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Modified scleral lens fitting in advanced keratoconus patient: A case report

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The aim of the study is to report a case of scleral lens fitting in a binocular keratoconus patient. A 35-year-old Caucasian male, Mr. T, presented to our Optometry clinic for advanced contact lens fitting. He was diagnosed with keratoconus OU seven years ago. He was fitted with hybrid lens before, but failed in achieving a satisfactory vision due to frequent decentration of lens. Therefore he came to our clinic for other advanced contact lens options. Corneal topographical measurement revealed OU large steepening area at inferior cornea. Patient was first fitted with corneal RGP lens (Rose K IC) on both eyes. But due to large corneal curvature difference, lens instability with large bubbles trapped and decentration were observed. Therefore satisfactory vision and stable lens fitting could not be achieved. Scleral lens with diameter 16.5 mm were then re-fitted to the patient. With modification of mid peripheral region, both visual and fitting performances of the lenses were satisfactory. Corneal condition was optimal in subsequent follow up sessions and patient gained significant improvement in vision. Clinical management and contact lens fitting philosophy on advanced keratoconus patient will be discussed.

Biography

Lam Ka Wai Katy graduated from The Hong Kong Polytechnic University with a Bachelor of Science degree in Optometry in 2014. She is currently in the second year of residency program, specializing in contact lens and anterior segment in School of Optometry, the Hong Kong Polytechnic University.

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