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## Orthokeratology – Understanding the Journey

Randy Kojima

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Host: Dr. Stephanie Woo

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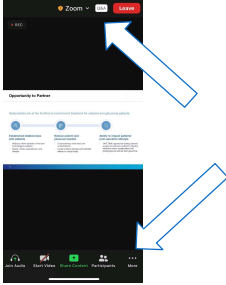
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**Speaker Bio**

Randy Kojima is the Clinical Research and Development Director for Precision Technology based in Vancouver, Canada. He also serves as Research Scientist and Clinical Instructor at the Pacific University College of Optometry in Forest Grove, Oregon. Additionally, he is a clinical advisor to Medmont Instruments in Melbourne, Australia.

Randy has published numerous articles and submitted posters on various contact lens related topics as well as been a contributing author in a number of text book chapters. He lectures globally and enjoys sharing insights, methods and research with eye care colleagues from around the world.

Randy is a Fellow of the American Academy of Optometry, the British Contact Lens Association, the Scleral Lens Education Society and the International Academy of Orthokeratology.



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### Financial Disclosures

- Precision Technology
- KATT Design Group
- Medmont International

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### Orthokeratology – Understanding The Journey

**Randy Kojima**  
FAAO, FECLA, FSL, FIAO

Pacific University Oregon

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### Pre-treatment: How do we begin?

**Right: -3.25 SPH**  
**Left: -3.25 SPH**

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### Right Eye: What should we analyze?

Flat K	44.99 D @ 179°
Steep K	46.26 D @ 89°
JK	1.67 D
Flat e	0.68 @ 179°
Steep e	0.55 @ 89°
IS Index	0.4 D
SAI	0.58
QSI	0.58
Pupil: Width	2.0 mm
MWD	11.4 mm
Sag. Differential at 8mm	0.25 mm
CH Chord	mm
Flat Ro	7.40 mm
Flat E @ 8mm	0.42
Steep Ro	7.40 mm
Steep E @ 8mm	0.45

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### Radius Considerations

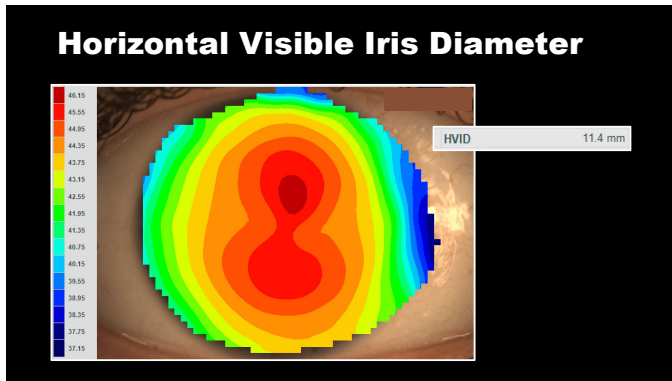
Flat K	44.99 D @ 179°
Steep K	46.26 D @ 89°
JK	1.67 D

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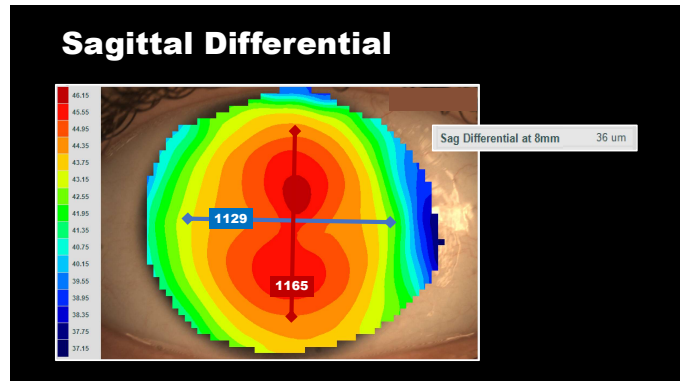
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Flat e	0.68 @ 179°
Steep e	0.55 @ 89°

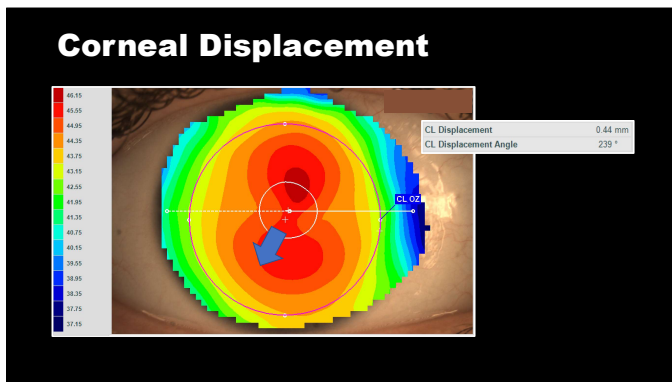
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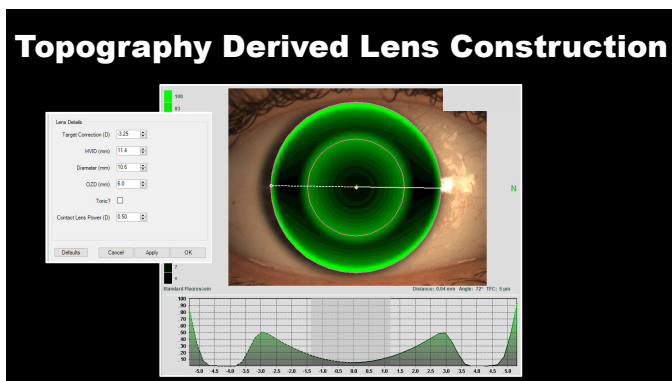


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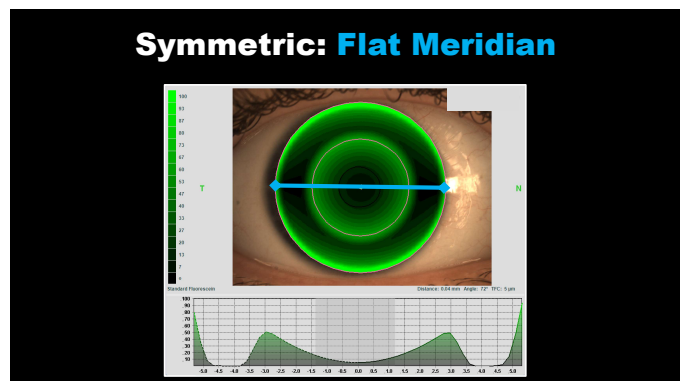
### How do you begin treatment?

A flowchart illustrating the treatment process. It starts with an 'Empirical' topographic map, leading to a 'Diagnostic Set' (a blue case), then an 'Inventory Set' (a laptop), then 'Topography Software' (a screen showing a green circle), and finally a 'Software Platform' (a screen showing a topographic map).

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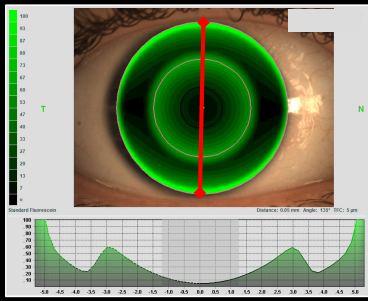


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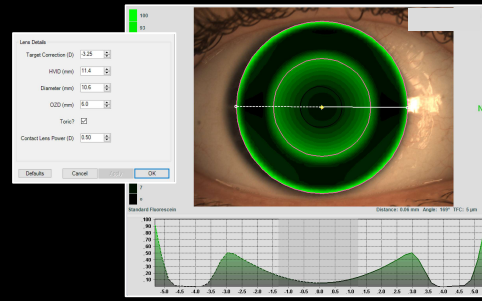
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### Symmetric: **Steep Meridian**



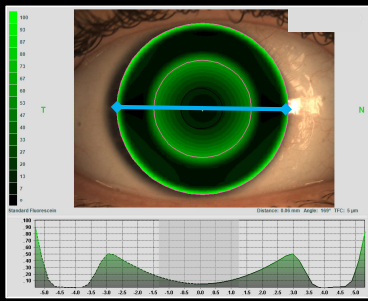
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### A need for toric construction



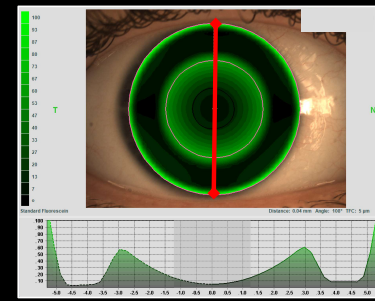
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### Toric Landing: **Flat Meridian**



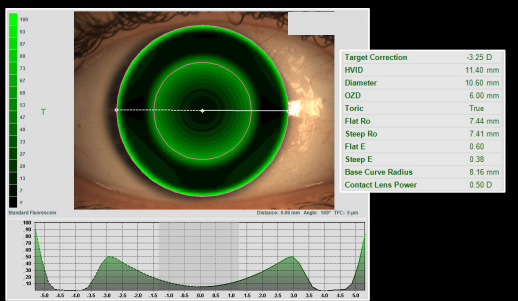
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### Toric Landing: **Steep Meridian**



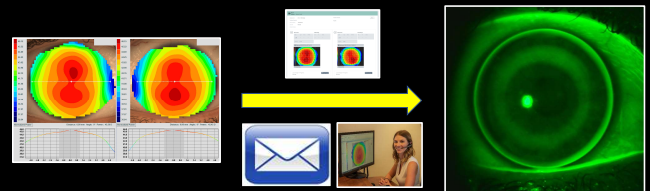
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### Lens Parameters



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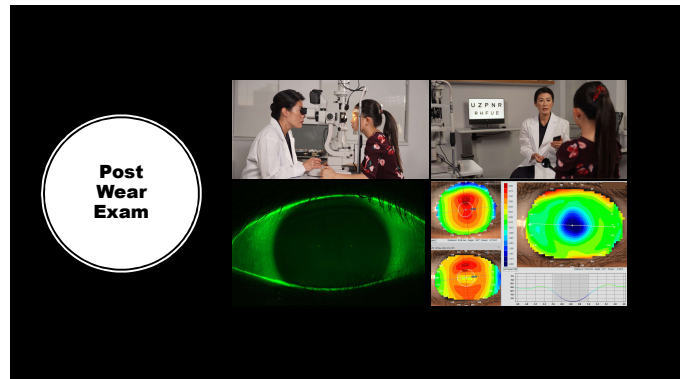
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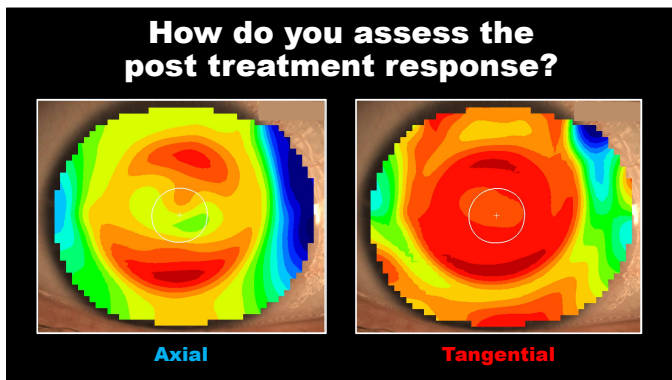
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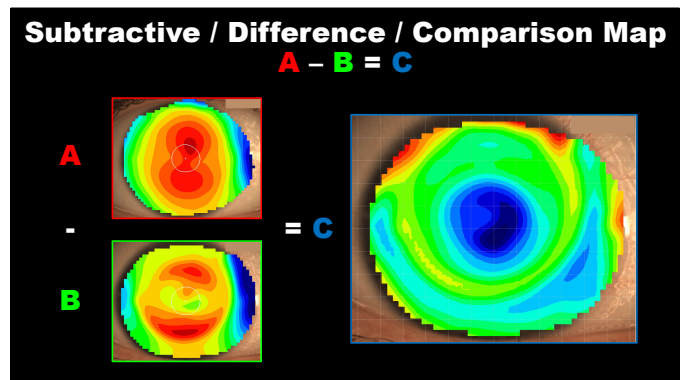
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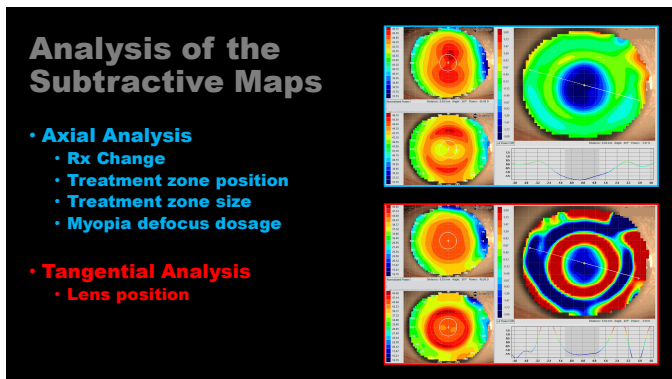
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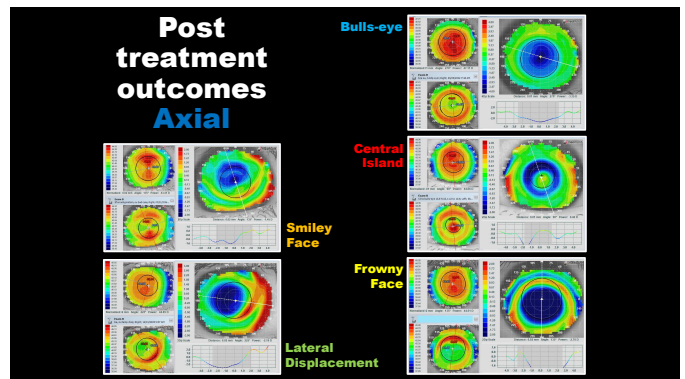
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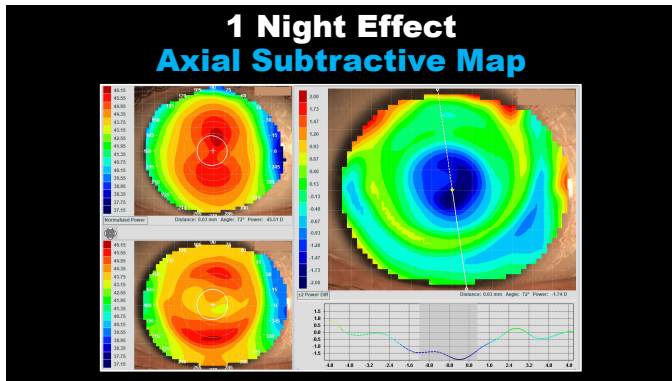
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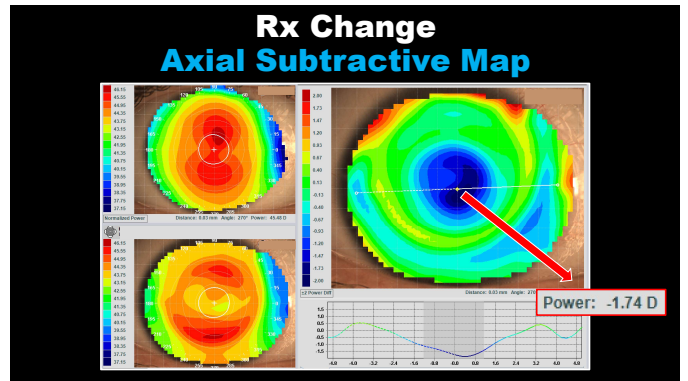
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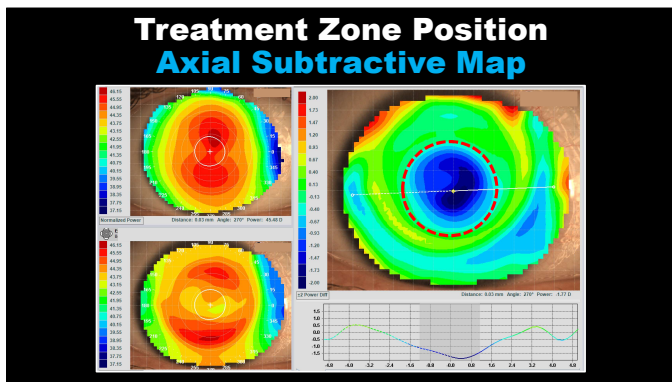
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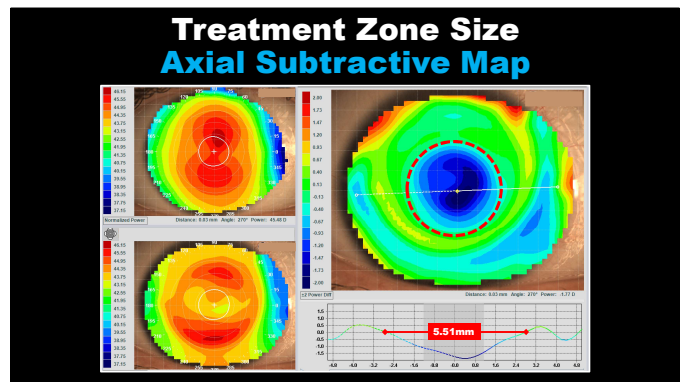
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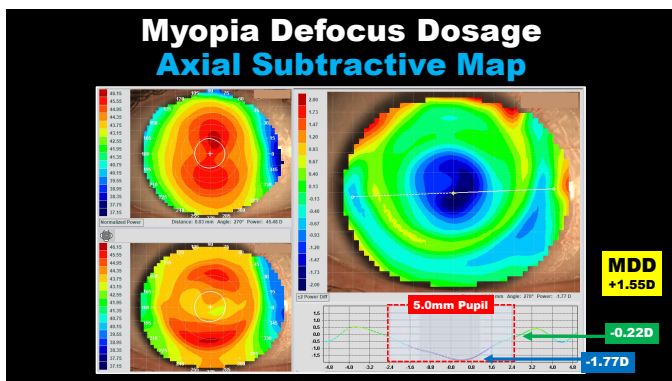
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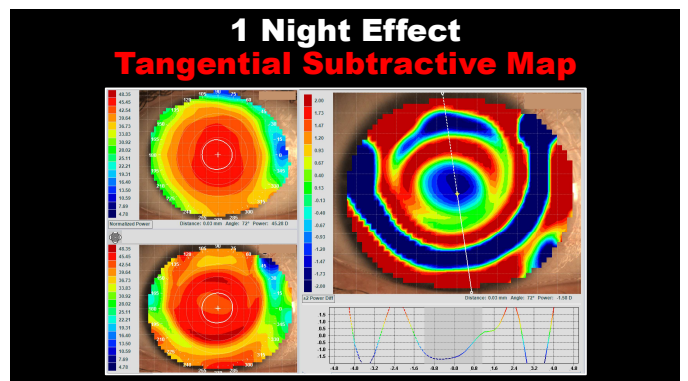
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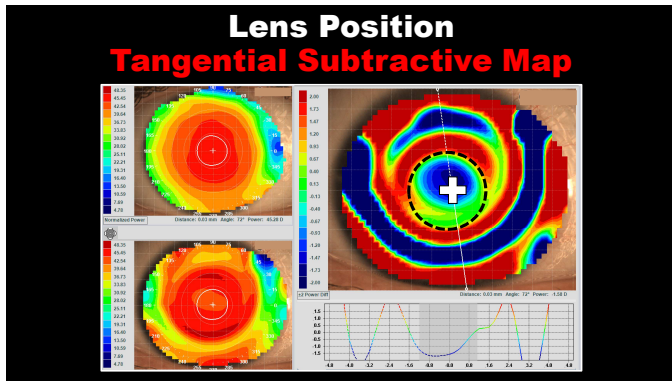
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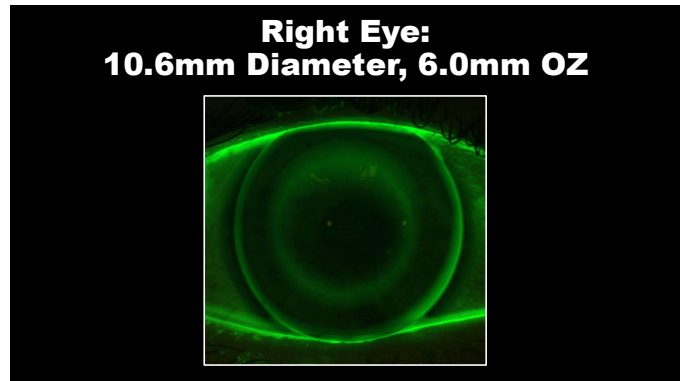
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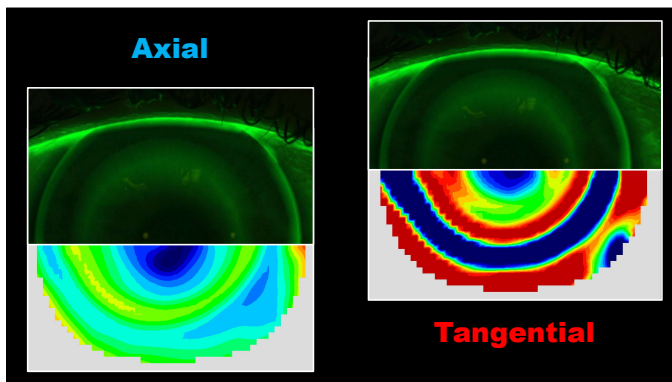
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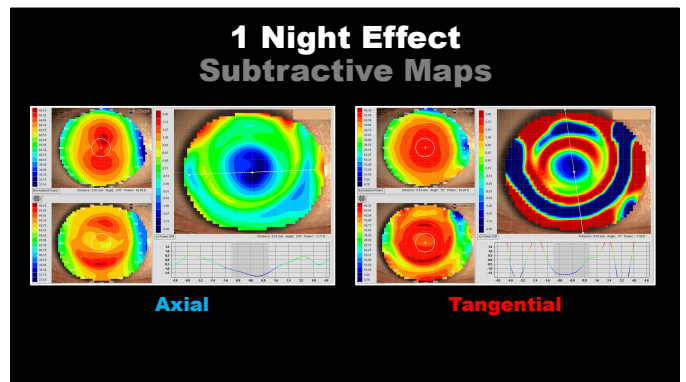
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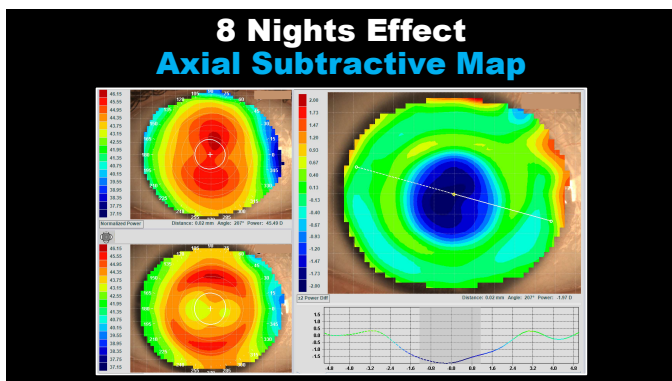
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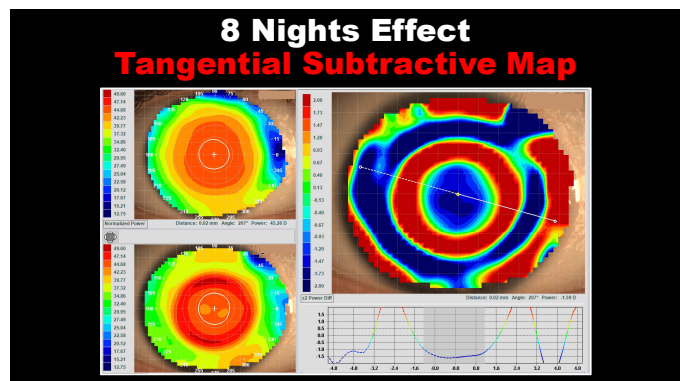
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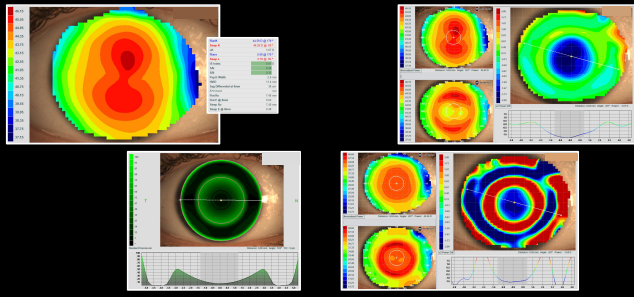


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### A tool to guide you through treatment



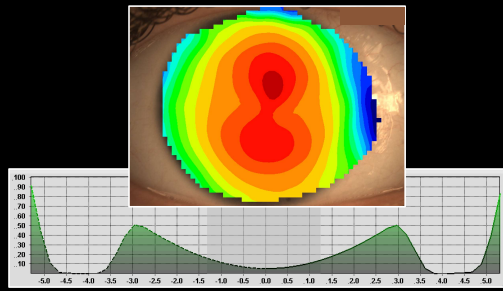
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### Topography Recommendations?



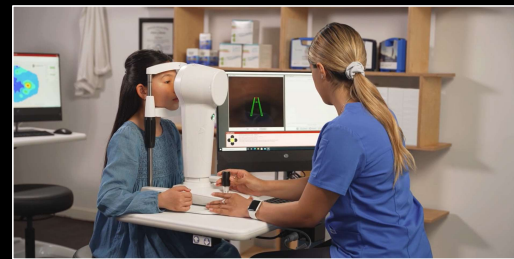
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### Accuracy required in orthok



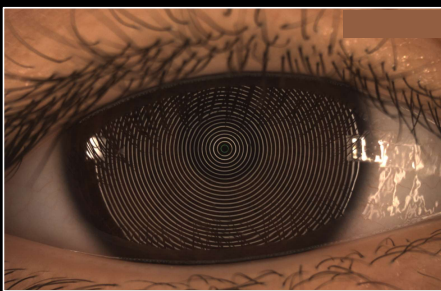
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### The most important contributor



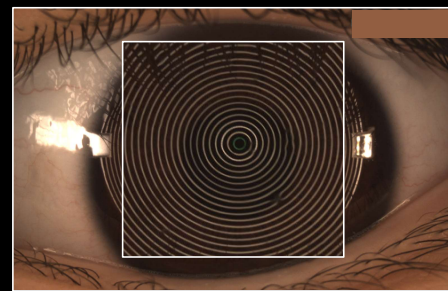
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### Coverage: Lids and Eyelashes



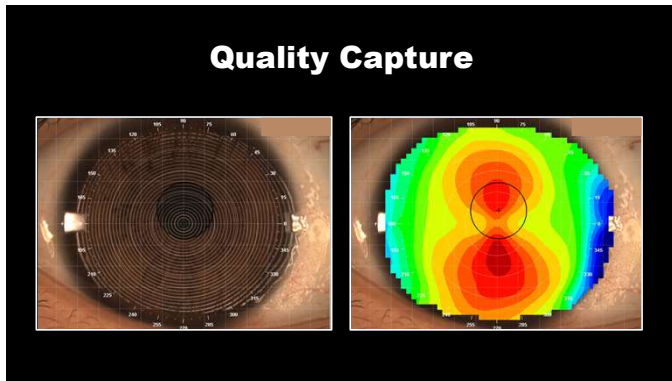
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### Ring Reflection

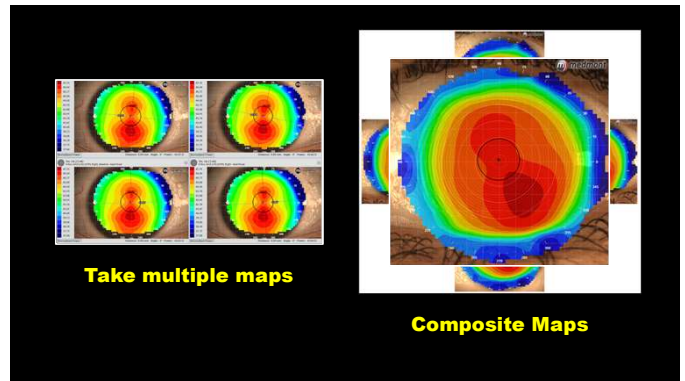


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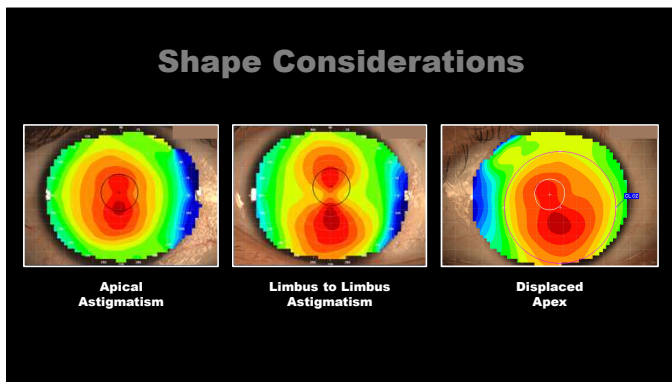




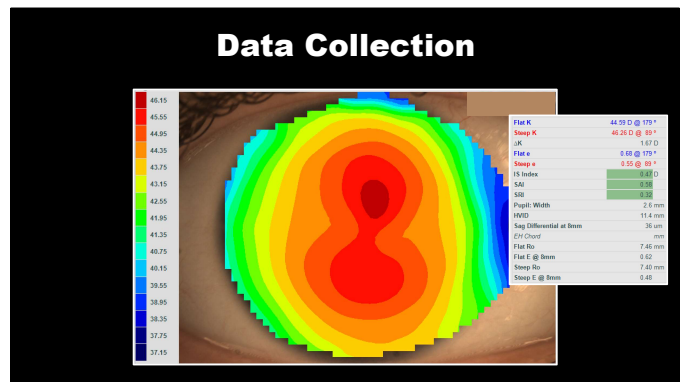
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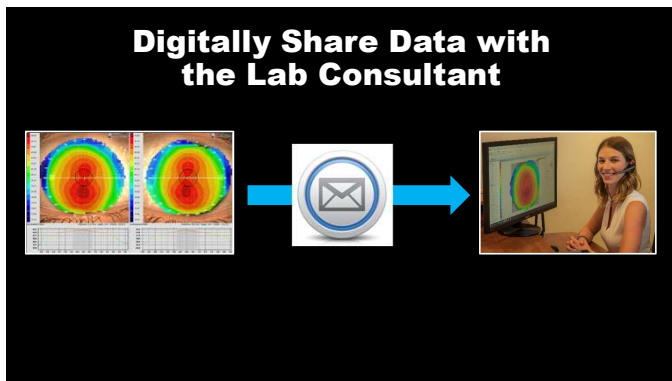
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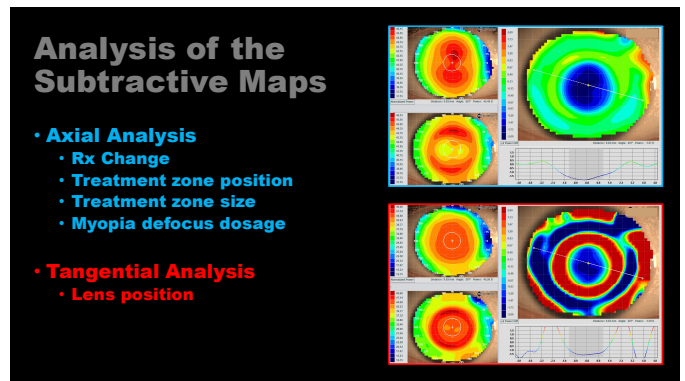
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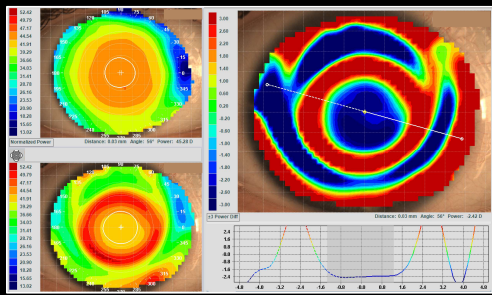


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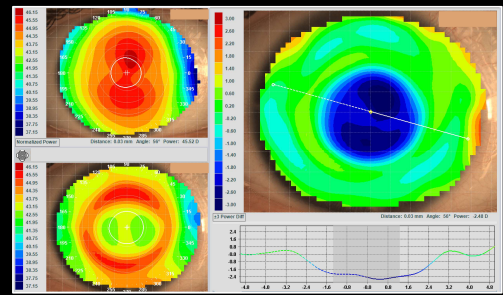
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### Tangential Subtractive Map



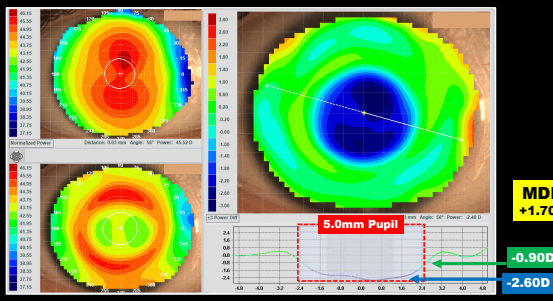
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### Axial Subtractive Map



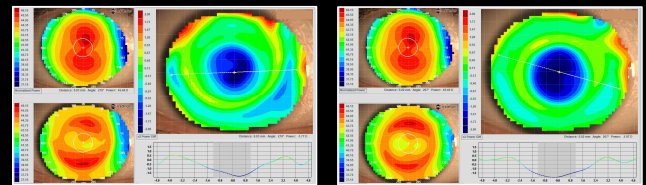
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### Axial Map: Myopia Defocus Dosage



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### Don't Rush to Conclusions



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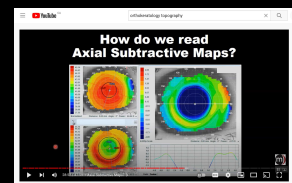
### Consultant Resources



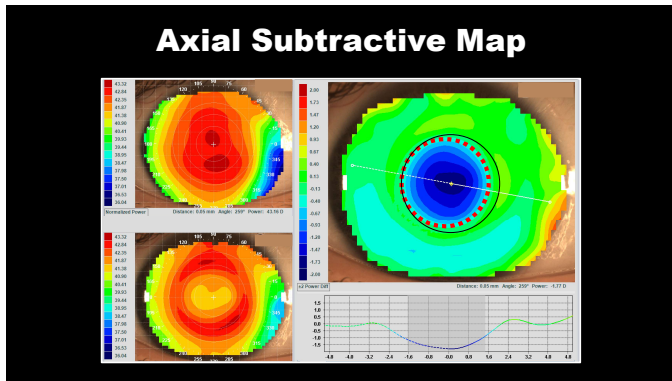
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### Topography Training Tools

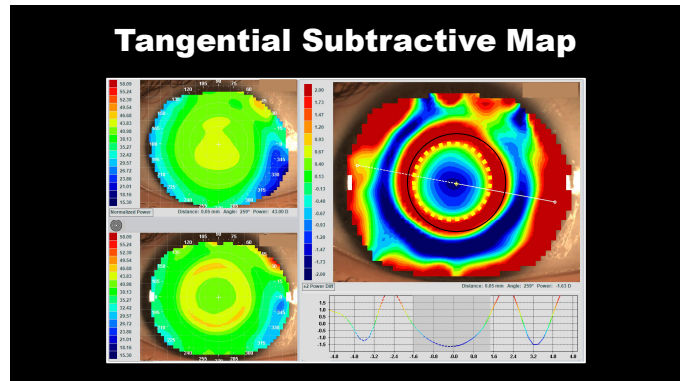
- Instrument manufacturer
- Lens Designers
- Associations
- Youtube



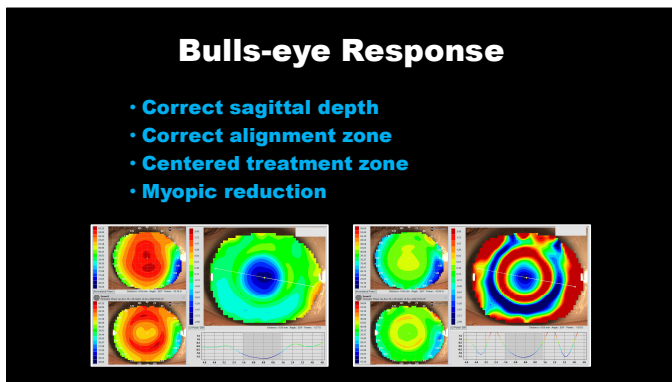
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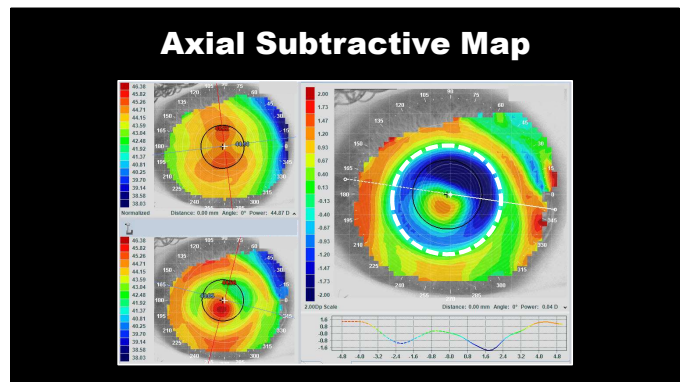
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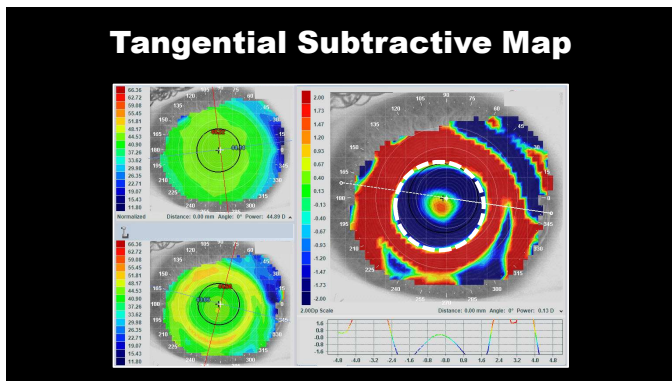
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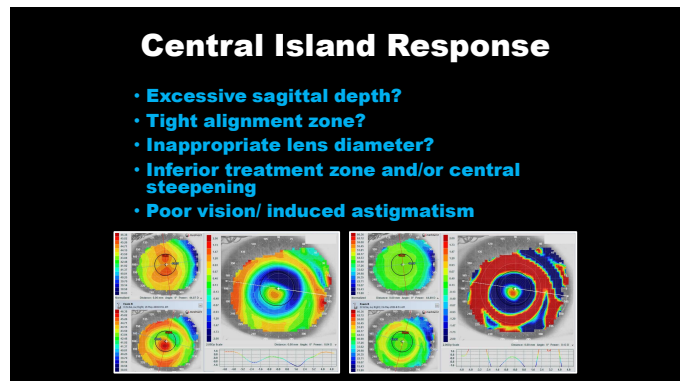
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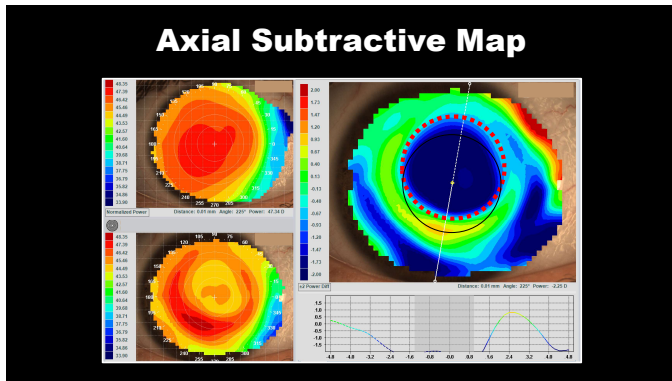
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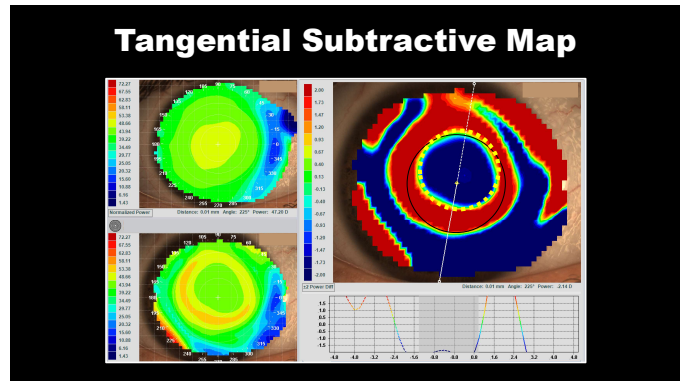
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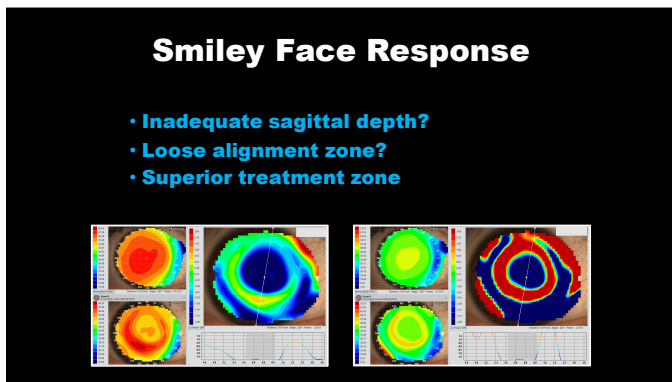
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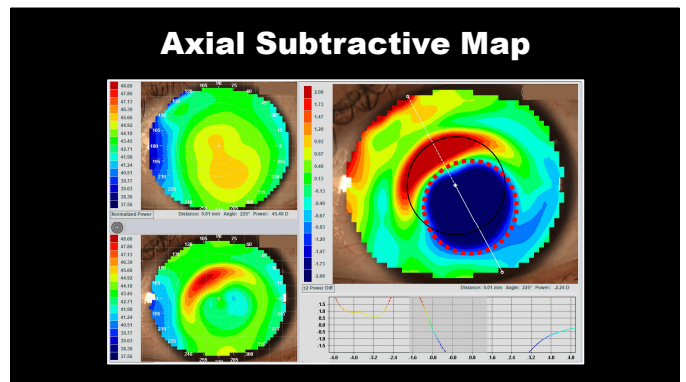
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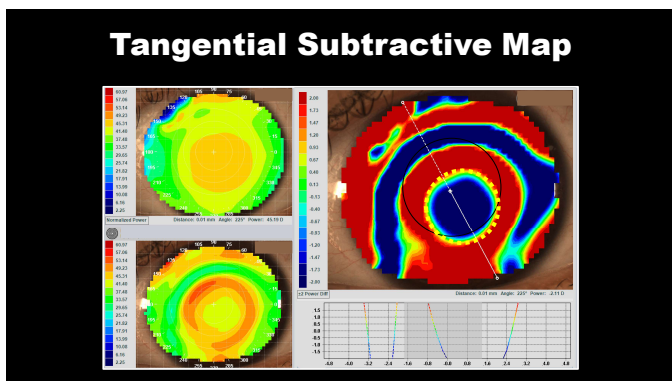
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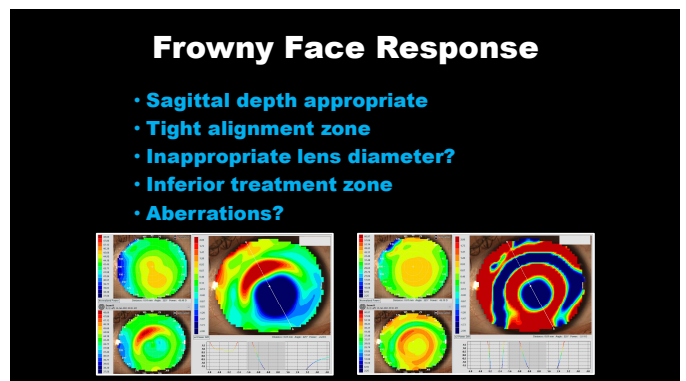
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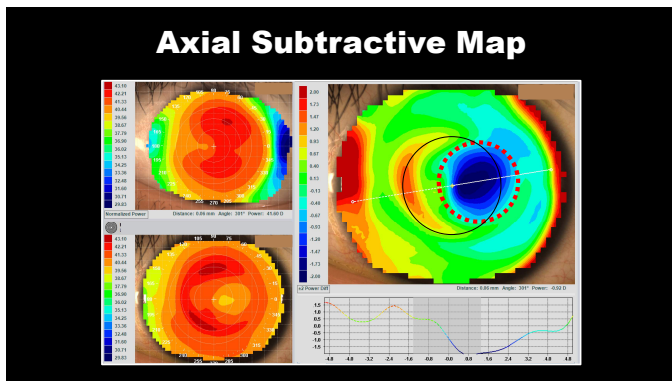
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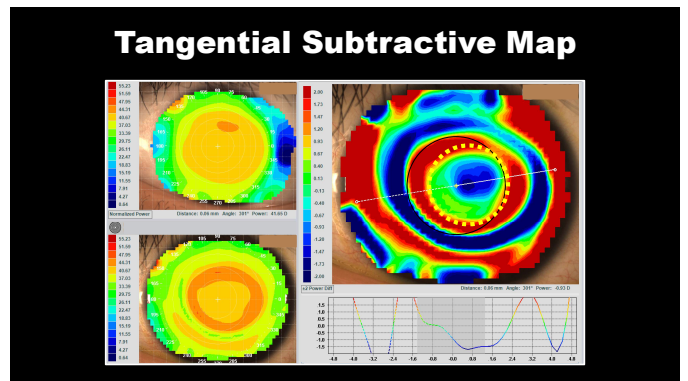
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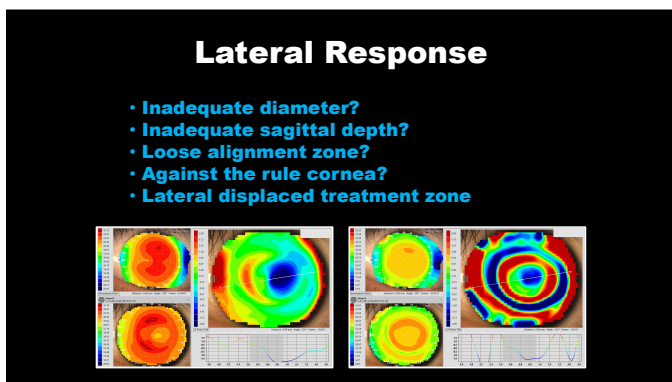
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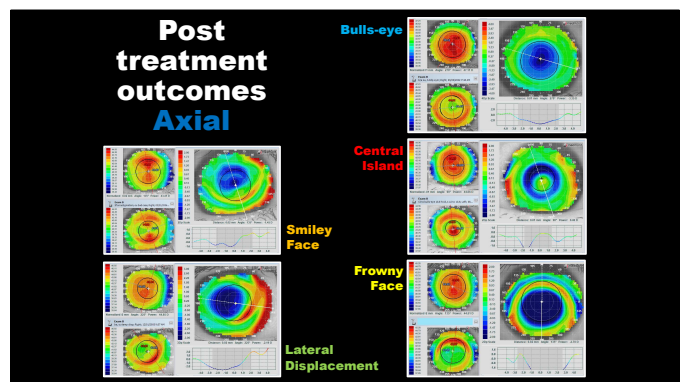
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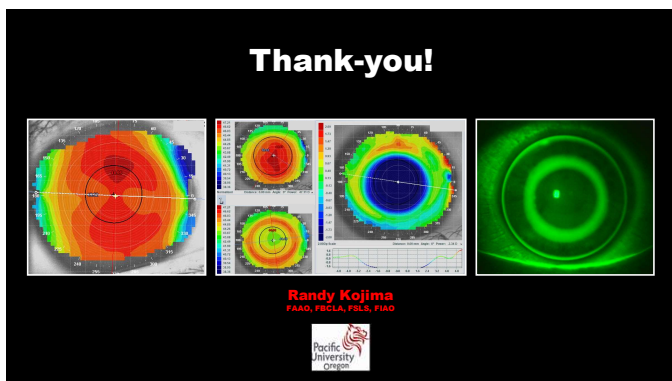
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