

4th International Conference & Expo on **Euro Optometry and Vision Science** &

29th International Congress on VisionScience and Eye

August 22-23, 2019 Vienna, Austria

18 month outcome of xen45TM implant in primary open angle glaucoma and normal tension glaucoma with iol implantation

Vyhnalkova K, St Helens and Knowsley
Teachina Hospitals NHS Foundation Trust. UK

Introduction: The aim was to support evidence on the safety and efficacy of XEN implant.

Methods: Subjects were 16 patients, 19 eyes with POAG (Primary Open Angle Glaucoma) and 2 with NTG (Normal Tension Glaucoma) treated with PhacoXEN or XEN implant. Outcome data for this study were collected retrospectively from EDMS (Electronic Document Management System) used as a main source. The implant insertions were performed by one surgeon in one hospital followed by a check-up after one week, one month, three months, six months, 12 months, and 18 months. The study focused on IOP reduction and the number of medications used before and after XEN45™ Implant insertion. IOP reduction of ≥20% at 18 months and complete elimination of medications was deemed to be successful.

Results: IOP dropped from 21.00 ± 5.33 mmHg pre-operatively to 16.22 ± 5.18 mmHg (19.54%), 15.65 ± 4.32 mmHg (19.54%) and 19.54 ± 4.77 mmHg (19.54%) in 6 months, 12 months and 18 months, respectively. There was a statistically significant reduction in IOP in 19.54% of eyes at 18 months. Mean number of medications decreased from 19.54% of eyes at 19.54% of eyes at 19.54% months respectively.

Discussion: This subconjunctival device provides a safe and efficient treatment of POAG by long-term IOP lowering. It significantly reduces the need for topical medication.