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The use of SF6 gas for the Management of the post glaucoma surgery hypotony

Purpose: To describe a new technique involving the injection of sulfur hexafluoride (SF6) gas in the anterior chamber for the management of hypotony in patients with previous glaucoma surgery.

Materials & Methods: Seven patients were included in this prospective case series. All patients had advanced glaucoma that was managed surgically either by trabeculectomy (6 patients) or Ahmed valve (1 patient). All patients presented with intraocular pressure (IOP) less than 7mmHg, shallow anterior chamber and ultrasound images of choroidal detachment and ciliary body detachment. Patient's hypotony was treated by 0.4-0.6 ml of 100% pure SF6 injection in the anterior chamber followed by supine posture. The purpose of this injection was dual; to displace the ciliary body to its normal position and restore aqueous humor normal production and to block aqueous humor outflow through bubble formation causing of intraocular pressure increase.

Results: Surgical technique was successful in all 7 patients with IOP normalization (>10mmHg) and anteriorchamber depth increase within the first week after surgery.

Conclusions: A new surgical technique of SF6 injection in the anterior chamber for patients with choroidal detachment and hypotony shows promising results.

Recent Publications

1. Validation of Concentric Rings Method as a Topographic measure of Retinal Nonperfusion in Ultra-Widefield Fluorescein Angiography Nicholson L, Vazquez-Alfageme C, Ramu J, Triantafyllopoulou I, Patrao NV, Muwas M, Islam F, Hykin PG, Sivaprasad S. American Journal of Ophthalmology 2015 Dec
2. The Role of Anti-tubercular Therapy in Patients with Presumed Ocular Tuberculosis Rupesh Agrawal, Bhaskar Gupta, Julio J. Gonzalez-Lopez, Farzana Rahman, Sumita Phatak, Ioanna Triantafyllopoulou, Peter K.F. Addison, Mark Westcott, Carlos E. Pavesio Ocular Immunology & Inflammation, 2015; 23(1): 40–46

Biography

Moorfields Eye Hospital and Croydon University Hospital provided teaching opportunities for medical students. Dr. Ioanna took responsibility to contribute to a Programme for undergraduate students of ophthalmology while at CUH. We set out various aims and objectives for the undergraduate curriculum. My contribution involved desired objectives in retinal teaching in particular. I was very pleased to receive excellent feedback! During my residency I was responsible for a weekly meeting to discuss interesting issues in primary care. Similarly I have organised lectures to familiarise the elderly with AMD and study days and seminars to familiarise local GPs with common eye problems. I participated in tutoring medical students in glaucoma and medical retina as SPR at University Hospital of Athens

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