

NCC 'FUTURE GENERATION 2024' PAPER Abstracts
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PAPER Abstracts

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Subjective Feedback among Long-Term Orthokeratology lens (Ortho-K) Wearers and Parents in China: A Multicentre Assessment

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Purpose: Ortho-K is being increasingly used to temporarily correct myopia in children. This large observational study aimed to collect subjective feedback among long-term wearers of Ortho-K (DreamLite, hexafocon A, CooperVision Specialty EyeCare, the Netherlands) (Ortho-K DL) in China to understand the real-world performance and satisfaction of Ortho-K.

Method: Children between 8-16 years old with myopia -0.75 to -4.00 DS and astigmatism ≤ -1.50 DC who wore Ortho-K DL for 1 year or more from 10 cities across China were included. Children and a parent were surveyed using an online questionnaire inquiring about background information, comfort, vision, overall satisfaction and willingness to recommend this lens to others.

Results: 588 valid questionnaires from wearers and their parents were analysed. Average age of the wearers was 10.29 ± 1.87 years with wearing period of 27.6 ± 9.40 months. Both average score of immediate comfort after lens application and comfort just before lens removal were 9.3 out of 10. Average score of unaided vision in the morning and at the end of the day were 9.4 and 9.2 (out of 10). About 96% wearers did not experience or were not troubled by blurry

vision or visual disturbance in the daytime. About 97% of wearers felt free to play sport, watch TV without spectacles after wearing Ortho-K DL. Over 94% wearers did not experience or were not troubled by itching, soreness or tiredness, dry feeling of the eyes. 91% wearers liked wearing Ortho-K DL compared to other myopia correction options. Majority of the wearers (98%) and their parents (95%) were satisfied with Ortho-K DL and were willing to recommend DL to others (wearers: 90%; parents: 93%).

Conclusions: The subjective feedback from long-term Ortho-K wearers and their parents showed Ortho-K DL performed well in a real world setting with both wearers and their parents reporting high satisfaction.

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