

Paper on “Macular thickness changes in early post operative period after uneventful phacoemulsification surgery using Ozil Infiniti machine” by Dr Pavitra Bhatt was published in Indian Journal of Ophthalmology.

Objective: To report visual results & changes in macular thickness 4 weeks after uneventful phacoemulsification surgery

Methods: This prospective study included 42 eyes of 35 patients who under went uneventful phacoemulsification and foldable intraocular lens implantation Main outcome measures included visual acuity and foveal thickness changes assessed by Cirrus OCT. Paired t test was used for statistical analysis. Visual acuity and foveal thickness was measured pre operatively and 1 week and 4 weeks after surgery.

Results: Mean age of participating patients was 62.74 years with equal male & female patients. Mean pre operative FT was $238.76 \mu \pm 25.90 \mu$
Mean postoperative 1 week FT was $238.07 \mu \pm 25.78 \mu$ ($p= 0.464$). Mean postoperative 4th week FT was $244.19 \mu \pm 29.26 \mu$ ($p= 0.001$). Visual acuity of 6/12 or better was achieved in all 42 eyes at 4 weeks
The increase in macular thickness was subclinical and did not affect final visual outcome in any patient.

Conclusion:

1. Moderate but statistically significant increase in central foveal thickness was observed after Phacoemulsification surgery. This was however was not associated with any adverse visual outcome. The cube value of macular thickness however showed no significant increase upto 4 weeks, after surgery. A longer duration of follow up is advisable for patients who showed an increase in foveal thickness to diagnose a progression to CME early.
Cirrus OCT is a useful non-contact and non-invasive diagnostic tool in determining sub clinical CME, in cataract surgery patients.