Customization and Ablation for a Broad Range of Patient Populations (1) [1]

Disclaimer:
Footnotes:

References

* As compared to conventional PRK.
+ The results presented in this section are from a prospective, non-randomized study of 230 eyes that had myopia with or without astigmatism and that were treated with topography-guided LASIK with the ALLEGRETTO WAVE® Eye-Q Excimer Laser System. Eyes had nearsightedness up to -9 D and astigmatism up to 6 D.
? Pentacam is a trademark of OCULUS Optikgeräte GmbH.

1. Date on File / WaveLight® EX500 Excimer Laser User Manual.
2. Mrochen M, Donitzky C, Wüllner C, Löffler J. Wavefront Optimized® ablation profiles: theoretical background. J Cataract Refract Surg. 2004;30:775-785.
3. Kanellopoulos AJ, Binder PS. Management of corneal ectasia after LASIK with combined, same-day, topography-guided partial transepithelial PRK and collagen cross-linking: the Athens Protocol. J Refract Surg. 2011;27(5):323-331.
4. Coskunseven E, Jankov MR, Grentzelos MA, et al. Topography-guided transepithelial PRK after intracorneal ring segments implantation and corneal collagen CXL in a three-step procedure for keratoconus. J Refract Surg. 2013;29(1):54-58.
5. Anera RG, et al. Changes in corneal asphericity after laser refractive surgery, including reflection losses and nonnormal incidence upon the anterior cornea. Opt Lett. 2003;28:417-419.
6. Cummings A. Innovations in excimer laser refractive technology – focus on the WaveLight® EX500 Excimer Laser System. Eur Ophthalmic Rev. 2010;4:44-46.
7. Data on File / WaveLight® FS200 Femtosecond Laser User Manual.
8. Stulting RD, Fant BS. Results of topography-guided laser in situ keratomileusis custom ablation treatment with a refractive excimer laser. J Cataract Refract Surg. 2016;42;11-18.
9. PERS - Declaration of Conformity for WaveLight EX500 (Nov 2017)
10. Procedure Manual EX500 (1016) rev04 2017-02-27
11. Analysis of ethanol effects on corneal epithelium PubMed: https://www.ncbi.nlm.nih.gov/pubmed/23674759 [2]
12. Epi-LASIK: comparative histological evaluation of mechanical and alcohol-assisted epithelial separation PubMed: https://www.ncbi.nlm.nih.gov/pubmed/?term=Epi-LASIK%3A+comparative+histo... [3]
13. Single-Step Transepithelial PRK vs Alcohol-Assisted PRK in Myopia and Compound Myopic Astigmatism Correction PubMed: https://www.ncbi.nlm.nih.gov/pubmed/?term=3 [4])%09Single-Step+Transepithelial+PRK+vs+Alcohol-

Assisted+PRK+in+Myopia+and+Compound+Myopic+Astigmatism+Correction

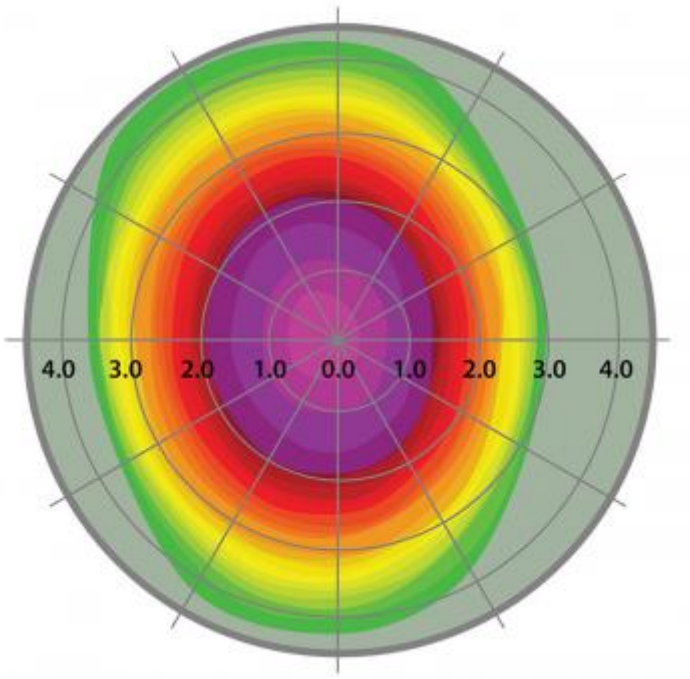
Tab:

Treatments [5]

- **Contoura® Vision** / Topography-Guided treatments
- **StreamLight™** One-Step Transepithelial PRK treatments
- **Wavefront Optimized®** treatments
- Wavefront-Guided treatments
- Asphericity-Guided (**Custom Q™**) treatments
- PTK treatments

Contoura Vision [6]

Highly customizable topography-guided LASIK for primary LASIK treatments



Contoura® Vision

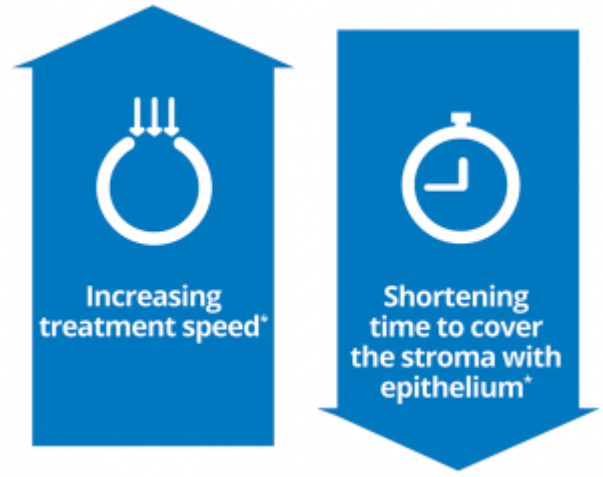
The topographic technology used for symptomatic eyes can be a powerful tool for primary LASIK:

- Fully mapping the cornea
- Integrates higher- and lower-order aberrations
- Builds on ***Wavefront Optimized***® fundamentals designed to maintain the cornea's natural aspheric shape[2]

Topography accounts for complex irregularities for a comprehensive ablation profile with optimized centration.

StreamLight Transepithelial PRK [7]

Elevating the standard: StreamLight™ one-step transepithelial PRK [3,4]



Intelligently designed for increased efficiency

- Custom PTK+PRK treatments with one streamlined WaveLight® procedure
- Multidimensional eye tracker active throughout procedure
- Automatically aligns size and location of PTK treatment zone with PRK ablation profile
- Requires only one centration for increased precision

Enhanced treatment experience for your patients

- Providing alcohol-free treatment, which is faster and quicker healing compared with alcohol PRK
- Requiring no additional alcohol impact time and no additional alcohol-related procedures

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Links
[1] https://www.wavelight.de/node/14536
[2] https://www.ncbi.nlm.nih.gov/pubmed/23674759
[3] https://www.ncbi.nlm.nih.gov/pubmed/?term=Epi-LASIK%3A+comparative+histological+evaluation+of+mechanical+and+alcohol-assisted+epithelial+separation
[4] https://www.ncbi.nlm.nih.gov/pubmed/?term=3
[5] https://www.wavelight.de/produkte-infos/wavelightr-ex500-excimer-laser/customization-and-ablation#tab-1
[6] https://www.wavelight.de/produkte-infos/wavelightr-ex500-excimer-laser/customization-and-ablation#tab-2
[7] https://www.wavelight.de/produkte-infos/wavelightr-ex500-excimer-laser/customization-and-ablation#tab-3