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Corneal aberrations assessment with Rose K2 vs. Rose K2 XL in keratoconus

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Purpose: To compare corneal aberrations with Rose K2 vs. Rose K2 XL lenses fitted in keratoconus.

Methods: Five patients (8 eyes) were evaluated for corneal aberrations in Keratoconus with Rose K2 vs. semi-scleral lenses; using itracey. A comprehensive ophthalmic examination was performed on all patients, which included the uncorrected and corrected visual acuity, bio-microscopy, pentacam and fundus examination.

Results: A total of 8 eyes statistically showed significant HOA ($p < 0.008$), Coma ($p < 0.01$), Trefoil ($p < 0.04$) pre and post lenses. No significant HOA, Coma and Trefoil ($p > 0.05$) compared with Rose K2 and Rose K2 XL.

Conclusions: This study identified Coma more reduced with semi-scleral lenses, but not significant.

Biography

Raghuvveer Singh has completed his studies from School of Optometry at Global Hospital Institute of Ophthalmology. He is working as Optometrist at L V Prasad Eye Institute (LVPEI) and Senior Clinical Consultant Optometrist at Raghudeep Eye Clinic.

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