

Trabeculectomy as the gold standard in the surgical treatment of glaucoma

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Abstract

Glaucoma is a complex neuropathic disease that leads to irreversible changes that directly damage vision. Worldwide, there are over 65 million people diagnosed with various types of glaucoma. The two main divisions of glaucoma are primary glaucoma, which can be open-angle and closed-angle, and secondary glaucoma caused by other conditions. Another type of glaucoma recently discovered is normal tension or normotensive glaucoma.

Glaucoma treatment can be managed through local eye drops and sometimes tablets, which includes conservative treatment, laser treatments and surgical treatments.

Regarding the surgical treatment of glaucoma, trabeculectomy still remains as a basic surgical treatment compared to canaloplasty and the implantation of various devices such as shunts and valves.

In our study we documented and analyzed the patient data that we took for study, we also made research from different databases that testify to the impact of the surgical treatment of glaucoma through trabeculectomy in reducing the intraocular pressure and improving the life of these patients.

A 56-year-old male patient was diagnosed with open-angle glaucoma 2 years ago and was treated conservatively, but without success in lowering and stabilizing intraocular pressure. From the examinations, anamnesis, visual acuity, tonometry, gonioscopy, OCT were obtained.

After the surgical intervention - trabeculectomy in the patient, it was successfully achieved to reduce the pressure to 17.3-18.9 mmHg in the right eye by eliminating local therapy.

Key words: glaucoma, intraocular pressure, OCT, trabeculectomy.

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