



DELEGATING DRY EYE DATA COLLECTION THROUGH TECHNOLOGY

CORNEAL ANALYZER 550 FOR PRECISE AND EFFORTLESS DIAGNOSIS AND TREATMENT PROGRESS TRACKING

DRY EYE is likely the number 1 most under-diagnosed problem in an optometrist practice. Cornea 550 Corneal Analyzer is the one instrument that gathers the data very quickly and accurately. A full dry eye workup takes only 5 to 7 minutes and can be performed by a technician.

STEP-BY-STEP WORK UP

Step 1: Patient history or validation of Dry Eye syndrome with a questionnaire.

Step 2: Tear analysis test. When the patient blinks twice, Cornea 550 will record a video and analyze the tear break-up time (TBUT).

Step 3: Meibography test. Enables ECPs to take easy red-free pictures, both posterior glands and the inferior.

Step 4: Tear meniscus height. Evaluation of the tear volume by taking pictures and measuring the height.

Step 5: Assessment of eye redness with Efron Grading Scales.¹

Step 6: Review of the complete report with one general color summary and comments and recommendations.

BENEFITS TO PRACTICE

- **Show and Tell.** With the video, optometrists and patients can watch the eyes in real time. Put the fluorescein on the eye and scan across the eye in a video and show patients staining. Patients can watch their tear glands disintegrate right in front of their

eyes. Cornea 550 makes it a more technically advanced exam, and the video is a huge “wow” factor to the patients.

- **Quantify Tears and Meibomian Glands Simultaneously.** Tears are very complex, and the lipid layer is often overlooked. One key feature is that Cornea 550 can quantify both at the same time. Optometrists can measure the tear meniscus height down to an exact number. They can look at the pictures and quantify the loss of the meibomian glands. There are blue and white images or highlighted pictures that work better for some patients.

- **Guiding Treatment Direction.** The diagnosis can guide the treatment direction, such as a warm compress once or twice a day, digital massage, or even antibiotics. Once both the tears and meibomian glands are addressed, optometrists can see actual improvement more quickly than before.

- **Tracking Treatment Progress.** Cornea 550 can help validate whether therapy is working. TBUT is standardized, down to one decimal place. Many times, the signs improve before the symptoms, so although patients may not see a big improvement in the symptoms, when they come back in and learn that their TBUT has improved, they are more likely to adhere to treatment.

Delegation is the key to the efficiency and success of a practice. Cornea 550 allows optometrists to delegate data collection for dry eye to technicians. Optometrists can then focus on interpreting the data and discussing them with patients to improve the quality of care.

Cornea 550 Corneal Analyzer is available through Essilor Instruments. Visit www.essilorinstrumentsusa.com for more information and sales support.

REFERENCE

1. Used by permission from Nathan Efron and Butterworth-Heinemann/Elsevier. Efron N. Contact Lens Practice, 3rd Edition, Elsevier, Edinburgh 2017 (ISBN 978-0-7020-6660-3).



Cornea 550 Corneal Analyzer

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