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TREATMENT OF MACULOPATHY ASSOCIATED WITH OPTIC DISK PIT BY HUMAN AMNIOTIC MEMBRANE PATCH: A ONE-YEAR RESULTS

Oral

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Purpose:

To report the 1-year results of a new surgical technique involving a human amniotic membrane patch to reduce the maculopathy related to an optic nerve head pit.

Methods:

This is a prospective, consecutive, non-randomized interventional study.

Methods:

- Setting: Single Institution.
- Patient: We included eleven eyes of 11 patients affected by macular detachment associated with optic nerve pit were included.
- Intervention: A 25-gauge pars plana vitrectomy was performed in all cases, with an implant of a human amniotic membrane patch inside the optic nerve pit and air as endotamponade.
- Main outcomes and measures: The primary study outcome was the reabsorptions of the subretinal and intraretinal fluid. Secondary outcomes were visual acuity improvements and postoperative complications.

Results:

Mean preoperative central retinal thickness gradually diminished from $512 \pm 137 \mu\text{m}$ to the $243 \pm 19 \mu\text{m}$ at 12-month follow-up. The mean visual acuity improved from 20/80 at baseline to 20/32 at the 12-month follow-up. A complete subretinal fluid resorption occurred in 9 eyes on 11 (81.8%) and a partial resorption in 2 eyes (18%). We did not observe a recurrence of subretinal fluid during the 12 months of follow-up. No intraoperative nor postoperative complications were reported during the follow-up. The amniotic membrane patch remains stable and detectable inside the pit for the entire follow-up.

Conclusions:

amniotic membrane implant may be effective to improve an optic disc pit maculopathy. All the cases reported an anatomical improvement and encouraging visual acuity recovery.