

XEN45 IMPLANT: CLINICAL OUTCOMES

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Purpose of the Study: To report clinical outcomes following Xen45 Gel Stent implantation surgery in patients suffering with primary open angle glaucoma.

Methods: A retrospective analysis was performed on all patients who had Xen45 implantation surgery during a 2-year period (Jun 2016–Apr 2018). 53 patients were included with a total of 58 eyes being operated on. Patient's were followed up for a 6-month period after the operation looking at several parameters including intraocular pressure, number of anti-glaucoma medications required and any stent/bleb complications.

Results: There was a 90% (n=52) improvement in intraocular pressure. 83% (n=48) patients had a reduction in the number of anti-glaucoma medications they required to keep an optimal intraocular pressure. Visual field data was available for 31 out of 58 eyes; there was an improvement in roughly half of these cases (55%, n=17). There were very low rates of post-operative infection (2%, n=1) and hypotony (5%, n=3). Several stent complications

were reported (48% of patients, n=28) and bleb complications were also reported primarily due to needling (48%, n=28).

Conclusions: The Xen45 stent is a promising new device with potentially wide applications. It is a much less invasive procedure than trabeculectomy and clearly has a substantial effect on both intraocular pressure as well as the number of anti-glaucoma medications required. Several complications have been reported, however, overall outcomes remain positive. Further prospective analysis is now required to follow these patients over a 24-month period.

Biography

Hassan F qualified from Brighton and Sussex Medical School and is a Junior Doctor working in Warwick Hospital. He has a specialist interest in Corneal Surgery and Paediatric Ophthalmology.

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