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Scleral prosthetic lenses

This is a case study of a 51 year-old-patient with double corneal transplant in right eye; first corneal transplant was done in 1993 and the transplant was rejected in a few months. Cornea was turned into leukomatous and second corneal transplant was done by the end of 1993. The transplant was successful until 1999 when patient started losing vision; cornea became totally leukomatous and irregular. It started with deformation of corneal limbus and the eyeball descending to lower eyelid (keratoglob). In 2016, I met the patient for the first time with ophthalmologist diagnosis of eyeball evisceration. Thus the patient was with deep depression. Due to the irregular and deformed cornea neither an ocular prosthesis nor soft prosthetic lens could be adapted. So I tried with a scleral lens. In the first test the general condition of her irregular cornea improved considerably, permitting a good tear film flow between the cornea and the lens. I checked again her cornea and there was neither vision nor light reflection. I used a Scleral lens Atlantis by X-Cell with high permeability and adhered in the internal face a soft lens with black pupil and iris hand painted. Thus the landing in the sclera was improved and was not ejected. I adapted a scleral lens X-cell Atlantis, base curve 7.50, diameter 17.5 double flap. The patient felt very comfortable, with improved quality of life, could insert herself at work again and now her life has completely changed for the better.

Biography

Sergio Ozán, is an Optician, University of Buenos Aires, Argentina; Specialist in Contact Lenses; Specialist and Manufacturer of ocular prosthesis; Scientific Adviser for ocular prosthesis in APO (Asociación Profesional de Optómetras in Argentina); Precursor and Creator of multiperforated orbital implant, JUMAT; Precursor and Creator of expander orbit asmotic hydrogel filling for microphthalmia and; Precursor and Creator of Ocular prosthetics with magnifying glass for microphthalmias. He is the Director of CEPROC, Developer of two-hour customized ocular prosthesis method, unique in Latinamerica and Precursor and Creator of the first prosthetic scleral lens.

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