

## CASE STUDY

### EMERGING KERATOCONUS

DR STEPHANIE L. WOO, OD, FAAO, FSLs

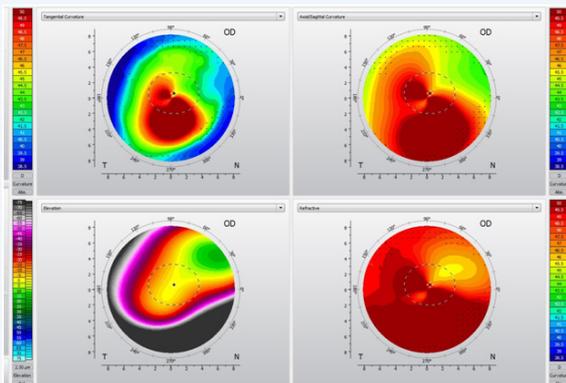
MS Female 24

## HISTORY

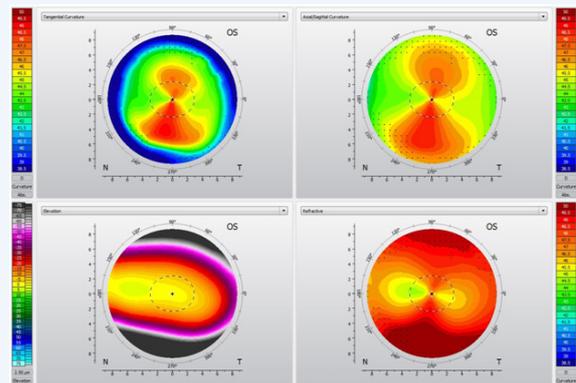
MS visited our office for a comprehensive eye exam. She generally goes to Mexico for her contact lens exam, but has noticed that her vision has declined over the years. She has worn contact lenses in the past, but strongly prefers glasses. She has been told she has “very high astigmatism”.

	OD	OS
Visual Acuity (unaided)	20/400	20/200
Manifest Refraction	-13.75 +6.75 x 141 [20/80]	-4.00 +4.50 x 176 [20/40]
Slit Lamp Findings	All anterior segment structures normal, except some mild corneal thinning OU	

OD



OS



### Diagnosis

Patient was diagnosed with PMD OD and emerging Keratoconus OS. After initially only wanting glasses, she eventually agreed to try scleral lenses.

### Initial Lens Selection

The Ampley Scleral Lens from Art Optical with Contamac's Optimum Extra<sup>®</sup> material.

## CASE STUDY

### EMERGING KERATOCONUS

DR STEPHANIE L. WOO, OD, FAAO, FSLs

MS Female 24

OD

Ampleye with Toric PC

BC 8.04 / DIA 16.50 / CT .30 / SAG 4400 / PWR -1.50

OS

Ampleye with Toric PC

BC 8.04 / DIA 16.50 / CT .30 / SAG 4200 / PWR -1.00

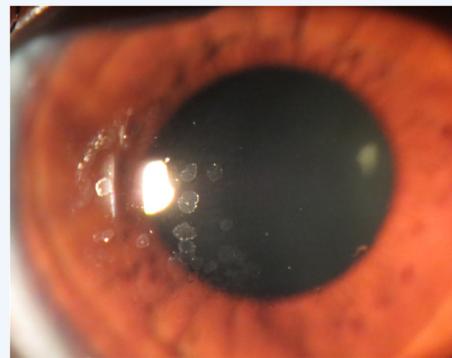
### Two Week Follow Up

The patient returned for her two week follow up feeling comfortable in the lenses, but complaining of fluctuating vision OU as soon as the lenses are inserted. Her DVA was 20/80 OD and 20/70 OS. Upon examination it was determined that her lenses weren't wetting well.

OD



OS



### Lenses Ordered with Tangible Hydra-PEG™

The same lens design and same parameters were ordered with the Tangible Hydra-PEG™ coating. Upon dispense, the patient noticed an immediate improvement in comfort and visual acuity. Her VA improved to 20/25 OU and the lens wetting was improved OU.

### Second Follow Up

The patient reported great vision and comfort OU after two weeks of wear. She can wear her lenses comfortably for 16 hours per day and her VA remains 20/40 OD and 20/30+ OS.

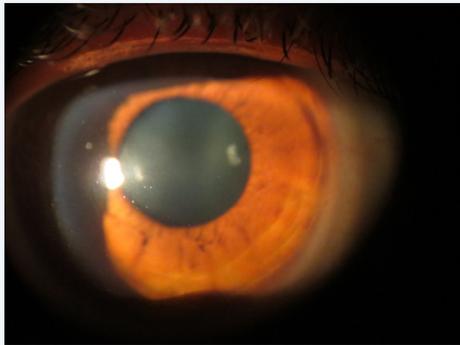
## CASE STUDY

EMERGING KERATOCONUS

DR STEPHANIE L. WOO, OD, FAAO, FSLs

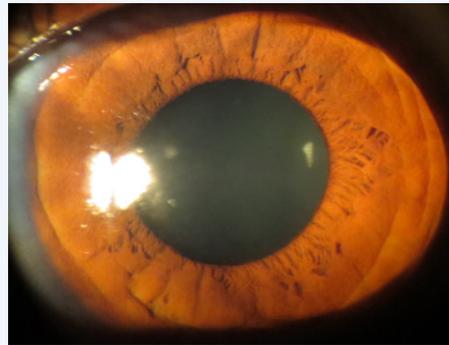
MS Female 24

OD



Coated with Tangible Hydra-PEG™

OS



Coated with Tangible Hydra-PEG™

## DISCUSSION

Tangible Hydra-PEG™ improved the wettability of the lenses. Adding the Tangible Hydra-PEG™ coating to a well fit lens can improve lens performance and patient comfort. Non-wetting contact lenses can be frustrating to the practitioner and patient alike. After confirming the use of non-oil based hand cleansing, the first line of treatment for me is usually changing their care system. Many times this does the trick in assisting with wettability, but other times, there is no effect. Next, I try changing the lens material. Again, some patients respond well to this, while others do not. I have plenty of patients that have tried switching lens care systems and contact lens material to no avail. It is very exciting that Tangible Hydra-PEG™ is now an option as a coating for these challenging patients. Tangible Hydra-PEG™ coats the entire lens, and allows for a more wettable, lubricious surface. I have seen improvements in comfort, better vision, reduced deposits, and increased wearing time with the majority of my patients whose lenses have been treated. I truly feel this treatment will become the new gold standard for gas permeable lenses in the future, because the performance speaks for itself. This technology has given us the ability to help so many patients who have problems with their lenses, and it is exciting to be the doctor who can solve their problems.

Distributed By



Art Optical Contact Lens Inc  
3175 3 MILE ROAD NW  
PO BOX 1848  
GRAND RAPIDS,  
MI 49501-1848

T: 800.253.9364

[www.artoptical.com](http://www.artoptical.com)

Produced By

Contamac Ltd  
Carlton House, Shire Hill  
Saffron Walden, Essex  
CB11 3AU

T. +44 (0)1799 51480  
E. [sales@contamac.co.uk](mailto:sales@contamac.co.uk)  
[www.contamac.com](http://www.contamac.com)

REF NO: 170322