UNIVERSITY of HOUSTON COLLEGE of OPTOMETRY

Background

Myopia management is a means of slowing the progression of nearsightedness to reduce lifelong risk of other ocular comorbidities.^{1,2} While multiple options exist for the simple myope, there are limited toric soft multifocal and orthokeratology options.

Purpose

This will discuss a challenging case of a patient with moderate compound myopic astigmatism who elected to pursue orthokeratology.

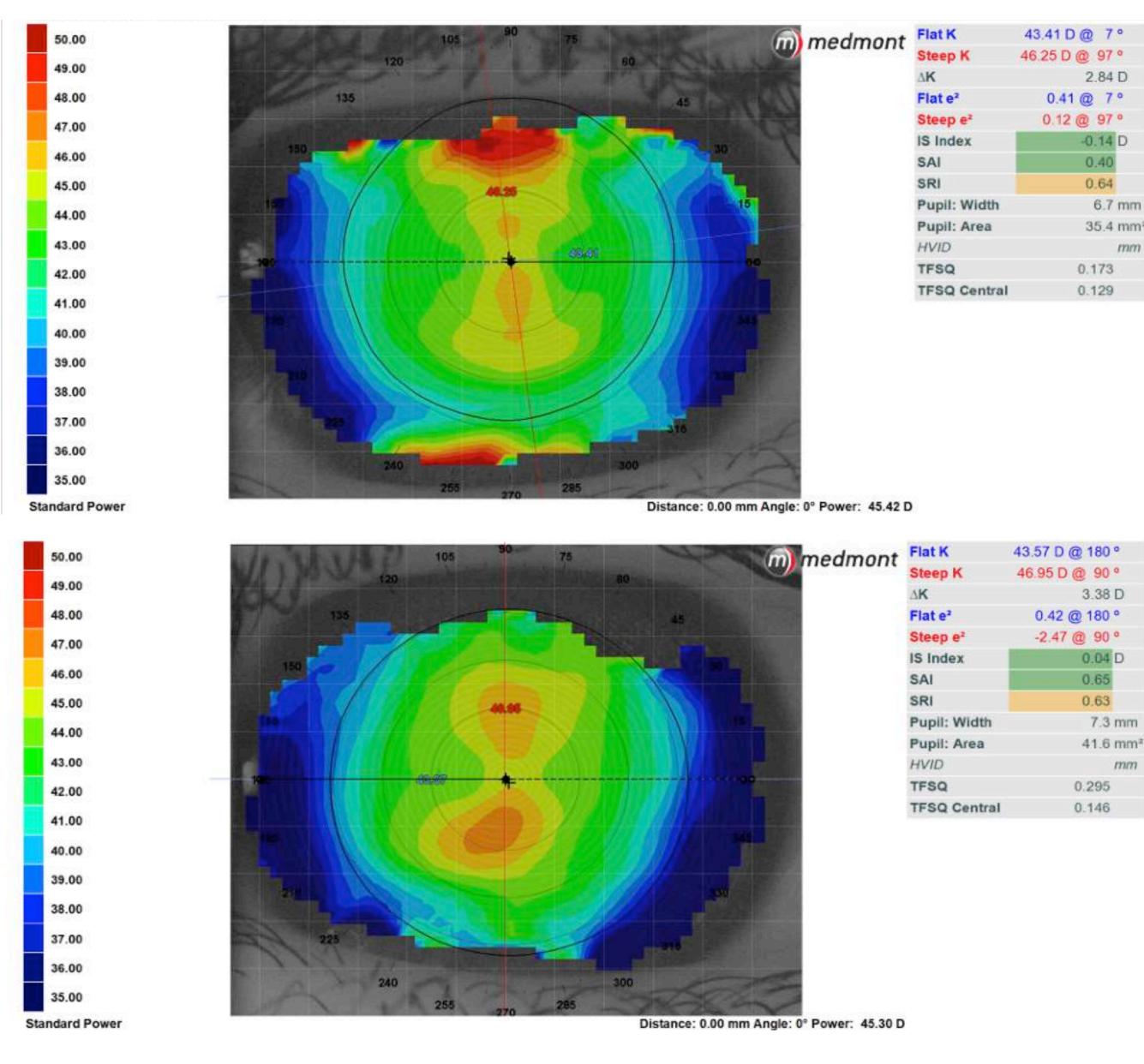
Methods

The patient was a 9 year old male fit in Euclid's Sapphire lens for myopia control. He had a reliable pre-treatment refractive error assessment and was followed with Medmont topography. The patient was followed at 1 day, 1 week and 1, 3 & 6 month intervals with refraction, topography and unaided visual acuities (VA).

Case

Baseline refractive error: OD: -4.75-2.25x168 (20/20) OS: -4.75-2.75x180 (20/20)

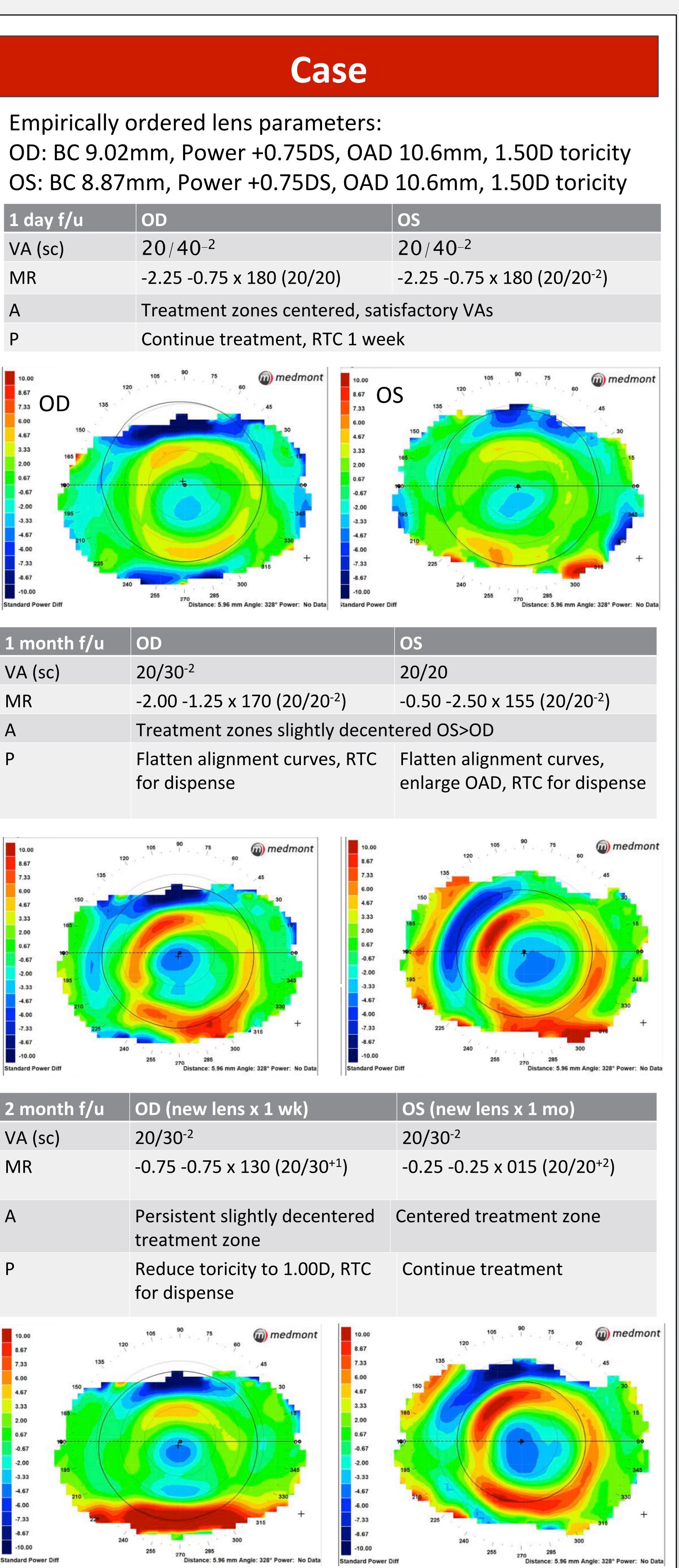
Baseline topography OD: 2.84DCx007, Δ Elevation = 52 μ m (max chord = 6.6mm) OS: 3.38DCx180, Δ Elevation = 64 μ m (max chord = 7.4mm)



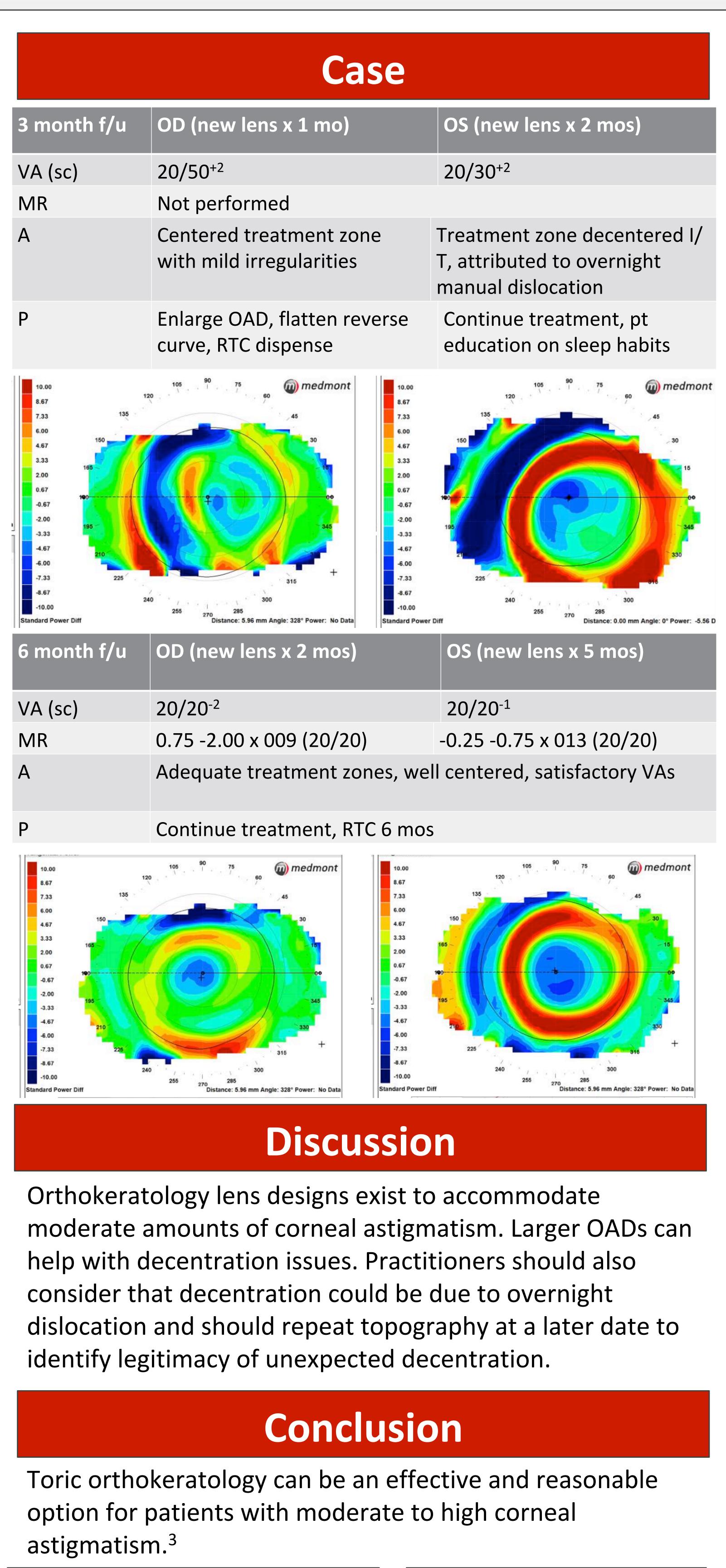
Fitting and Troubleshooting a Challenging Toric Orthokeratology Case Rami Aboumourad BS, Kellen R Riccobono, OD, Kathryn Richdale, OD, PhD University of Houston College of Optometry, Houston, Texas

1 day f/u	OD
VA (sc)	$20/40^{-2}$
MR	-2.25 -0.75 x 180 (20/20
Α	Treatment zones center
Ρ	Continue treatment, RT
10.00 8.67 7.33 0 135 6.00 4.67 3.33 2.00 0.67 -0.00 Standard Power Diff	
VA (sc)	20/30-2

VA (sc)	20/30-2
MR	-2.00 -1.25 x 170 (20/20-
Α	Treatment zones slightly
Ρ	Flatten alignment curves for dispense



2 month f/u	OD (new lens x 1 wk)
VA (sc)	20/30-2
MR	-0.75 -0.75 x 130 (20/30+1
A	Persistent slightly decent treatment zone
Ρ	Reduce toricity to 1.00D, for dispense
10.00 8.67 7.33 6.00 4.67 3.33	105 90 75 (in edmont



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Disclosures

RA: Travel funds (Euclid Systems Corp), KRR: none, KR: Research (Euclid Systems Corp, Alcon) Consulting, Novartis, Powervision