18th Joint event on
EUROPEAN OPHTHALMOLOGY CONGRESS & OCULAR PHARMACOLOGY
December 04-06, 2017 | Rome, Italy

Pars plana vitrectomy with internal limiting membrane peeling in optic disc pit maculopathy

Ahmed Shawkat Abdelhalim and **Mahmoud Mohamed Genaidy**
Minya University, Egypt

Statement of the Problem: Congenital optic disc pit (ODP) appears as a localized oval or round depression within the nerve head. It may develop secondary to a defect in the primitive epithelial papilla. Some pits have also been seen in eyes with optic nerve or retinochoroidal coloboma. In these cases, the incomplete closure of the embryonic fissure may play an etiological role. Retinal detachment is more commonly seen with large temporally located pits and usually involves the macula. Centrally located pits are generally not associated with retinal detachment. Macular retinoschisis has been also described in eyes with congenital optic pits and retinal detachment

Purpose: To evaluate the anatomical and functional results of pars plana vitrectomy (PPV) combined with internal limiting membrane (ILM) peeling, endolaser photocoagulation and gas tamponade in management of optic disc pit (ODP) maculopathy in a prospective interventional non-comparative case series study.

Patients & Methods: Nine patients with optic disc pit maculopathy underwent PPV combined with ILM peeling, endolaser photocoagulation and C3F8 gas tamponade between April 2011 and April 2016. Patients were followed up clinically and by coherence tomography (OCT) for 6 months postoperatively.

Results: Resolution of subretinal and intraretinal fluid occurred in 77.7% of the patients at the end of six month follow up. There was significant improvement in visual acuity in all eyes. No intraoperative or postoperative complications encountered in all cases.

Recent Publications

1. Hirakata A, Okada A A, Hida T (2005) Long-term results of vitrectomy without laser treatment for macular detachment associated with an optic disc pit. Ophthalmology. 112(8):1430-1435.
2. Rizzo S, Belting C, Genovesi Ebert F, Di Bartolo E, Cresti F, Cinelli L et. al. (2012) Optic disc pit maculopathy: the value of small-gauge vitrectomy peeling, laser treatment, and gas tamponade. Eur. J. Ophthalmol. 22(4):620-625.
3. Hirakata A, Inoue M, Hiraoka T, McCuen B W (2012) Vitrectomy without laser treatment or gas tamponade for macular detachment associated with an optic disc pit. Ophthalmology. 119(4):810-818.
4. Avci R, Yilmaz S, Inan U U, Kaderli B, Kurt M, Yalcinbayir O et. al. (2013) Long-term outcomes of pars plana vitrectomy without internal limiting membrane peeling for optic disc pit maculopathy. Eye (Lond). 27(12):1359-1367
5. Ooto S, Mittra R A, Ridley M E, Spaide R F (2014) Vitrectomy with inner retinal fenestration for optic disc pit maculopathy. Ophthalmology. 121:1727-1733.

Biography

Ahmed Shawkat Abdelhalim is a Lecturer of Ophthalmology in the Ophthalmology Department in Minya University Hospital, Faculty of Medicine subspecialized in the vitreoretinal field and interested in vitreoretinal surgery.

ahshawkatm2005@yahoo.com

Notes: