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The KC Topic is So controversial!!!!! Do we have a guideline/Answer for cases?

SPECIAL ARTICLE.

Global Consensus on Keratoconus and Ectatic Diseases

Just A. P. Gones, MD. PhD,* Donald Tax, MD, PhD,† Christopher J. Reputate. MD,J Michael W. Belin, MD.5 Renato Ambrósia, Jr. MD, PhD, F José L. Guell, MD: | François Malexane, MD, P6D.** Kohji Nishida, MD,17 and Firender S. Sangsuan, MD,11, the Group of Panelosis for the Global Delphi Panel of Keratocomas and Estatic Diseases

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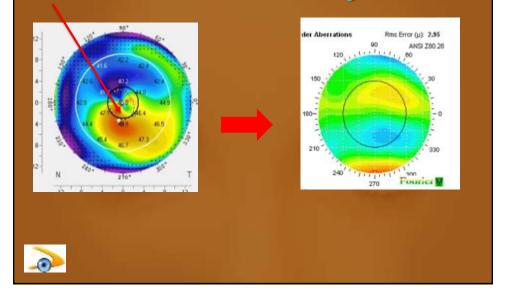
We Should Revise the Definition of KC!!

KC is considered now as a "Controllable" "Treatable"

Primary ectatic disease in which we can now: Early diagnose/ halt the progression/ provide good vision using the patient own cornea.

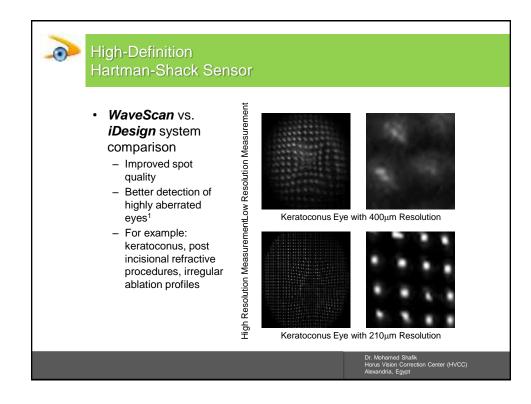


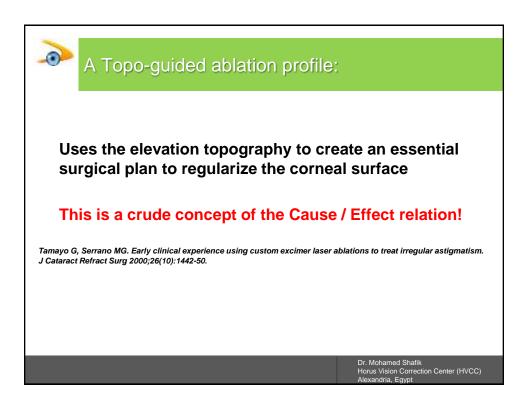
The extreme irregularity of the pupil entrance is the main reason for visual degradation



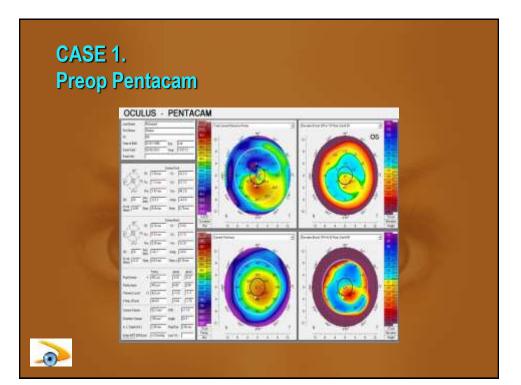


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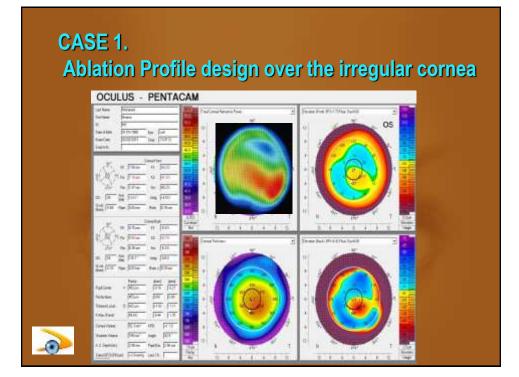


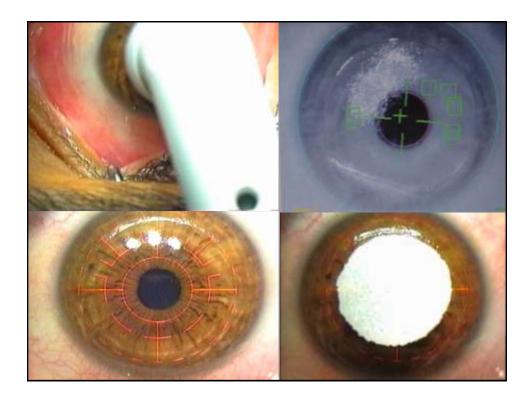


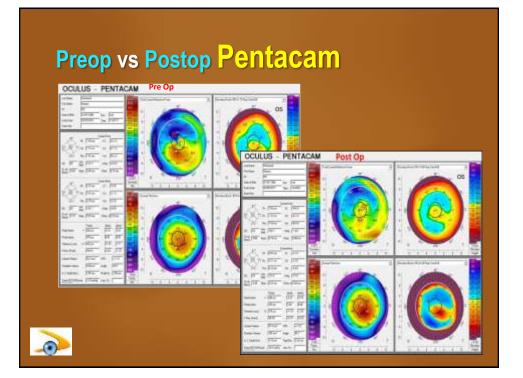
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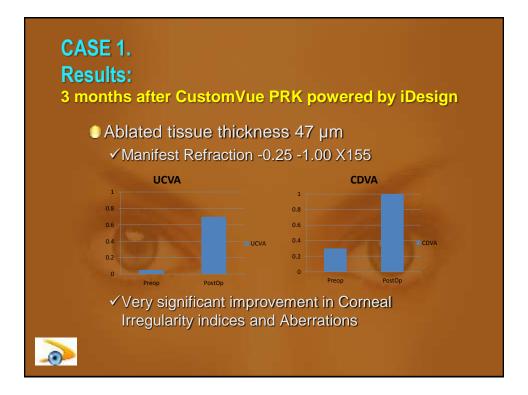


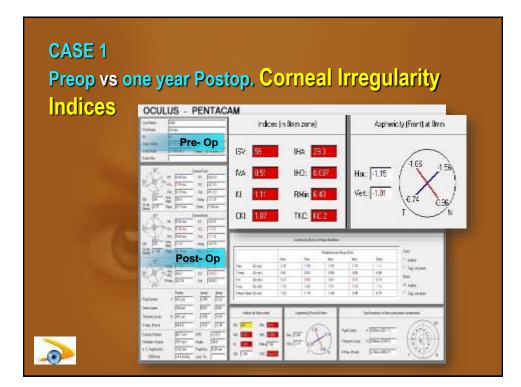


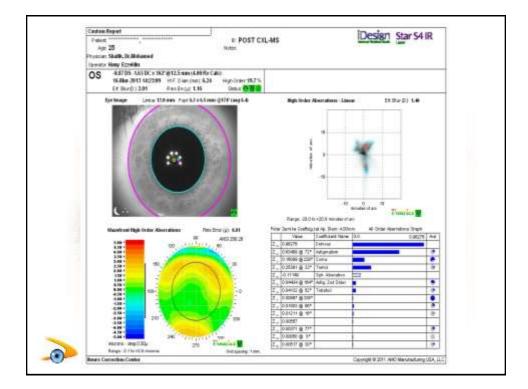








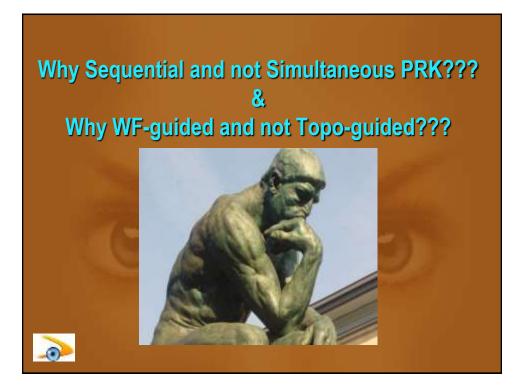


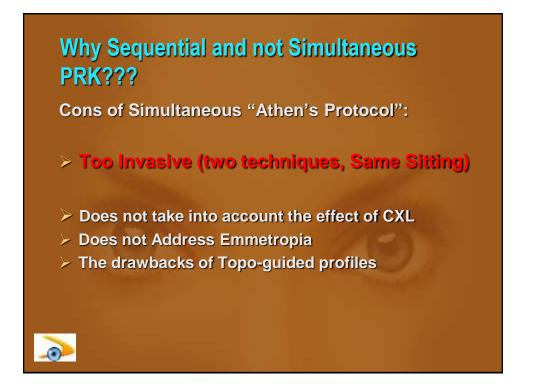


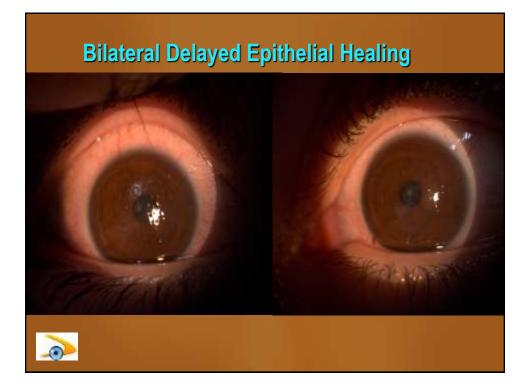


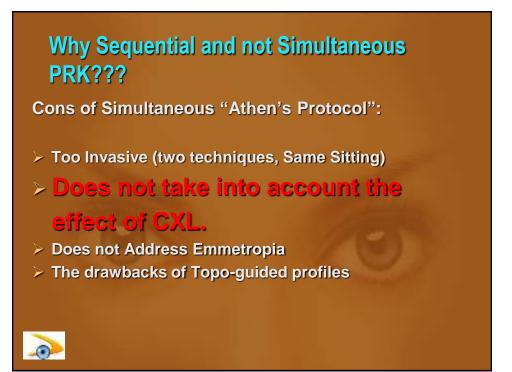
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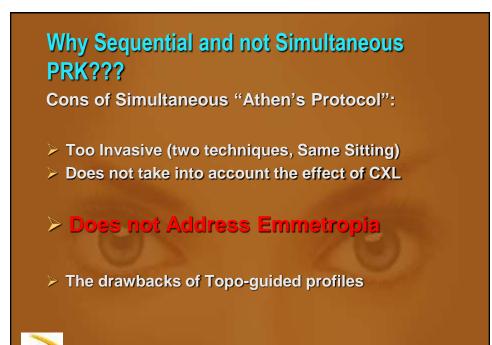












Why Sequential and not Simultaneous PRK???

Cons of Simultaneous "Athen's Protocol":

- > Too Invasive (two techniques, Same Sitting)
- > Does not Address Emmetropia
- > Does not take into account the effect of CXL
- > The drawbacks of Topo-guided profiles



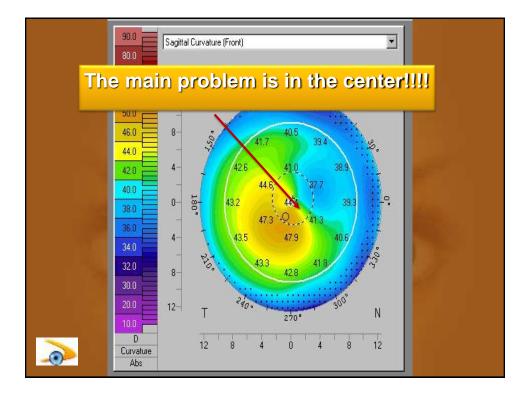
Why I am against Simultaneous Topo-PRK + CXL ?

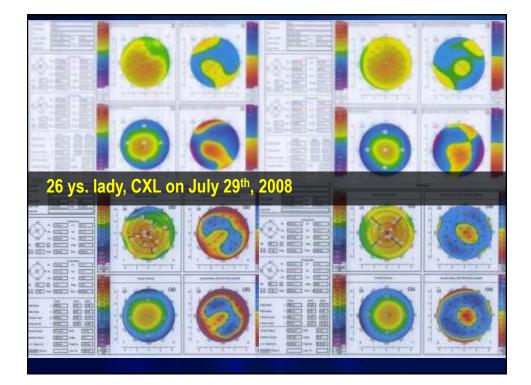
Topo-Guided Profile Uses the elevation topography to create an essential surgical plan to regularize the corneal surface

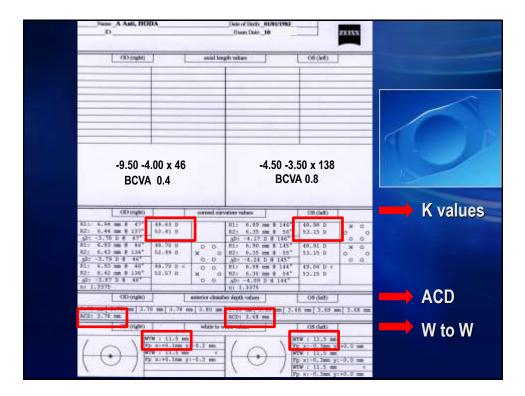
This is a crude concept of the Cause / Effect relation

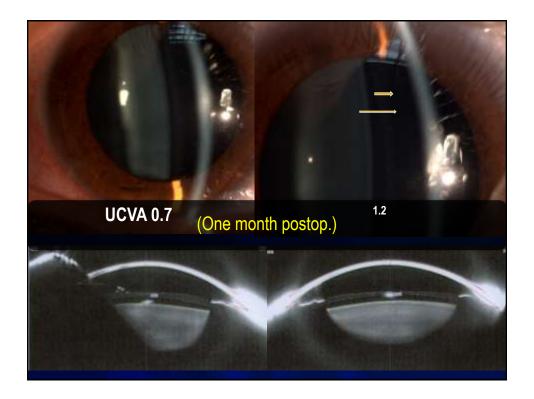
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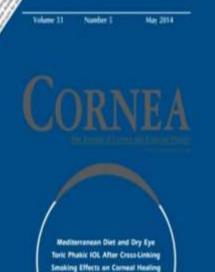


CLONENE SCHOOL **CORNEA 2014** Evaluation of a Toric Implantable Collamer Lens After Corneal Collagen Crosslinking in Treatment of Early-Stage Keratoconus: 3-Year Follow-up Mohaned Shafle Shaloon, MD, PhD.* Mohaned XI Kuth, MD, 1963* Mohaned & SS Samalaney, MD, PhD.* and Bacane Zaphinal. MD? Number 1 May 2014 - 11 er: The date of the study was to serve the probability, a soliny, and walkily in patients with moment a task sidig solitance have (TAT); after solitages considering in potencies and coread of humboorne in the 1 of the dense of or rised inputs - See dight dat, kits ay to be performent was look to Manache was "He base "Reg na wa fa me of the contain of the and her body off The name finalize designal (2014) improved lines (2.16 \pm (3.16 \pm 0.06 programming in 0.05 \pm 0.17 (maps), 0.06 space of the following (2.4 \pm 0.0001). The same (2014) and signalizably from 0.01 \pm 0.14 follow (2.1, implicit-ing operations). -----M = 1.15 also 3 years of the with the latest in ni oʻda Milari A light mar can be acho

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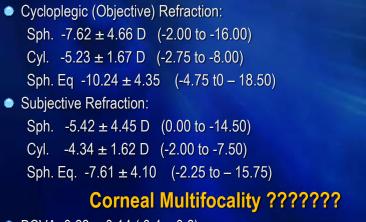


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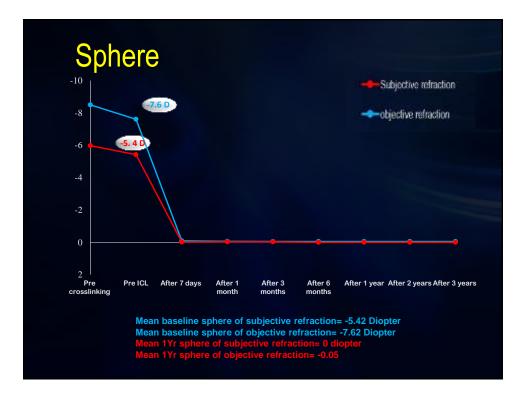
Case Series

- 51 eyes (32 patients: 21 females & 11males)
- CXL (9 ms. to 14 ms. Before ICL)
- Stable refraction for the past 3 monthly visits
- Mean age: 25.6 ± 4.1 ys. (21 33 ys.)
- First case was implanted in July 2008
- 32 eyes are followed up for > 86 months

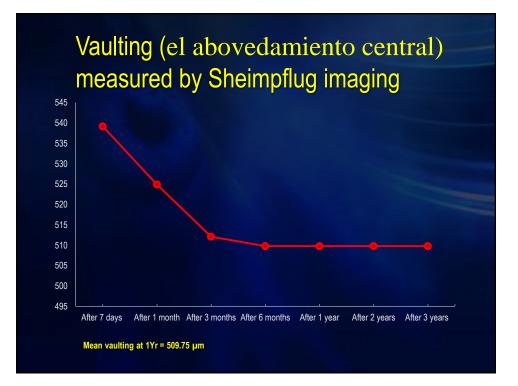
Case Series



● BCVA: 0.63 ± 0.14 (0.4 – 0.8)









Postoperative Results:

- UCDVA improved to 0.88 ± 0.18 (0.6 to 1.2!)
 100% gained one line or more
- Glasses independent
- No single major complication
- Residual Sphere and Cylinder

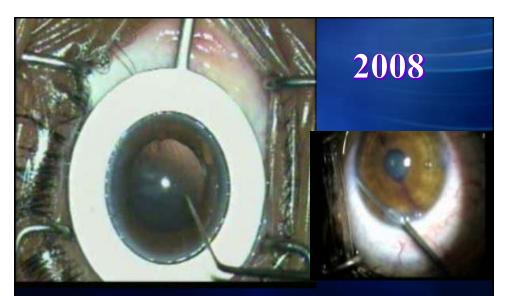
(Objective but not Subjective!)

Surgical Technique



Position TICL at proper axis according to diagram.





The lens is ALWAYS implanted temporally, and then either rotated clockwise or counterclockwise to match the patient axis.

2015 is Different!



CONCLUSIONS

- High-definition aberrometers are able to read highly aberrated corneas (such as in stable keratoconus) and generate out of them a dependable ablation profile which can be used to reduce refractive error / HOAs in such eyes and provide better quality of vision for those patients using their own corneas without the need for any type of keratoplasty.
- Wavefront-guided ablation profile seems to be a better alternative than the crude topography-guided ablation profile to address visual rehabilitation in stable keratoconic eyes.

- Sequential PRK for keratoconic eyes after doing corneal CXL seems to be a better alternative than simultaneous approach as it can address precisely the visual rehabilitation after having the maximum effect of CXL.
- Toric-ICL can do whenever the Sphere and Cylinder are beyond the limits of LVC

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