cases.

Keywords: Mesh Term, angiographic catheter, carotid-cavernous sinus fistula, corticosteroid; iodine contrast medium

Received: May, 18, 2011. Revised: June, 21, 2011. Accepted: August, 3, 2011.

¹Department of Ophthalmology, Kaohsiung Veterans General Hospital, Kaohsiung.
²Yuh-Ing Junior College of Health Care and Management, Kaohsiung.
³National Yang-Ming University School of Medicine, Taipei.
⁴Fooyin University Hospital, Pingtung

Correspondence and reprint requests to: Youn-Shen Bee  Department of Ophthalmology, Kaohsiung Veterans General Hospital, 386, Ta-Chung 1st Road, Kaohsiung 813, Taiwan, ROC. E-mail: ysheu@vghks.gov.tw