Tip of the Month

October 2016

Despite the increased central corneal thickness (CCT) that may follow lamellar corneal surgery, reliable IOP measurements can be obtained with Goldmann applanation tonometry or Pascal dynamic tomography.

The Science behind the Tip

Lamellar corneal surgery (DSAEK, DMEK) is replacing penetrating keratoplasty, because visual recovery is better and faster and the graft rejection rate is lower\textsuperscript{1}. The incidence of secondary ocular hypertension and glaucoma has also decreased, presumably because of reduced surgery – induced damage to the irido-corneal anatomy and a reduced period of post-operative steroid use\textsuperscript{2,3}.

Goldmann applanation tomography and Pascal dynamic contour tomography have been reported to provide accurate IOP measurements after lamellar corneal surgery, despite a post-operative increase of CCT and altered corneal structure. Corneal-corrected IOP when measured with ocular response analyzer is unhelpful as it appears to over-estimate the IOP\textsuperscript{4}.

References


Contributor: Dr G Sunaric Megevand Consultant Ophthalmologist - Geneva (CH)