

Tear Film Dynamics Measured with Optical Coherence Tomography

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Technology description

Description

This technology has applications in the diagnosis of tear film related ocular diseases and evaluation of artificial tears and other eye drops. Tear film thickness interests researchers and clinicians because it may be related to dry eye and corneal integrity as well as symptoms of dryness and improper contact lens wear. This technology provides a non invasive technique, using Optical Coherence Tomography (OCT), to measure tear film dynamics (dynamic tear film thickness and height of tear meniscus around both upper and lower eyelids. Current practice is the measurement of each of these parameters each time and not in real time.

Institution

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