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## Effect of Intracameral Steroids Injected at the end of Phacoemulsification on Corneal endothelium and postoperative corneal edema

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**Purpose:** Investigating the effect of intracameral steroids at the end of phacoemulsification on corneal edema and endothelial count.

**Methods:** Prospective, interventional case control study. Sixty-nine eyes were randomized into 3 groups, 23 eyes each: 2groups received intracameral dexamethasone and triamcinolone (TA) respectively, while controls didn't receive any intraoperative steroids.

**Results:** On the first postoperative day corneal edema was significantly higher in control compared to dexamethasone and TA groups, P-values were 0.0495 & 0.015 respectively. One month later, mean endothelial cell loss was significantly higher in control (18.37+6.7%) compared to intracameral dexamethasone and TA groups (10.77+4.34%, 8.2+6.57%, respectively, P< 0.0001 both, t-test) but was nonsignificant between intracameral TA and dexamethasone groups (P=0.1329).

The mean increase of corneal thickness was nonsignificantly higher in control (10.47+6.97%) compared to intracameral dexamethasone and TA groups (7.8+4.65% & 8.2+5% respectively), P-values were 0.14 & 0.21 respectively.

**Conclusions**: Intracameral steroids at the conclusion of phacoemulsification significantly improved corneal edema and spared corneal endothelium.

## Biography

Khaled G Abu Eleinen is a renowned Ophthalmology Professor. Khaled G Abu Eleinen is working in Department of Ophthalmology, Faculty of Medicine, Cairo University, Cairo, Egypt and Department of Ophthalmology, Fayoum eye hospital, Fayoum, Egypt . He publishes many articles in reputed journals.