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Controversy in management: IVTA in phakic eyes

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Purpose: To determine incidence of progression of cataract and interval to cataract surgery in phakic patients receiving intra-vitreous triamcinolone acetonide (4 mg) injection.

Methods: IVTA was given in 100 phakic eyes of 98 patients for various pathologies causing macular edema. Patients with follow up for 1 year retrospectively included. Lens status, best-corrected visual acuity, intraocular pressure recorded at each follow up. We also noted duration to cataract surgery. Cataract progression analyzed by lens scores using LOCS III.

Results: The mean follow-up time was 15 months. At the last follow-up, out of 21 clear lens cases lens opacity increased in 19 cases of which 7 posterior sub-capsular cataracts, 5 nuclear sclerosis grade I, 5 had lens changes, 2 operated at 6 months. Out of 39 lens changes, 33 had progression in lens opacity of which include 21 PSC, 11 NS I, 3 NS II, 1 case remained the same and 1 developed mature cataract. 83% received single injection of which 46.98% underwent surgery at a mean of 14 months. 15% received 2 injections, of them 46.66% operated at 16 months. 2 received 3 injections both underwent surgery at mean of 24 months. 48% underwent surgery at duration of 15 months.

Conclusions: Cataract formation became visually significant in half of eyes and required surgery by one year after injection. Most of these cases known to have worsening of macular edema with cataract surgery, alternative treatment modalities may be a better option for reducing macular edema in phakic eyes.

Biography

Vinod Kumar Singh has completed his postgraduate studies with a Gold Medal from MLN Medical College Jhansi, further he did Vitreo-Retinal Fellowship from Aravind Eye Hospital Madurai, followed by Senior Resident in MLN Medical College Allahabad. Currently, he is a Lecturer at the Department of Ophthalmology, RIO, India. He has attended and presented papers in various national and international conferences.

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