

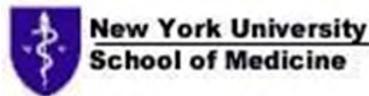
Presbyopia correction: the Vue+ Presbyopic INLAY concurrent with femto LASIK 2011

Presbylens:

Vue+:

- Minimally invasive procedure
- Reverse-able
- Highly biocompatible inlay
- Very little glare
- Some patients have opted for the second eye

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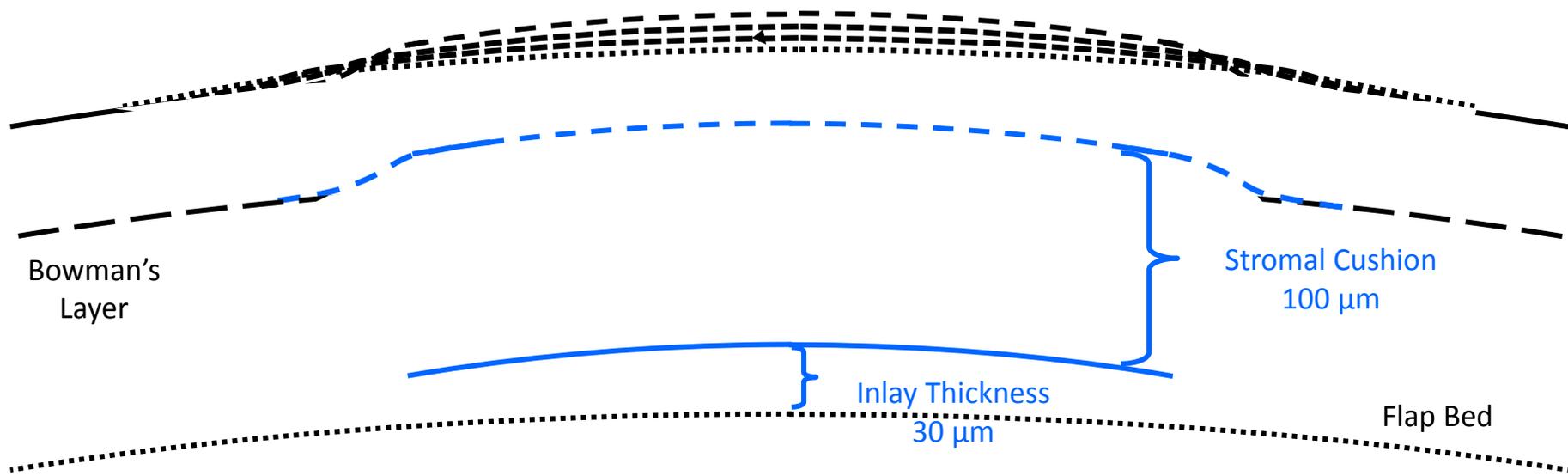


Kanellopoulos, MD www.brilliantvision.gr

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How the Cornea Responds to Vue+ (creates a multifocal area)



Flap thickness 150 μm

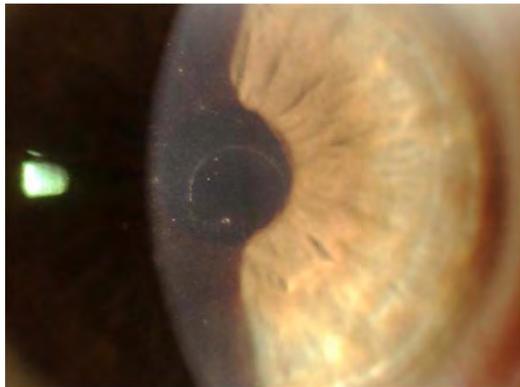
Kanellopoulos, MD



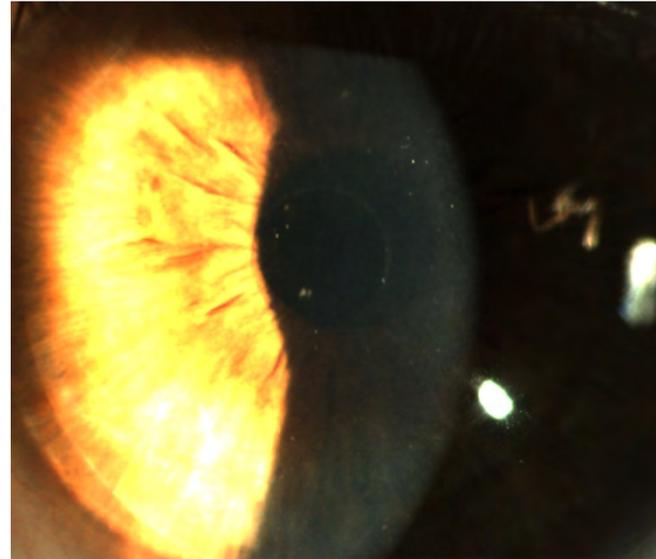
OCT confirms inlay at 150um



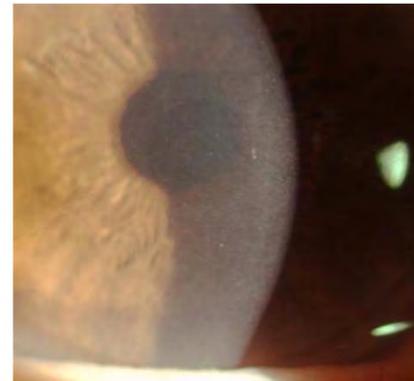
1 month



1 week: UCDV: 20/40, UCNV: J1



2 months



Vue+ in an emmetrope



Near Zone

Distance Zone

Methods: The corneal inlays (Vue⁺, ReVisionOptics, Lake Forest, CA) were implanted under corneal flaps in the non-dominant eye immediately after bilateral LASIK treatment (using the FS200 femtosecond and EX500 Excimerlasers by Alcon/Wavelight) for myopia (4) or hyperopia (23). Pre-operatively, the subjects had a distance-corrected near add requirement of 1.5 to 2.25 D (mean 1.9 D). UCNVA was between 20/20 and 20/63 (mean 20/32) for the myopes, and between 20/40 and 20/200 (20/100) for the hyperopes. UCIVA ranged between 20/32 and 20/100 (mean 20/50) for the myopes, and between 20/40 and 20/160 (20/80) for the hyperopes. UCDVA was between 20/100 and 20/160 (mean 20/125) for the myopes, and between 20/25 and 20/125 (20/50) for the hyperopes.

Results: At 1 month (n=19), the mean UCNVA of the treated eye was 20/25 (J1), corresponding to 5 lines of improvement, with no eyes worse than 20/40 (J3). UCIVA in the treated eye improved to an average of 20/25, corresponding to 4 lines of improvement. UCDVA in the treated eye improved by an average of 2½ lines at 1 month and by 4 lines binocularly to an average of 20/20 with no patient worse than 20/25. Average post-op acuities were calculated across both groups of patients as differences between the groups were small. At 3 months (n=11), vision remained stable. Full 3-month results will be presented.

Conclusions: The Vue+ corneal inlay has the potential to offer significant improvement in near and intermediate vision when used in combination with LASIK aiming to correct distance vision.

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