

X-LINKING

INNOVATIVE

Exclusive CF-CXL protocol
Customized, fast and safe



FLEXIBLE

Multiple treatment choice
Maximum flexibility for the ophthalmologist
Easy to use technology



SAFE

No haze
No corneal opacity
High endothelial protection
Improved patient compliance
Faster recovery



CERTIFIED

International patents
Validated by clinical studies
Scientific publications



Product	Description	Code	Certificates
CF X-LINKER	Corneal Cross-linking System	EMG001	CE 1936
RIBOCROSS te	Ophthalmic solution for Corneal Cross-linking	ITD001	CE 0373 EP n° 2 459 186 B1 USP n° 9192594 B2
RIBOFAST	Dextran free ophthalmic solution for Corneal Cross-linking	ITD003	CE 0373 EP n° 2 459 186 B1 USP n° 9192594 B2

Bibliography

- 1) "Evaluation of the penetration through human cornea of riboflavin 0.1% in solution with other molecules after trans-epithelial application" 1st EuCornea Congress, June 17-19 2010, Venice, Italy.
- 2) "Thickness and ultra-structural changes in keratoconus-affected human corneas after transepithelial cross-linking" American Academy of Ophthalmology Annual meeting, October 2010, Chicago (P0073).
- 3) "A new riboflavin solution for trans-epithelial cross-linking: a study of corneal pharmacokinetic" American Academy of Ophthalmology Annual meeting, October 2010, Chicago (P0073).
- 4) Effects of UV-A rays on the corneal epithelial surface after topical application of riboflavin solutions: an electron microscope study" American Academy of Ophthalmology Annual meeting, October 2010, Chicago (P0073).
- 5) "Enhancement of corneal permeation of riboflavin-5'-phosphate through vitamin E TPGS: A promising approach in corneal trans-epithelial cross linking treatment". Inter J Pharm 440 (2013) 148- 153.
- 6) "A Mathematical Model of Corneal UV-A Absorption After Soaking With a Riboflavin Solution During Trans-epithelial Cross-linking". 1st joint International Congress Refractive Online & SICSSO National Congress, July 7-9, 2011, Grosseto, Italy (Best paper, podium presentation).
- 7) "UV-A rays absorption in human corneas before and after trans-epithelial riboflavin application: an experimental study" 2nd Joint International Congress Refractive Online & SICSSO National Congress, June 28-30, 2012, Rome, Italy (Podium presentation).
- 8) "Trans-epithelial cross-linking with riboflavin solution: one-year clinical results" 1st joint International Congress Refractive Online & SICSSO National Congress, July 7-9, 2011, Grosseto, Italy (Podium presentation).
- 9) "Trans-epithelial cross-linking with riboflavin solution: two-year clinical results" 2nd joint International Congress Refractive Online & SICSSO, Rome 2012 (podium presentation).
- 10) "Transepithelial Corneal Cross-Linking With Vitamin E-Enhanced Riboflavin Solution and Abbreviated, Low-Dose UV-A: 24-Month Clinical Outcomes" Cornea 2016;35:145-150.
- 11) "Corneal Cross-Linking: Evaluating the Potential for a Lower Power, Shorter Duration Treatment" Cornea 2016;35:659-662.
- 12) "Customized Corneal Cross-linking - A Mathematical Model" Cornea 2017;36:600-604.



CROSS-LINKING
uncompromised


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R&D



Manufacturing



Worldwide Marketing
& Distribution



CUSTOM FAST



Ophthalmic solutions for Corneal Cross-linking

Corneal Cross-linking System

CF X-LINKER® system allows to select different corneal cross-linking treatments, giving medical professionals the maximum flexibility, to meet every patient' needs:



Customized EPI-ON based on patient corneal parameters



15 minutes soaking with RIBOCROSS te/RIBOFAST



Low intensity UV irradiation



Treatment time max 25-30 minutes



Treatment Selection

- EPI-OFF CXL: Dresden protocol
- Iontophoresis CXL
- EPI-ON CXL: Custom Fast Corneal Cross-linking (CFXL)*
- CXL for keratitis treatment

*only with RIBOCROSS te® and RIBOFAST ophthalmic solutions

Indications

- Keratoconus
- Corneal Ectasias
- Post PRK/LASIK/RK ectasias
- Irregular astigmatism
- Pellucid Marginal Degeneration
- Infectious Keratitis

Goals

- Stabilization and halt of Keratoconus' progression
- Corneal profile improvement
- Corneal biomechanics improvement
- Aberrations improvement
- Visual improvement

Optimized user experience

- Touchscreen display with easy to use interface
- Mains and battery operated
- Detailed treatment report

Patented solutions for every CXL protocol

SERVimed developed patented solutions, CE certified as Medical Devices, that can be used in every Corneal Cross-linking protocol, with every UV device on the market.

RIBOCROSS te®

Ophthalmic Solution with Vitamin E TPGS and 10% Dextran



- CE Medical Device
- Patented
- Corneal penetration enhancer
- Maximum effectiveness in both EPI-ON and EPI-OFF
- Can be used with every protocol and UV device on the market
- Can be used in CUSTOM FAST CXL protocol

RIBOFAST

Dextran free Ophthalmic Solution with Vitamin E TPGS



- CE Medical Device
- Patented
- Corneal penetration enhancer
- Maximum effectiveness in both EPI-ON and EPI-OFF
- Can be used with every protocol and UV device on the market
- Can be used in CUSTOM FAST CXL protocol



PRE



POST

Cross-linking in complete safety

- Non-invasive, painless treatment
- No post-treatment haze or corneal opacity
- No need for therapeutic contact lenses

Photo courtesy Dr. Leopoldo Spadea