



38th Congress of the ESCRS
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2-4 October 2020

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Posters

Intrastromal keratophakia treatment in advanced keratoconus cases

Poster Details

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Abstract Details

Purpose:

To outline the efficacy of implanting a Xenia lenticule in cases of ectasia due to advanced keratoconus.

Setting:

Cathedral Eye Clinic, Belfast, Northern Ireland, UK

Methods:

Four eyes of 4 patients (2 female and 2 male) with ectasia due to advanced keratoconus were included. In these cases, the Xenia lenticule (Gebauer Medical) was utilized which is a highly cross linked corneal button of porcine tissue, with a diameter of 7mm. In each case a 7.25 mm diameter pocket was created using the Visumax Zeiss Meditec machine and a 180 micron cap was used. Corrected distance visual acuity (CDVA), mean keratometry readings, and central corneal thickness (CCT) were outlined 6 months postoperatively.

Results:

Average preoperative Ks were 62.06 ± 8.40 D reducing to 57.48 ± 5.71 D 6 months postoperatively. Preoperative central corneal thickness was 352 ± 40.08 μ m with Scheimpflug imaging (Pentacam) compared to 523.8 ± 18.45 μ m postoperatively measured with anterior segment OCT. Six-month postoperative CDVA was 1.25 ± 0.35 logMAR. Visual acuity with a hard contact lens was measured in each case with a mean CDVA of 0.45 ± 0.17 logMAR (range: 0.2, 0.7 logMAR). Each case will receive topoguided TransPRK treatment and the results will be presented at the conference.

Conclusions:

Intrastromal keratophakia provides an effective methodology to stabilize the cornea and avoid the need for whole corneal transplantation in advanced keratoconus cases.

Financial Disclosure:

None