

Name _____

Date ____/____/____

Dry Eye Symptom Analysis¹**SPEED Scores^{1,2}**

| OD: _____ | INTERPRETATION (circle) | | | | OS: _____ | INTERPRETATION (circle) | | | |
|-----------|-------------------------|------|----------|--------|-----------|-------------------------|------|----------|--------|
| | Min | Mild | Moderate | Severe | | Min | Mild | Moderate | Severe |

Interpretation Guidelines

< 6 = Minimal Symptoms - May not require treatment

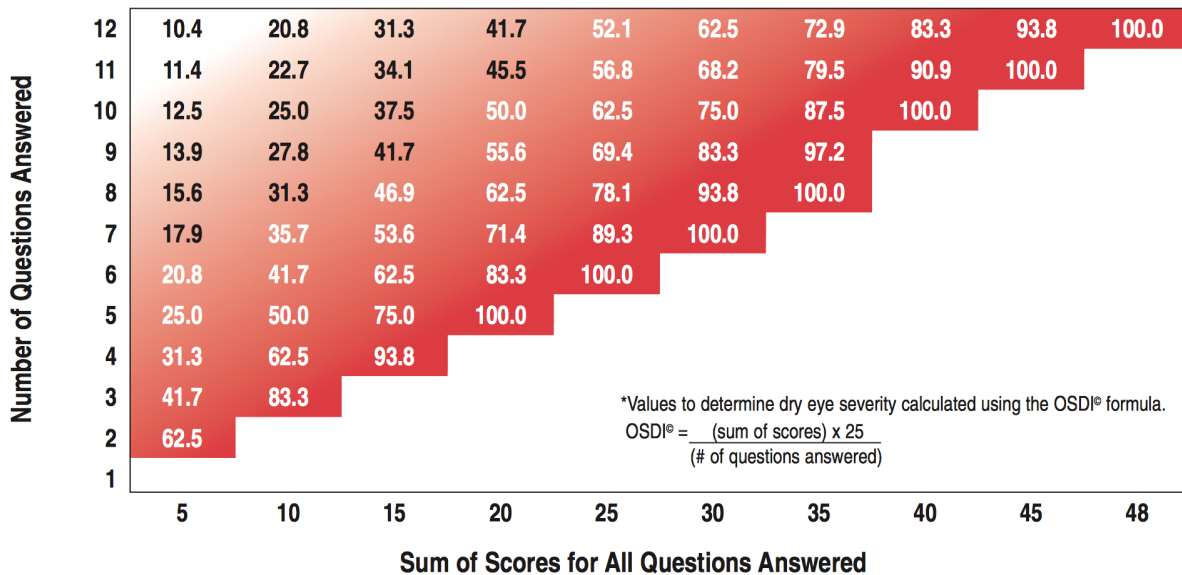
≥ 6 - < 12 = Mild Symptoms - May require minimal treatment

≥ 12 - < 20 = Moderate Symptoms - Likely to require treatment

≥ 20 = Severe Symptoms - Requires treatment

¹ Korb DR, Herman JP, Greiner JV et al. Lid wiper epitheliopathy and dry eye symptoms. Eye Contact Lens 2005; 31: 2-8.² Ngo W, Ping S, Kier N, et al. Psychometric properties and validation of the standard patient evaluation of eye dryness questionnaire. Cornea 2013; 32:1204-1210.**OSDI SCORES¹**

| OD: _____ | INTERPRETATION | | | | OS: _____ | INTERPRETATION | | | |
|-----------|----------------|------|----------|--------|-----------|----------------|------|----------|--------|
| | Min | Mild | Moderate | Severe | | Min | Mild | Moderate | Severe |



¹ Schiffman RM, Christianson MD, Jacobsen G, et al. Reliability and validity of the Ocular Surface Disease Index. Arch Ophthalmol 2000; 118:615-621.

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| LipiView Interferometry | |
|--|------------------------|
| Tear Film Lipid Layer Thickness (measured by LipiView) | |
| RIGHT EYE (OD) _____ nm | LEFT EYE (OS) _____ nm |
| INTERPRETATION: _____ (<70 nm = Dry Eye) | |

| Schirmer's Test with Anesthetic | | | |
|---|--|--------------|--|
| OD: _____ mm | INTERPRETATION Min Mild Moderate Severe | OS: _____ mm | INTERPRETATION Min Mild Moderate Severe |
| ≥10mm = Minimal Symptoms / > 5mm-10mm = Mild Symptoms / 2mm - ≤ 5mm = Moderate Symptoms / 0mm-1mm = Severe Symptoms | | | |

| Tear Film Osmolarity | | | |
|--|--|------------------|--|
| OD: _____ mOsm/L | INTERPRETATION Min Mild Moderate Severe | OS: _____ mOsm/L | INTERPRETATION Min Mild Moderate Severe |
| ≤ 302 = No Dry Eye Suggested / 302-310 = Mild Dry Eye / 311-320 = Moderate Dry Eye / >320 = Severe Dry Eye | | | |

| Tear Film Break Up Time By DET Test ¹ | | | | | | | |
|--|--------------|--------------|-----|----------------------------------|--------------|--------------|-----|
| Time 1 (sec) | Time 2 (sec) | Time 3 (sec) | Avg | Time 1 (sec) | Time 2 (sec) | Time 3 (sec) | Avg |
| | | | | | | | |
| OD ____ sec INTERPRETATION _____ | | | | OS ____ sec INTERPRETATION _____ | | | |
| Severe Dry Eye (DE) = 0-3 sec / Moderate DE = 4-6 s / Mild DE = 7-9 s / Questionable DE = ≥10 s | | | | | | | |
| ¹ Korb DR, Greiner JV, Herman J. Comparison of fluorescein break-up time measurement reproducibility using standard fluorescein strips versus the Dry Eye Test (DET) method. Cornea 2001; 20:811-815. | | | | | | | |

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| Vital Staining | | | | | | | | | | | |
|---|----------|------------|-----------|----------------|-----------|---------------|----------|------------|-----------|----------------|-----------|
| Sodium Fluorescein Staining Grades Using NEI Guidelines | | | | | | | | | | | |
| OD | | | | | OS | | | | | | |
| Cent | Sup | Temp | Nasal | Inf | Cent | Sup | Temp | Nasal | Inf | | |
| | | | | | | | | | | | |
| INTERPRETATION: | | | | | | | | | | | |
| Conjunctiva Lissamine Green Staining Grade | | | | | | | | | | | |
| OD | | | | | OS | | | | | | |
| Far Temp | Sup Temp | Inf Temp | Sup Nasal | Inf Nasal | Far Nasal | Far Temp | Sup Temp | Inf Temp | Sup Nasal | Inf Nasal | Far Nasal |
| | | | | | | | | | | | |
| INTERPRETATION: | | | | | | | | | | | |
| Far Nasal Region | | | | | | | | | | | |
| OD | | | | | OS | | | | | | |
| Caruncle ____ | | Plica ____ | | Far Nasal ____ | | Caruncle ____ | | Plica ____ | | Far Nasal ____ | |
| INTERPRETATION: | | | | | | | | | | | |

| Lid Wiper Epitheliopathy (w/ Lissamine Green Stain) | | | | | | | |
|--|---------|-----------|---------|-------------------------|---------|-----------|---------|
| OD | | | | OS | | | |
| Upper Lid (Plug: Y / N) | | | | Upper Lid (Plug: Y / N) | | | |
| Temporal | Central | Nasal | Average | Temporal | Central | Nasal | Average |
| | | | | | | | |
| Lower Lid (Plug: Y / N) | | | | Lower Lid (Plug: Y / N) | | | |
| Temporal | Central | Nasal | Average | Temporal | Central | Nasal | Average |
| | | | | | | | |
| INTERPRETATION: Staining Grade: 0 = None / 1 = Mild / 2 = Moderate / 3 = Severe | | | | | | | |
| Far Nasal Lid Margin Zone (Medial to Punctum) [Lissamine Green Stain] | | | | | | | |
| OD | | | | OS | | | |
| Lower Lid | | Upper Lid | | Lower Lid | | Upper Lid | |
| | | | | | | | |
| INTERPRETATION: Staining Grade: 0 = None / 1 = Mild / 2 = Moderate / 3 = Severe | | | | | | | |

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Meibomian Gland Assessment Scores

| OD - Lower Lid | | | | | | Total Score | Glands Open | OS - Lower Lid | | | | | | Total Score | Glands Open |
|------------------------|--|--|--|--|--|-------------|-------------|----------------|--|--|--|--|--|-------------|-------------|
| Temporal (5 glands) | | | | | | | | | | | | | | | |
| Central (5 glands) | | | | | | | | | | | | | | | |
| Nasal (5 glands) | | | | | | | | | | | | | | | |
| OD - Lower Lid | | | | | | Total Score | Glands Open | OS - Lower Lid | | | | | | Total Score | Glands Open |
| Temporal (5 glands) | | | | | | | | | | | | | | | |
| Central (5 glands) | | | | | | | | | | | | | | | |
| Nasal (5 glands) | | | | | | | | | | | | | | | |

INTERPRETATION: Grading: 0 = No Secretion / 1 = Stringy / Rope-Like Secretion / 2 = Turbid Secretion / 3 = Clear Secretion

¹ Lane SS, Dubiner HB, Epstein RJ, et al. A new system, the LipiFlow, for the treatment of meibomian gland dysfunction. Cornea 2012; 31:296-304.

² Greiner JV. A single LipiFlow® thermal pulsation system treatment improves meibomian gland function and reduces dry eye symptoms for 9 months. Curt Eye Res 2012; 37:272-278.

³ Greiner JV. Long-term (12 month) improvement in meibomian gland function and reduced dry eye symptoms with a single LipiFlow Thermal Pulsation Treatment on meibomian gland function and dry eye symptoms. J Clin Exp Ophthalmic 2013; 41:524-530.

⁴ Greiner JV. Long-term (3 Year) Effects of a Single Thermal Pulsation System Treatment on Meibomian Gland Dysfunction and Dry Eye Symptoms. Eye & Contact Lens 2015; 0:1-9. (in press, published ahead of print).

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