



A case study:
**the Flattening Effect
of EPI-ON Cross-Linking**

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No financial interest

Purpose & Methods

Purpose: to evaluate a 2 years flattening effect of epi-on cross-linking in posttraumatic keratitis

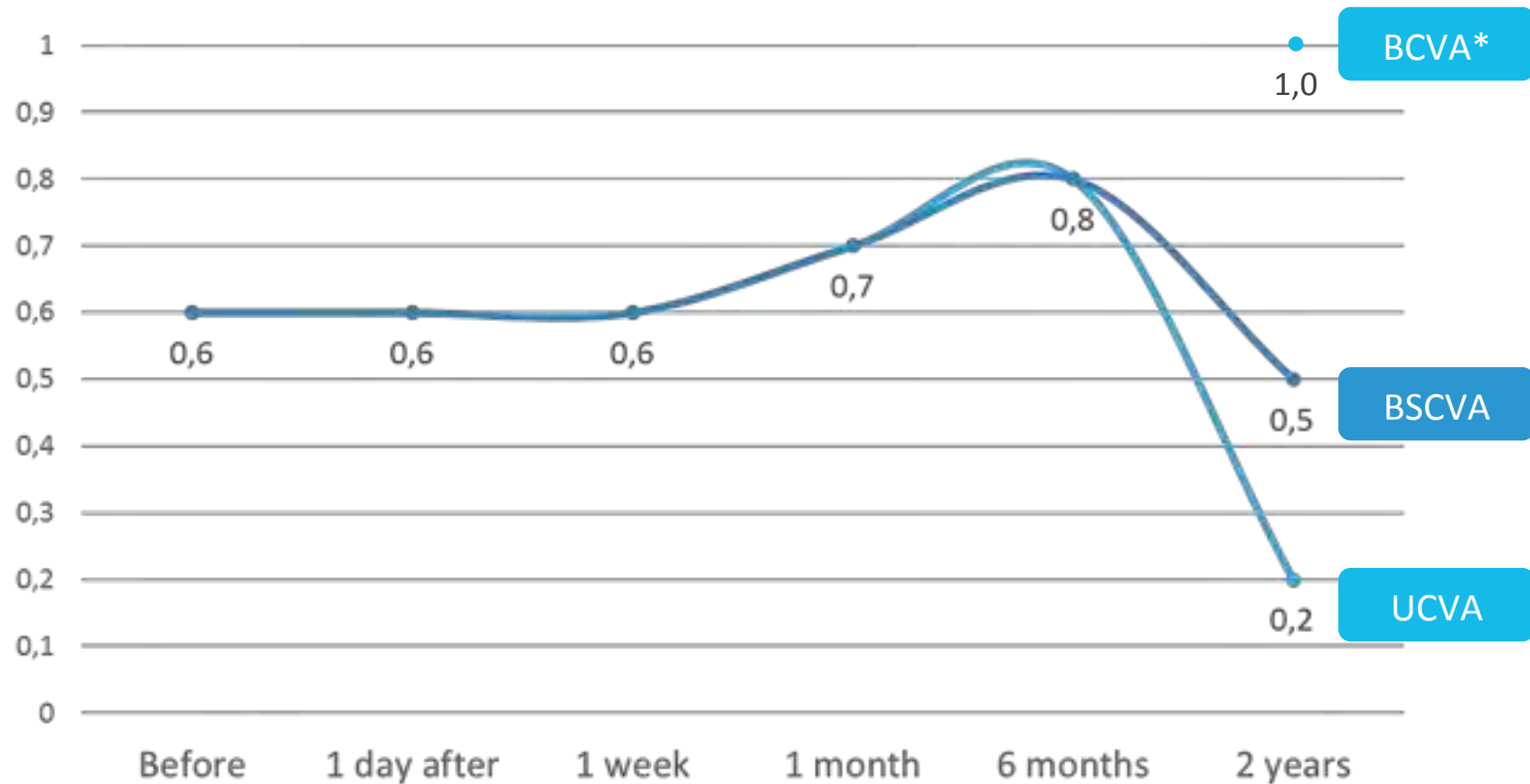
Patient: 47 y/o, male (OD)

Methods:

- Epi-On CXL
- UCVA
- BSCVA
- autorefractometry
- pachymetry
- central keratometry
- OCT

Keratitis was unsuccessfully treated **conservatively** more than half a year after a **blunt injury**

Visual Acuity Dynamics

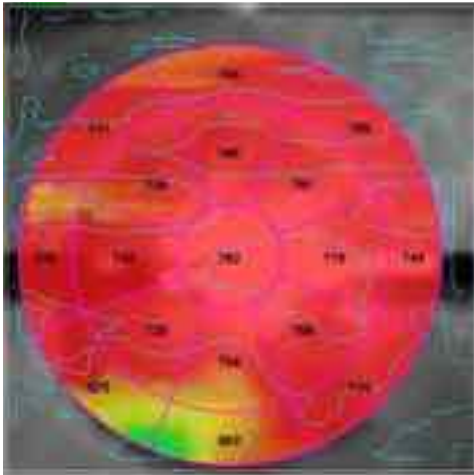


*BCVA = 1,0 with Digiform BC 9,0 mm +3,0 D scleral lens

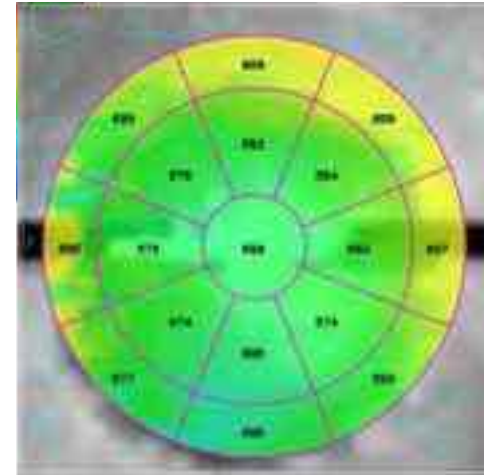
Results

		Before	After 2 years
Clinical refraction		Em	Hm 3 D
Physical refraction	K_1	42,5 D	36,5 D
	K_2	43,0 D	37,0 D
Central keratometry	R_1	7,8 mm	9,0 mm
	R_2	7,7 mm	8,6 mm
Pachymetry		762 μm	569 μm

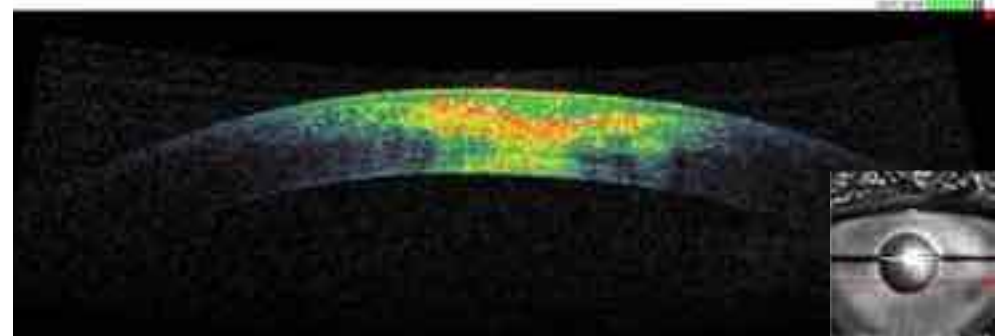
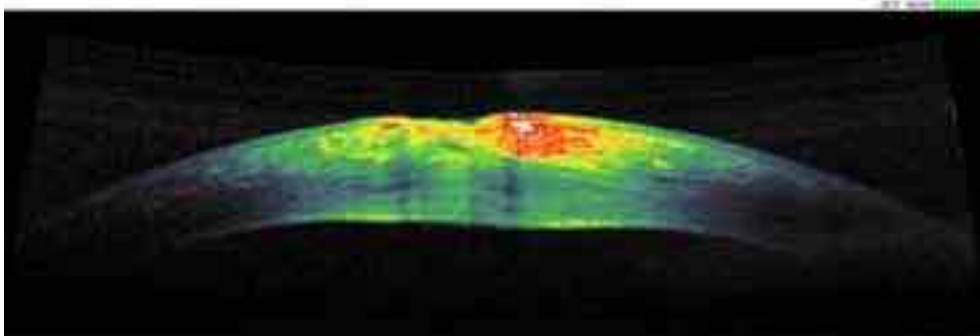
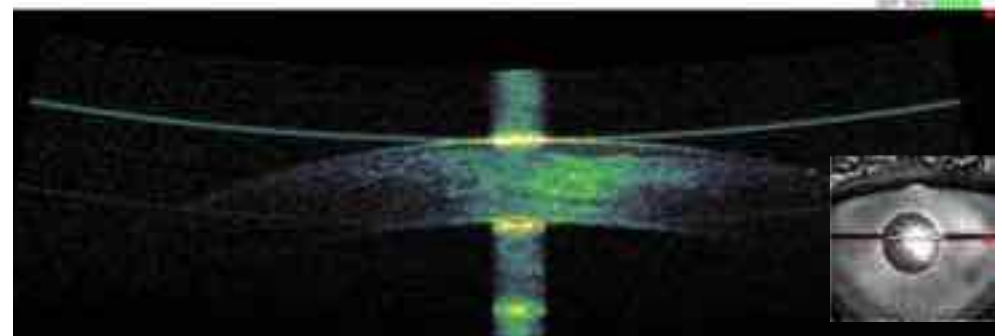
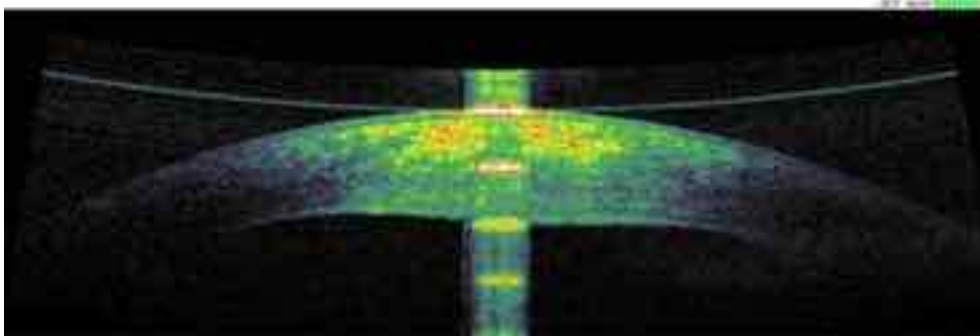
OCT



Before CXL



2 years after



Conclusions

Epi-on cross-linking in **2 years** period:

- flattened the cornea in approximately 1.0 mm;
- weakened physical refraction in near 6,0 D;
- weakened clinical refraction in near 3,0 D.

More investigations are necessary for better understanding of the phenomenon.

Thank you for your interest



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