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EFFECT OF POSTOPERATIVE AFLIBERCEPT USE AFTER VITRECTOMY IN DIABETIC PATIENTS

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To expose the anatomical outcome in patients operated for proliferative diabetic retinopathy with gas by pars plana vitrectomy technique, treated with regular applications of intravitreal aflibercept. To evaluate the effectiveness in the prevention and/or treatment of rebleeding of regular continuous applications up to 3 doses, with an interval of 1 month in the clinical prognosis.

Descriptive study analyzing type II diabetic patients with advanced proliferative diabetic retinopathy, who underwent surgery in the period from 2024 to date. All of them underwent optical coherence tomography + panoramic photo before and after the start of treatment, and the results were collected in a database, evaluating the presence or absence of rebleeding, macular and visual status. The main bias was the metabolic control of the patients.

Postoperative rebleeding was avoided and treated in some cases, proving that the use of postoperative antiangiogenics is a valuable tool to prevent postoperative rebleeding when gas or air is placed in patients with proliferative diabetic retinopathy.

Implement a protocol of applying 3 regular doses of antiangiogenic agents to treat and/or prevent the risk of bleeding and keep good visual outcome.

* Anti-vascular endothelial growth factors in combination with vitrectomy for complications of proliferative diabetic retinopathy. Cochrane Database of Systematic Reviews, 2003, Issue 5.

* Appropriate timing schedule for intravitreal anti-VEGF injection as adjuvant therapy before pars-plana vitrectomy in proliferative diabetic retinopathy, a meta analysis. Eye and Vision, 2023, 10(1), 35.

* Determining the Superiority of Vitrectomy vs Aflibercept for Treating Dense Diabetic Vitreous Hemorrhage: A Systematic Review and Meta-Analysis of Randomized Clinical Trials. JOurnal of Ophthalmology, 2023, 2023.

* Anti-Vascular Endothelial Growth Factor Therapy as an Adjunct to Diabetic Vitrectomy. The Open Ophthalmology Journal, 2021, 15(1).

* Prophylactic intravitreal injection of aflibercept for preventing postvitrectomy hemorrhage in proliferative diabetic retinopathy: A randomized controlled trial. Frontiers in Public Health, 2022, 10, 1067670.