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Near Vision Spectacle Coverage and Associated Factors Among Adults Living in Finote Selam Town, Northwest Ethiopia: Community-Based Cross-Sectional Study**Sofonias Fekadu***university of Gondar, Ethiopia*

Deep sclerectomy technique was modified. An intrascleral reservoir (4*4mm) (ISR) is made by removing 95% of deep scleral layers and deroofting of Schlemm's canal without a window in Descemet's membrane to receive in future AH from anterior chamber (AC). A cyclodialysis tunnel with a collagen implant in it connects ISR to suprachoroidal space (SCS). Postoperatively, a Nd:YAG laser opening in the trabecular meshwork provides resistance free AH outflow from AC under pressure. Thirty-eight patients with open angle glaucoma were operated upon to study the safety and effectiveness of the proposed technique. OCT evaluation of surgical and adjacent sites was carried out in each case to trace and verify possible AH outflow pathway. Outcome measures were IOP change, use of additional medications and complications. At six months, mean IOP decreased from 29.1 ± 9.2 to 14.0 ± 4.3 mmHg ($p=1.4E-09$) and hypotensive medication use reduced by 79.3% (from 2.9 ± 0.9 to 0.6 ± 1 , $p=1.3E-10$). Notably, in 50% cases (19 eyes) the IOP decrease was >50%. Overall success was achieved in 94.7% cases (complete success – 63.1% and partial – 31.6%). Intraoperative complications were few and manageable. There were two failure cases, the reason being high IOP due to blockage of trabeculotomy opening by iris tissue. OCT evaluation confirmed AH filtration via conjunctival lymphatics without formation of a filtering bleb. It is concluded that the proposed technique is safe and effective in decreasing IOP. It decreases IOP by activating uveolymphatic outflow pathway. For predictable hypotensive outcomes, every caution should be taken in glaucoma surgery to preserve the lymphatics.

Biography

Sofonias Addis Fekadu has lots of experiences in the area of public eye health, clinical management of ocular disorders, educational services, research works and community services. He is engaged in community services in collaboration of different organization. As a university instructor, he is engaging in different projects with the students and colleagues. He provides consultations and supervision in different research works for students and different projects in the university of Gondar, Ethiopia.

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