

International Conference on Eye Disorders and Treatment

July 13-15, 2015 Baltimore, USA

The nobility of therapeutic and Optical lamellar keratoplasty for restoring vision and eye threatening conditions

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Purpose: The aim of this study is to evaluate the effectiveness of combining tectonic/therapeutic and optical lamellar keratoplasty to restore eye in threatening conditions and vision.

Method: This is a retrospective review of 5 patients (7 eyes) with peripheral ulcerative keratitis and progressive degenerations that threatened the eye's integrity. All eyes underwent a peripheral tectonic-therapeutic lamellar keratoplasty (LK) to restore its integrity followed 8-12 weeks later by a central optical LK to restore their vision. All surgeries were performed by a single surgeon.

Results: After peripheral therapeutic LK the integrity of all eyes was accomplished. Central optical lamellar keratoplasty reduced significantly the refractive error, improved uncorrected and best corrected visual acuity as well as quality of vision.

Conclusion: The combination of tectonic-therapeutic and optical lamellar keratoplasty for treating patients with peripheral corneal progressive thinning disease that threatens the eye and rehabilitating their vision is a reliable and trustable procedure. Although each case has its independent possible complications and difficulties, the combination of this procedure gives patients a high percentage grade of success for both tectonic and optical results.

Biography

Cesar Gomezperalta is a Senior Consultant Eye Surgeon in the field of Cornea, Cataract and Refractive Surgery at Angeles Lomas Hospital in Mexico City. He specializes in Lamellar Corneal Transplant and ocular reconstruction. He is the Founder and Director of Vision-Perception heading the Keratoconus and Corneal Transplant Clinic. He is the Chairman of the World Wide Alumni of the Singapore National Eye Centre and was appointed Chairman for the 2013 world meeting of the World Association of Eye Hospitals. He received his Medical Degree from the Anahuac University School of Medicine, then trained in General Surgery & Laparoscopy at the American British Cowdray Hospital. He completed his Ophthalmology residency at the Lopez Mateos Regional Hospital and visited as a fellow the Wolfe Clinic in Iowa, USA. He then spent a few years specializing in Cornea, Cataract and Refractive Surgery at the Singapore National Eye Centre in Singapore, where he also gained experienced in Ocular Surface Reconstruction and Artificial Corneas.

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