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Documentation of Lower Tear Meniscus Using Anterior Segment Optical Coherence Tomography

Abhishek Onkar*

Department of Ophthalmology, AIIMS, Jodhpur, Rajasthan, India

*Corresponding author: Abhishek Onkar, Department of Ophthalmology Residential Complex, Basni Industrial Area Phase-2, AIIMS, Jodhpur, Rajasthan, India, Tel: +91-9871984534; E-mail: onkaratdmch@gmail.com

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Clinical Image

A twenty-four year old male presented with complaints of intermittent redness and burning sensation in both eyes, especially after continuous computer usage. His work entailed ten hours of computer usage on daily basis. His Snellen's visual acuity was 6/6 in both eyes. Schirmer's and tear break-up time readings were 18 mm, 8 sec and 16 mm, 8 sec in right and left eye respectively.

Anterior segment optical coherence tomography (AS-OCT) was used to measure lower tear meniscus height (LTMH) which came out to be 404 millimeters in right eye and 398 mm in left eye. Fluorescein LTMH measurement and Schirmer's test are invasive methods which, due to contact and usage of topical anaesthetics, can alter the measurements [1]. Thus AS-OCT provides a non-invasive, anaesthetic-free and speedy modality for in-situ evaluation of LTMH [Figures 1A and 1B].

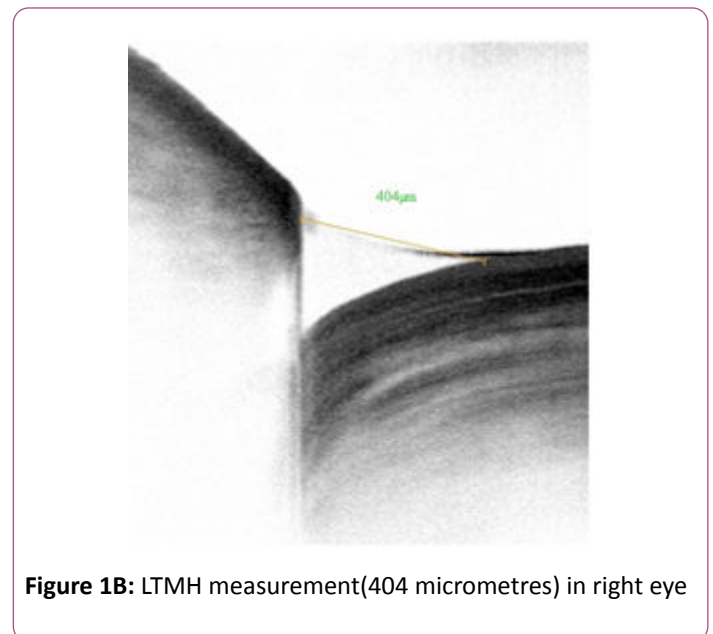


Figure 1B: LTMH measurement(404 micrometres) in right eye

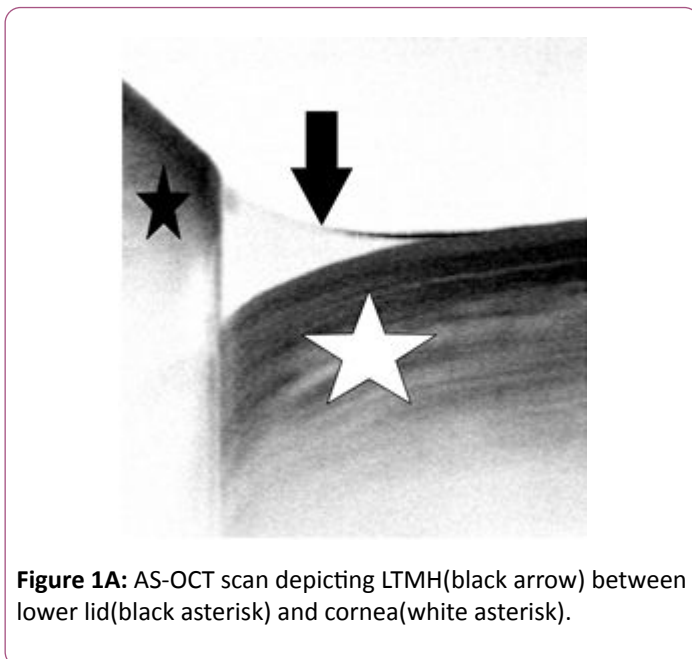


Figure 1A: AS-OCT scan depicting LTMH(black arrow) between lower lid(black asterisk) and cornea(white asterisk).

References

1. Savini G (2008) The challenge of dry eye diagnosis. Clin Ophthalmol 2: 31-55.