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Overnight wearing ortho-K contact lenses in 40 patients at Hai Yen Eye Center, Vietnam

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Aim/Purpose: The purpose of this study is to report refractive error changes and visual outcome of number of patients using Cornea Refractive Therapy.

Methods: This is a single-center retrospective descriptive study of 40 patients (80 eyes) including 11 male and 29 female, mean age 14.53±2.84, wearing Fargo overnight Ortho-K contact lenses from May 2014 to February 2016.

Results: The result shows mean uncorrected visual acuity (UCVA) at distance of pre-treatment is $1.22\pm0.17 \log$ MAR; post-treatment one week, one month and three months are $0.23\pm0.025 \log$ MAR, $0.19\pm0.23 \log$ MAR $0.19\pm0.24 \log$ MAR respectively. Mean spherical equivalent refractive error (SER), mean spherical power (SP), mean astigmatism (AS) of pre-treatment are $-5.52\pm2.26D$ (from -2.00D to -10.88D), $-4.96\pm2.08D$, $-1.12\pm0.94D$ appropriately. Mean SER; mean SP, mean AS of three months post-treatment are $-0.62\pm1.11D$, $-0.17\pm0.93D$, $-0.90\pm0.64D$. There are statistically significant changes in UCVA (p<0.0001), SER (p<0.0001), SP (p<0.0001), AS (p=0.01) at three months post-treatment compared with pre-treatment. There are no statistically significant difference of UCVA and SER at one month and three months.

Conclusion: In conclusion, visual acuity and refractive error improve significantly and achieve stability after one month treatment of wearing Ortho-K lenses.

Biography

Nguyen Duc Trong, MD achieved Specialist 1 certification of Ophthalmology (equivalent to Master degree), refraction certification at the Eye Hospital of Ho Chi Minh city. Furthermore, he obtained Ortho-K license fitting from Fargo and Paragon Company. He is currently working at HYEC as an Ophthalmologist, specialized in ocular surface disease. He has experience in fitting Ortho-K nearly for two years.

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