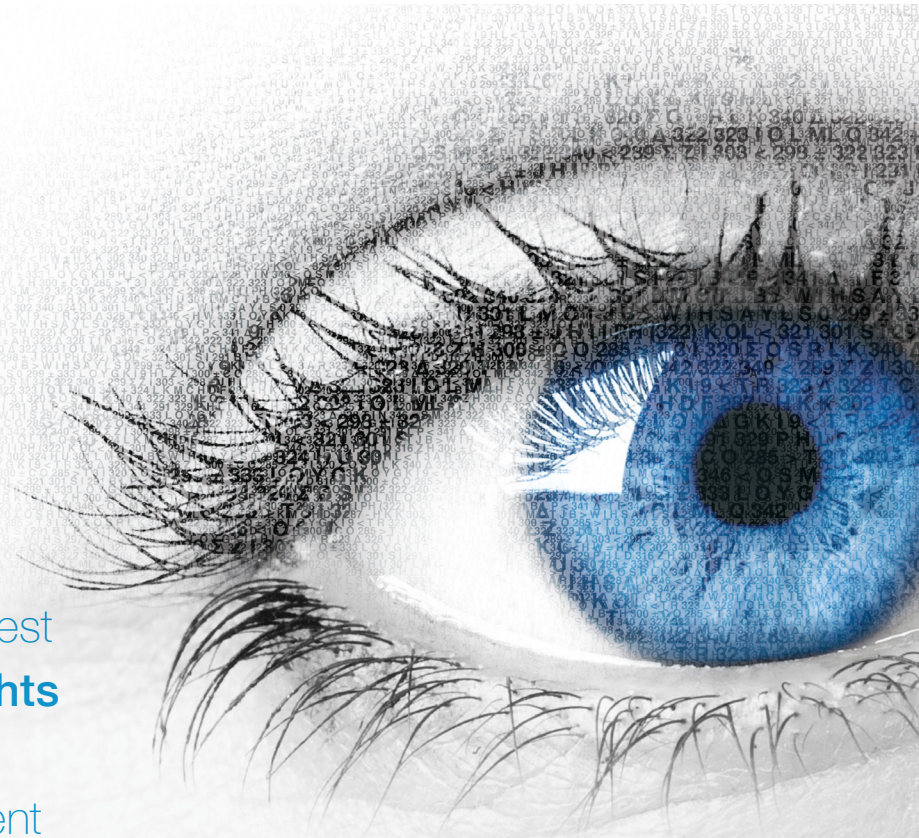
TearLab® Diagnostic Test



Add data to your insights.

The TearLab Diagnostic Test provides **objective insights** to **better inform** your diagnosis and management of the ocular surface.

Quantitative Data for Your Ocular Surface Assessment

- A healthy ocular surface is essential for good vision.
- Since 70% of the total refractive power occurs at the tear film surface[1], it is essential to evaluate the tear film when managing ocular surface disease.
- Tear osmolarity is an important biomarker of ocular surface health.

"Dry eye is a multifactorial disease of the ocular surface characterized by a loss of homeostasis of the tear film, and accompanied by ocular symptoms, in which tear film instability and hyperosmolarity, ocular surface inflammation and damage, and neurosensory abnormalities play etiological roles."[2]

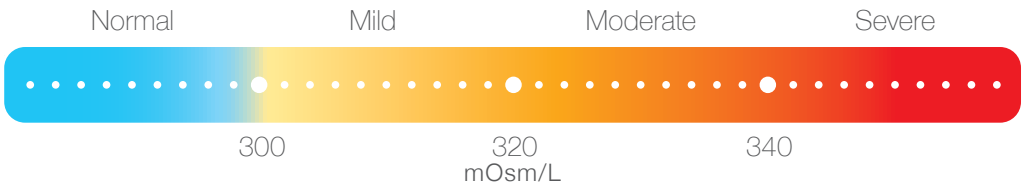
- TFOS DEWS II

Diagnose

Test the osmolarity of both eyes.

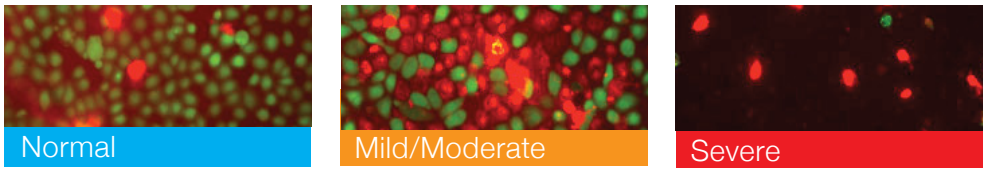
ABNORMAL OSMOLARITY IS DEFINED BY:

- An elevated reading, >300 mOsm/L, indicating loss of homeostasis.[3]
- OR, When the inter-eye difference is >8 mOsm/L, indicating instability of the tear film.[3]



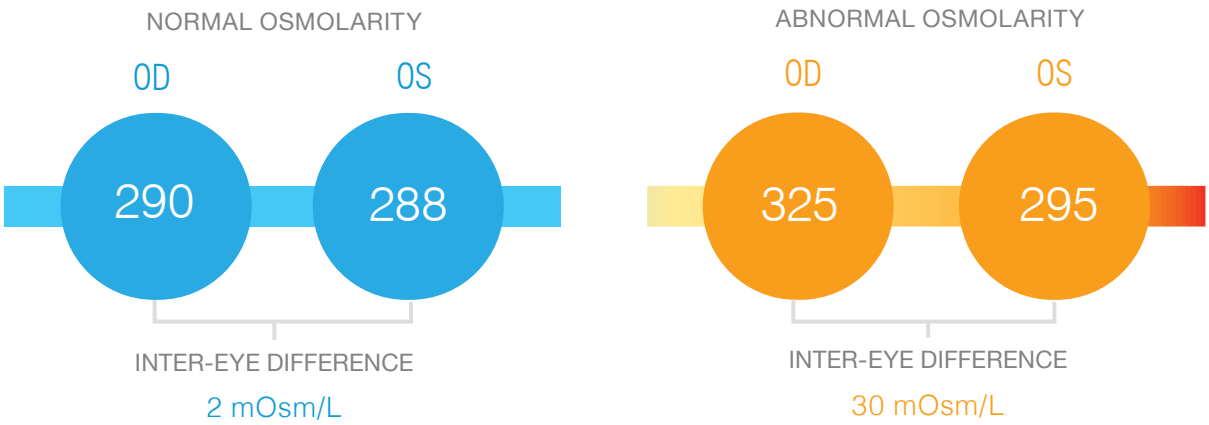
Relationship between osmolarity and ocular surface health

EPITHELIAL CELL HEALTH



- Abnormal osmolarity indicates an unhealthy tear film, which can potentially damage the ocular surface and cornea.[4]
- Left undiagnosed and untreated, epithelial cell death and visual fluctuations can occur.[4]

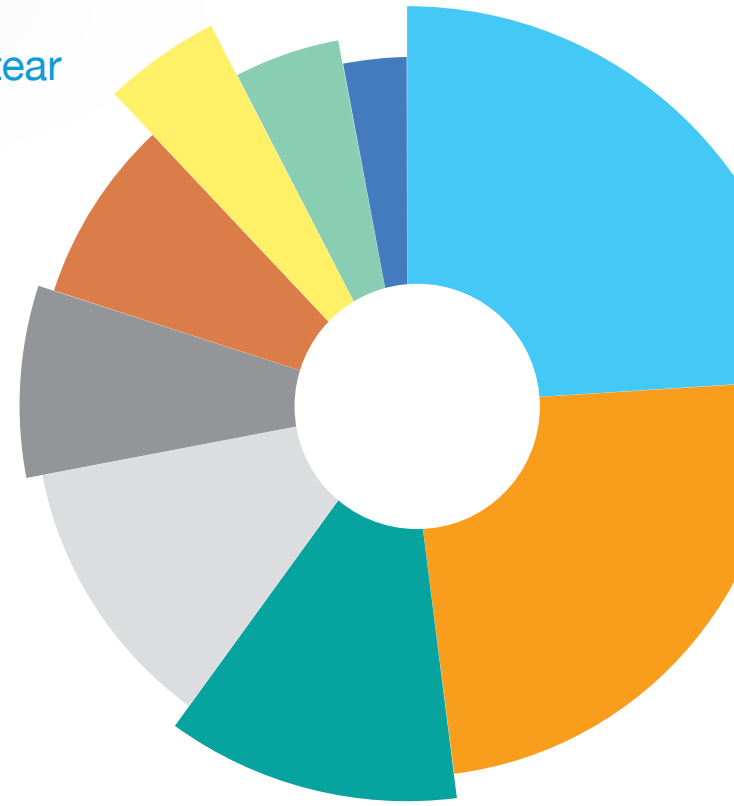
Tear osmolarity is informative when the results are abnormal or normal.



A symptomatic patient with normal tear osmolarity may not have dry eye.

In a prospective observational study[5] of 50 symptomatic patients with normal tear osmolarity, the most frequent diagnoses included:

- Allergic conjunctivitis (24%)
- Anterior blepharitis (24%)
- EBMD (12%)
- Keratoneuralgia (12%)
- Contact lens intolerance (8%)
- Conjunctivochalasis (8%)
- Computer vision syndrome (6%)
- Trichiasis (6%)
- Dry eye disease with effective therapy (4%)



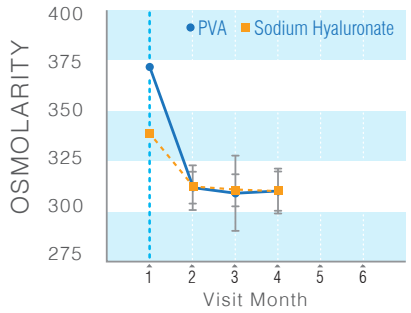
Eleven patients (22%) had more than 1 diagnosis present, hence why percentages do not add to 100%

Manage

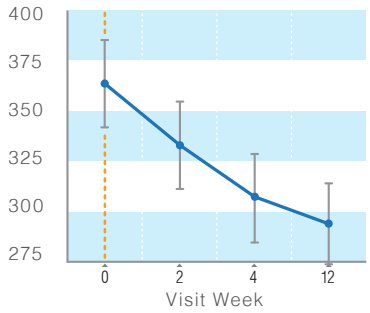
Use TearLab osmolarity data to better inform your treatment plan based on disease severity and manage patient progress by evaluating therapeutic effectiveness.[6-8]

Abnormal osmolarity decreases with effective treatment.

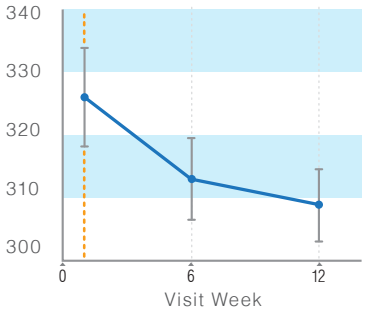
HA/PVA TREATMENT



HP GUAR TREATMENT



OMEGA-3 TREATMENT



TearLab® Diagnostic Test

The point-of-care TearLab Diagnostic Test provides precise and predictive quantitative information.

PRECISE:

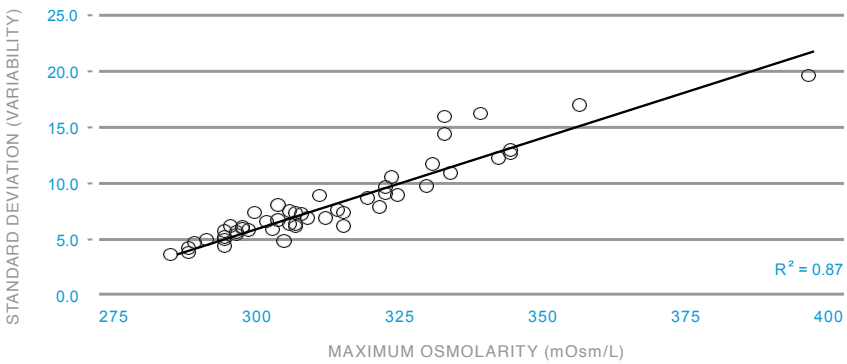
More precise than other universally accepted point-of-care tests such as cholesterol and glucose.[9-11]

Clinical Test	CV
Osmolarity	**< 1.5%**
Glucose	≥ 5.0%
Cholesterol	> 4.0%

PREDICTIVE:

89%
predictive of dry eye[12]

Variability is a hallmark of the disease.[13]



The greater the osmolarity, the greater the variability.

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IQ Medical Pty Ltd
2/86 Mary Street, Unley SA 5061
Phone (08) 8357 8022 | **Email** sales@iqmedical.com.au
Web www.iqmedical.com.au

TearLab®

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