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Vision restoration by scleral lens in a post-graft patient

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A 50 year- old man, came to our optometry clinic for contact lens fitting. He had keratoconus in both eyes and corneal transplant surgery was done at left eye around 10 years ago. After that, cataract surgery was also done at left eye with intra- ocular lens being inserted. He was wearing glasses after the surgery and vision was not very good. Corneal topographical measurement revealed advanced keratoconus at right eye and oblate graft/host surface with high astigmatism at left eye. The corneal health was good at right eye and the graft condition was stable at left eye. Hence contact lens fitting was suggested in both eyes in order to restore vision. Rigid gas permeable (RGP) contact lens with keratoconus design was successfully fitted at right eye with good comfort and vision. In left eye, the same designed lens showed poor centration due to the highly irregular corneal contour. Then larger diameter lens, scleral lens with 18.2mm in diameter showed significantly better fitting including the centration and subjective feeling. Finally a reverse- geometry designed scleral lens was successfully delivered to patient. The patient had been wearing the lens for 2 years and the lens performance was stable with regular aftercare visits. Contact lens helps him restore vision and enhances the ease in daily work. Specific contact lens designs can help patients to see much better. Scleral lens can restore vision by correcting the irregular and complex cornea through tear lens underneath. It provides alternatives when soft contact lens or smaller RGP lens cannot achieve satisfactory performance.

Biography

Man-Chi Yee has completed the MSc in Optometry in 2015. She is the fellow of BCLA. She is currently working as Optometrist in Optometry Clinic at The Hong Kong Polytechnic University. Her main clinical interest is contact lens, anterior eye and refractive technology.

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