

Change in Intra ocular Pressure after a Single Intravitreal Injection of Bevacizumab versus Triamcinolone Acetonide

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Abstract:

Purpose: To compare the rise in IOP after a single intravitreal injection of Bevacizumab versus Triamcinolone acetonide.

Subjects and Methods: A randomized clinical trial quasi experimental month study was carried out at the retina clinic of Al Shifa Trust Eye Hospital, Rawalpindi. A total 60 patients over a period of six months were included in this study.

Results: Mean baseline IOP was 14.57 ± 1.8 mm of Hg in IVB group and 11.93 ± 1.1 mm of Hg in IVTA group. Post injection IOPs in IVB group at 30 minutes, 1 day, 1 week and 4 weeks were 17.40 ± 4.8 , 13.20 ± 2.4 , 12.40 ± 1.9 and 12.87 ± 2.1 mm of Hg respectively. Post injection IOPs in IVTA group at 30 minutes, 1 day, 1 week and 4 weeks were 21.53 ± 9.4 , 16.60 ± 4.7 , 15.20 ± 3.3 and 14.57 ± 3.3 mm of Hg respectively. The mean IOP remained significantly higher in IVTA group as compared with IVB group at 30 minutes ($p=0.039$), 1 day ($p=0.001$), 1 week ($p=0.001$) and 4 weeks ($p=0.024$).

Conclusion: Primary single 1.25mg/0.05ml of Intravitreal Bevacizumab injection causes less IOP rise above the baseline as compared to 4mg/0.1ml Intravitreal Triamcinolone Acetonide. *Al-Shifa Journal of Ophthalmology 2014; 10(2): 105-110. © Al-Shifa Trust Eye Hospital, Rawalpindi, Pakistan.*
