

# ScoutPro™

Osmolarity System

## The Importance of Corneal Health to Surgical Success

### Surgical implications of corneal health

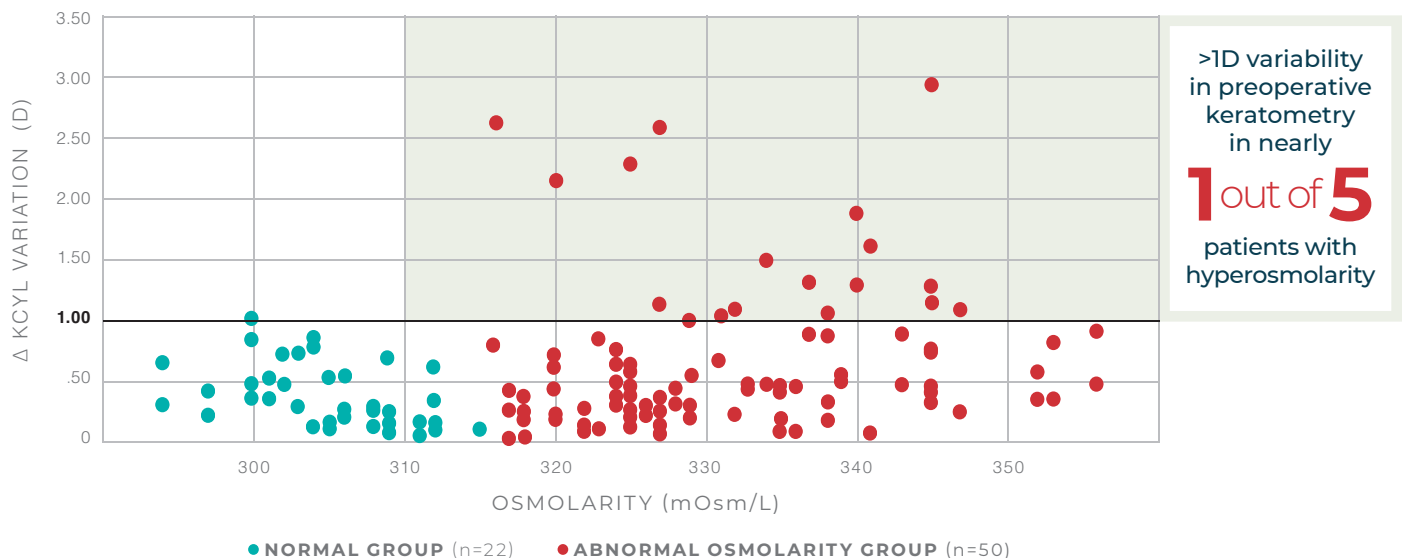
**“The impact of DED and OSD on topography, biometry, keratometry, and higher-order aberrations is one of the major causes of disappointing postoperative outcomes.”<sup>5</sup>**

Corneal health can significantly impact your surgical outcomes.<sup>1</sup> Toxic hyperosmolarity damages corneal cells and drives refractive instability.<sup>2,3</sup>

- Hyperosmolar tear film instability impacts presurgical keratometry<sup>4</sup>
- Refractive surprises result from inaccurate IOL power calculations<sup>4</sup>
- Measure osmolarity in the preoperative period to help achieve best outcomes<sup>1</sup>

### Osmolarity testing prepares you for surgery

Reliable keratometry is required for accurate IOL power calculations. Hyperosmolarity diminishes the repeatability of preoperative K values and IOL power calculations, thus compromising surgical success.<sup>4</sup>



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## Preoperative osmolarity testing helps identify at-risk patients

The slit lamp may not show the whole picture; osmolarity testing can identify patients with a higher likelihood of refractive surprises from inaccurate keratometry.<sup>4,5</sup>



Proportion of cataract surgery patients at risk for ocular surface disease<sup>6</sup>



Proportion of cataract surgery patients with abnormal osmolarity<sup>6</sup>

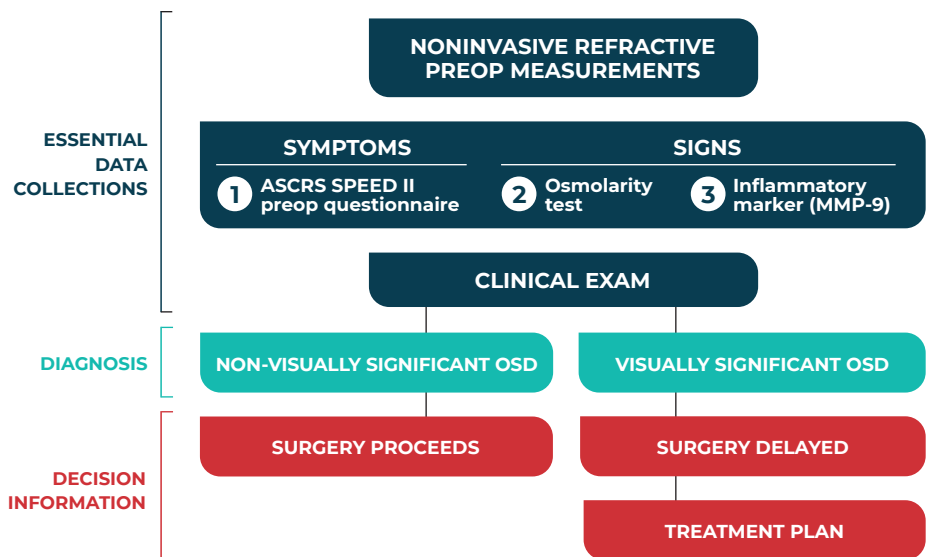
Do you know which of your cataract surgery patients have hyperosmolarity?

## Osmolarity testing is essential for preoperative planning

“Osmolarity testing is essential for identification and management of visually significant ocular surface disease.”<sup>5\*</sup>

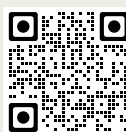
\*The ASCRS Preoperative OSD Algorithm recommends incorporating OSD diagnostic testing into a preoperative cataract surgery plan; ASCRS does not endorse the use of specific products.<sup>5</sup>

### ASCRS preoperative OSD algorithm



Adapted from the ASCRS Algorithm<sup>5</sup>

**REFERENCES:** 1. Schechter B and Mah F, *Ophthalmology and Therapy*. 2022. 11(3):1001-1015. 2. Hirata H, et al. *Invest Ophthalmol Vis Sci*. 2015. 56(13):8125-40. 3. Huet E, et al. *Am J Pathol*. 2011. 179(3):1278-86. 4. Epiropoulos AT, et al. *J Cataract Refract Surg*. 2015. 41(8):1672-7. 5. Starr CE, et al. *J Cataract Refract Surg*. 2019. 45(5):669-684. 6. Gupta PK, et al. *J Cataract Refract Surg*. 2018;44(9):1090-6.



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