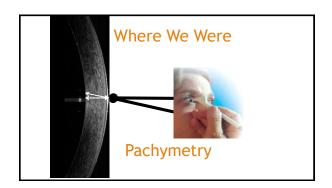
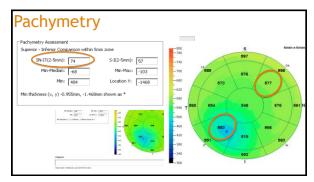
## Anterior Segment OCT Applications

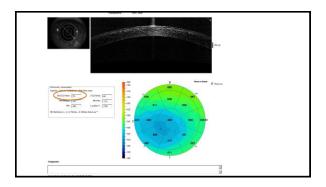
Mile Brujic, OD, FAAO

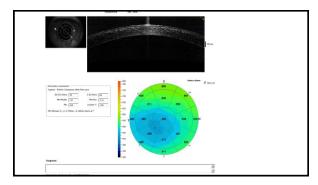
## Disclosure

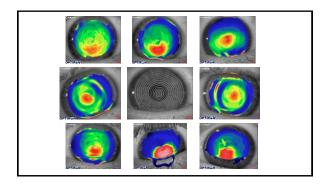
I have received honoraria in the past 2 years for speaking, writing, participating in an advisory capacity, research or meeting support from: Apellis, ABB Optical, Aldeyra, Allergan, Art Optical, Bausch + Lomb Health, Contamac, CooperVision, CSEye, Dompe, Dopavision, Glaukos, Horizon Therapeutics, Iveric Bio, Johnson & Johnson Vision Care, Lentechs, MDElite, Notal Vision, Novartis, Radius XR, RVL, Sun Pharma, Tangible Science, Tarsus, Santen, Viatris, Visus, Visionix, Walman Optical and Zea Vision

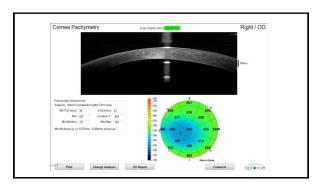


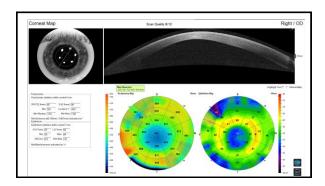


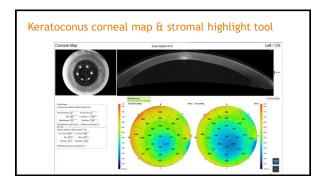


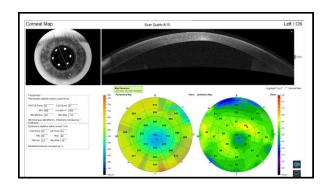




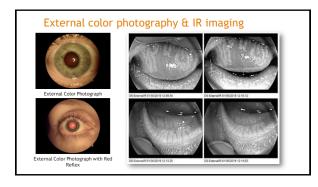


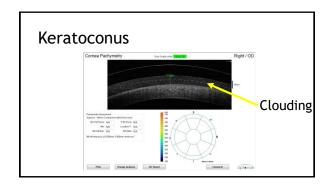


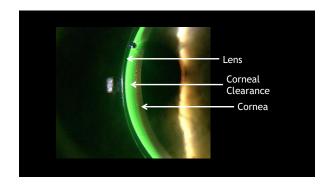


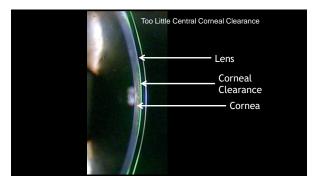


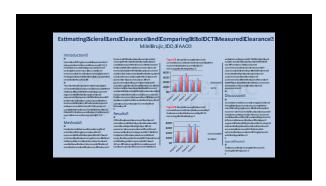


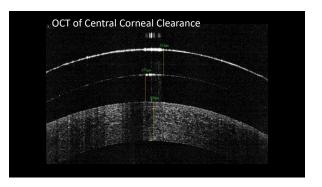


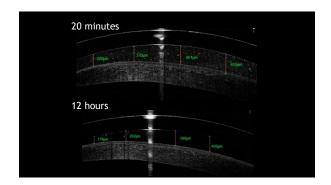


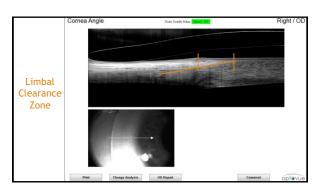


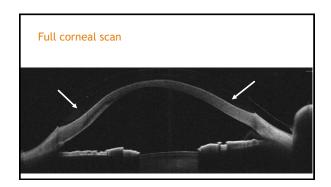


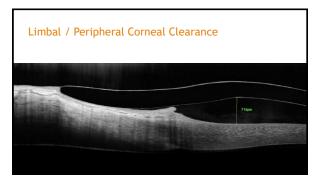


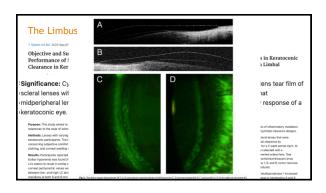




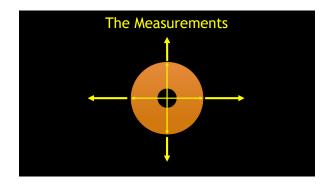


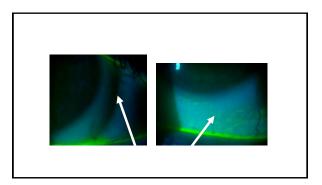


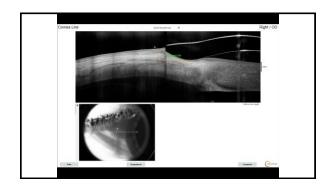


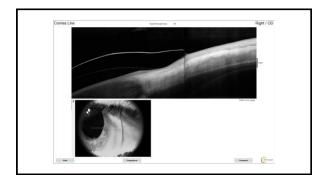


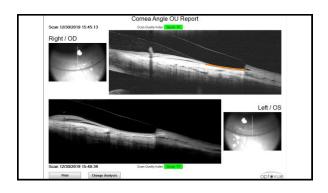


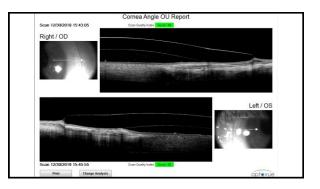


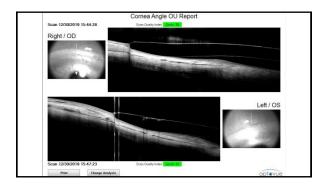


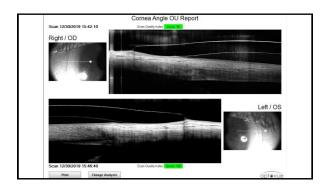


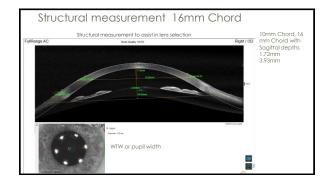


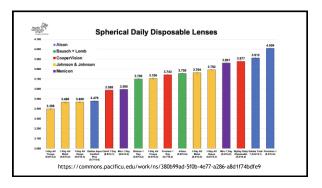


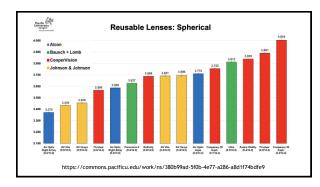


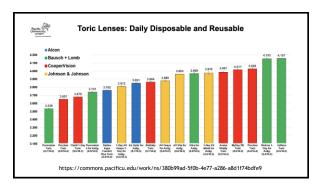


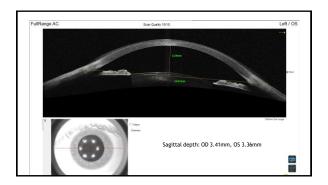




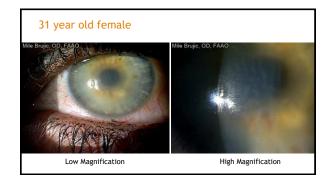


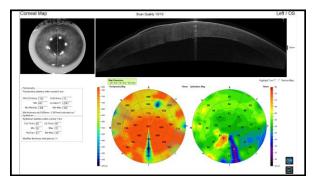


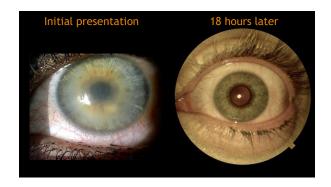


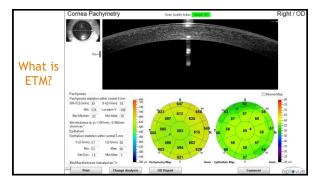


## 31 year old female ► In for an emergency visit ► She heard a pop in her eye, vision got fuzzy and the eye started to get sore shortly after that ► Currently wears soft contact lenses on a part time basis ► SiHy lenses -4.00-4.00x180 ► Vision 20/100 ► IOP 16 mmHg













## NIH Public Access

**Results**—The mean ( $\pm$ SD) central, superior, and inferior corneal epithelial thickness was 53.57 ( $\pm$ 3.31)  $\mu$ m, 52.00 ( $\pm$ 3.39)  $\mu$ m, and 53.03 ( $\pm$ 3.67)  $\mu$ m in normal eyes and 52.71 ( $\pm$ 2.83)  $\mu$ m, 50.58 ( $\pm$ 3.44)  $\mu$ m, and 52.53 ( $\pm$ 3.63)  $\mu$ m in dry eyes, respectively. The superior corneal epithelium was thinner in dry eye patients compared with normal subjects (p=0.037), whereas central and inferior epithelium were not statistically different. In the dry eye group, patients with higher severity grades had thinner superior (p=0.017) and minimum (p<0.001) epithelial thickness, more wide range (p=0.032), and greater deviation (p=0.003). The average central epithelial thickness had no correlation with tear breakup time, S1t, or the severity of meibomian glands, whereas average superior epithelial thickness positively correlated with S1t (r=0.238, p=0.017).

Z onangnai wedicine, Fudan University, onangnai, Unina (AZ

In Vivo 3-Dimensional Corneal Epithelial Thickness Mapping as an Indicator of Dry Eye: Preliminary Clinical Assessment

• CONCLUSIONS: This study, based on very user-friendly, novel AS-OCT imaging, indicates increased epithelial thickness in dry eyes. The ease of use and the improved predictability offered by AS-OCT epithelial imaging may be a significant clinical advantage. Augmented epithelial thickness in the suspect cases may be employed as an objective clinical indicator of dry eye. (Am J Ophthalmol 2013; : -- . © 2013 by Elsevier Inc. All rights reserved.)

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