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Outcome of 360 degree prolene suture trabeculotomy for congenital glaucoma

Didar S Anwar

Neega Eye Center, Iraq

Aim: To report the outcome of the first 10 cases of 360 degree prolene suture trabeculotomy at Neega Eye Center.

Methods: Ten eyes underwent 360 degrees prolene suture trabeculotomy by one surgeon (DA). Mean age was six months. Mean postoperative follow-up was one year. Preoperative mean intra-ocular pressure was 35 mm Hg. Tonopen Avia was used to measure the intraocular pressure. Surgical Technique: Conjunctival peritomy is performed. The sclera is then cauterized. Four by four millimeter flap is fashioned. Then another two by two millimeter flap is also performed. Schlemm's canal is reached and 5-0 prolene suture is inserted and pushed 360 degree until the prolene suture come out from the other end. The prolene suture is then pulled to open the trabecular meshwork 360 degree and this way decrease the outflow resistance and decrease the intraocular pressure.

Results: Postoperative mean intraocular pressure was 18 mm Hg. The corneal edema cleared in all eyes. Three eyes underwent further surgery because target intraocular pressure was not achieved. Hyphema was observed in all ten eyes but cleared eventually at one week postoperative visit.

Conclusions: 360 degree prolene suture trabeculotomy seems to be effective technique for congenital glaucoma surgery.

Biography

Didar S Anwar has completed Pediatrics and Strabismus Fellowship training at Wilmer Eye Institute-Johns Hopkins Hospital. He is now Director of Neega Eye Center in Erbil, Iraq. He was speakers at many national and international ophthalmology meetings. He has also many peer-reviewed publications in international journals.

didaroph@gmail.com

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