

The results of 20 gauge and 23 gauge vitrectomy combined with phacoemulsification after intravitreal bevacizumab injection in tractional retinal detachment with proliferative diabetic reinopathy

Author: Hülya Güngel, Istanbul, Turkey

Advantages:

To reduce intraoperative bleeding.

Methods:

Forty-nine patients with tractional retinal detachment were studied retrospectively. To 23 patients 20 G PPV, to 26 patients 23 G MIVS combined with phacoemulsification were applied. They had tractional retinal detachment with macular involvement, rhegmatogenous retinal detachment, intravitreal hemorrhage, subhyaloid hemorrhage, taut posterior hyaloid or mixture of them. Triamcinolone 50% was used in all patients. Preoperative best corrected visual acuity, peroperative complications such as bleeding and /or retinal tears, postoperative visual acuity at 6th month or 1 month after silicone removal, visual gain, anatomical situation of the retina, the reason of visual loss were investigated. Tamponades, need for bimanual surgery and reoperations were recorded.

Effectiveness / Safety:

Postoperative the changes of visual acuities (best corrected visual acuities, visual acuity gain, beneficial visual acuities) are similar. Intraoperative bleedings are more statistically significant more less in 23 G MIVS Group. The need of bimanual surgery were similar in two groups.

Take home message:

After intravitreal bevacizumab injection intraoperative bleeding was more in 20 G PPV Group; functional results in two groups were similar. Surgeon is more comfortable and safe during 23 G MIVS after bevacizumab.