SUCCESSFUL CLOSURE OF A REFRACTORY MACULAR HOLE USING ANTI-VEGF AND GAS C3F8 INJECTION: A CASE REPORT

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Purpose: To present a case of closure of full-thickness macular hole treated with anti-VEGF and gas C3F8 injection after failed macular hole surgery.

Methods: Preoperative and follow-up best corrected visual acuity (BCVA) and optical coherence tomography (OCT) parameters were reviewed and analysed.

Results: A 51-year-old female patient with stage 3 full-thickness macular hole was referred for surgery. She had blurred vision and distorted images in her left eye for 3 years. An uneventful pars plana vitrectomy with ILM peeling and gas SF6 tamponade was done but did not close the hole. 2 months after the surgery Bevacizumab 0.05 ml and 0.3 ml gas C3F8 were injected. Significant improvement of visual acuity (from 43 ETDRS letters prior to the surgery to 70 letters) was observed 6 weeks later. OCT confirmed closure of macular hole. 9 months after the surgery OCT showed normal foveal structure with no defect in ELM or EZ/IZ.

Conclusions: Anti-VEGF and gas injection could be an additional option for treatment of refractory full-thickness macular hole.

Financial disclosure: No