Abstract 10

SURGICAL MANAGEMENT FOR OPTIC DISC PIT MACULOPATHY - A NEW APPROACH

Oral

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Purpose:

Optic disc pits are a rare congenital defect in the optic disc that can be complicated with maculopathy causing visual impairment. Relatively little is known about this pathology and treatment options are not fully understood. This case review aims to explore surgical options for managing optic disc pit maculopathy.

Methods:

Four patients presented with optic disc pit maculopathy and their medical records were retrospectively reviewed. Group 1 (1 patient) had a pars plana vitrectomy, internal limiting membrane peel (ILM) and gas with mild laser photocoagulation treatment at the temporal disc margin while group 2 (3 patients) received a pars plana vitrectomy, ILM peel and gas (2/3 patients had revision vitrectomy) with a customised intense laser photocoagulation regime at the temporal disc margin with a white reaction.

Results:

Group 1 is a 56-year-old female with a preoperative and postoperative visual acuity of 0.8 (logMAR) and 1.2 respectively. Group 2 (2 females and 1 male) has an average age of 62.3 years and an average preoperative and postoperative visual acuity of 0.53 and 0.31 respectively. These patients had improved vision with preserved central visual field with no reduced sensitivity and stable retinal condition after 2.5 years follow up.

Conclusions:

Surgery is a viable treatment for optic disc pit maculopathy. Repeated intervention may be necessary and early surgery may have better visual outcomes. The laser photocoagulation regime in group 2 produced the best results for preserving visual acuity.