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.