You mite want to consider treating that lid...

Marc Bloomenstein, OD, FAAO Scottsdale, AZ

Marc Bloomenstein's **Disclosures**

- · Presenter is on speakers panel/Advisor of Alcon, Abbvie, J&J, Bausch + Lomb, Trukera, OcuSoft, Bruder, Reichert, LENZ, Visus, Tarsus, Azura, Viatris, Sight Sciences, Iveric, STAAR, Sun Pharma, Apellis, Topcon, Synedxis, Harrow
- · Presenter has NO financial interest in any products mentioned
- · And..all relevant materials have been mitigated

1

DEMODEX BLEPHARITIS | A PERVASIVE AND DAMAGING EYE DISEASE

- 69% of blepharitis cases are due to Demodex infestation leading to Demodex blepharitis^{1,4}
 Demodex mites are implicated in other diseases of the lid and lid margin, including blepharitis and melbomina glund dysfunction^{1,2}
- dex mites are associated with acne vulgaris, folliculitis, rosacea, sorrheic dermatitis, perioral and scalp hair loss, and basal cell carcinoma^{1,3}
- carcinoma—
 modex folliculorum and Demodex brevis are the only 2 species
 found in humans⁵
 The life cycle of the Demodex mite is approximately 1 4 to 18 days,
 from the egg to the larval stage followed by the adult stage⁵
 The life span of the mite is limited outside the living body, direct







Mayo Clinis. Accessed June 28, 2022. https://www.mayotlinis.org/diseases-conditions/bisphartis/symptoms-causes/syc-20370141 2. Thang AC et al. Ophthalmic Physic Opt 2020/AO(4):580-482. 5. From teein SR et al. Clin Optom (AssA); 2018; 1037-63. - Crautier W et al. Clin Ophthalmic 2022; 10:1105-1104. 5. Litwin D et al. Iran J Fuzzation 2017; 10(1):1205-1006. 2017; 10(1):1205-1006.

What is *Demodex* blepharitis (DB)?

 DB is a common eyelid margin disease caused by an overgrowth of *Demodex* The standard by mites and characterized by collarettes, eyelid redness, inflammation, and ocular

2









3

DEMODEX BLEPHARITIS | Mechanisms of Disease



MECHANICAL (1)

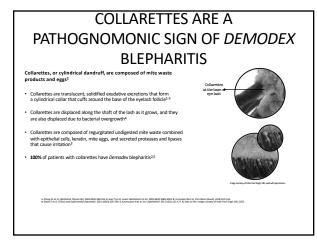


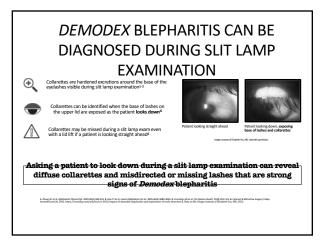
haritis by carrying ia on their exterior



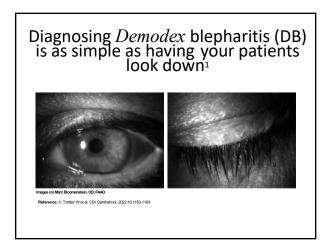
5

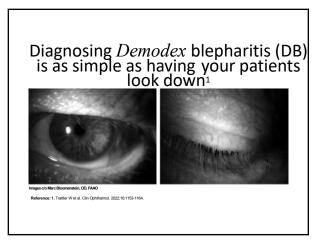
CLINICAL MANIFESTATIONS OF DEMODEX BLEPHARITIS





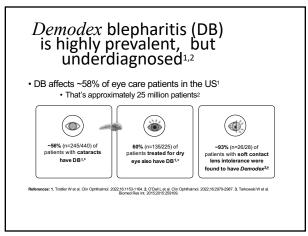
7 8



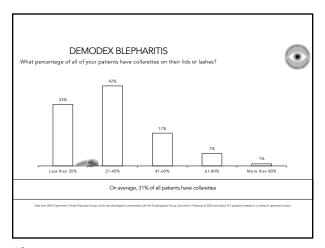


9 10





11 12



DEMODEX BLEPHARITIS

What percentage of all of your patients have collarettes on their lids or lashes?

The literature suggests the number is much higher. Approximately 25 million adults in the United States, 62% to 69% of those with a blepharitis diagnosis, have Demodex blepharitis.

Melissa Barnett OD, FAAO, FSLS, FBCLA

7%

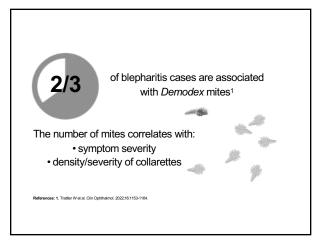
Melissa Barnett OD, FAAO, FSLS, FBCLA

7%

On average, 31% of all patients have collarettes

Cost for 282 Optionest force Description, which are diverged in percentique of the Endighted Group, burded in Princip of 2822 and also 111 quatern steere to a comp of generatingten

13 14



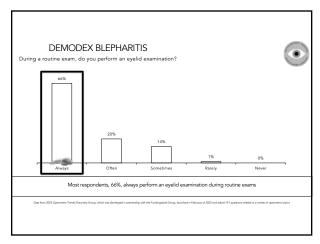
KeySigns and Symptoms
of DB

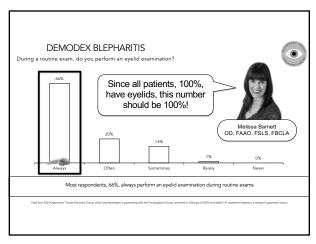
• Itching *most common symptom
• Dry eyes

• Missing/misdirected eyelashes
• Lid margin inflammation
• Sensitivity to light
• Blurred vision

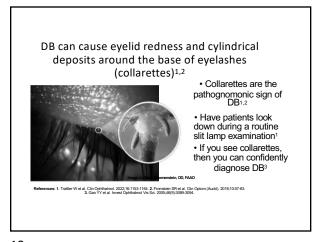
16

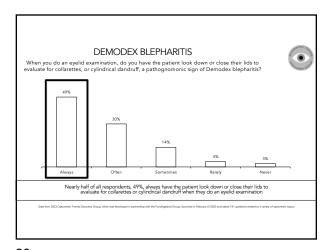
15



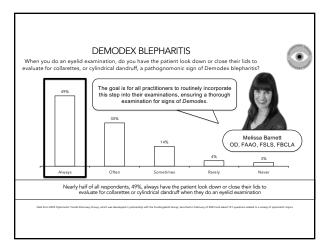


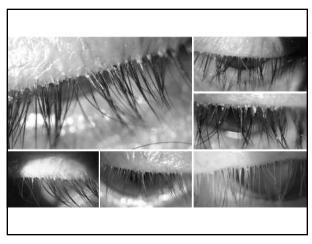
17 18



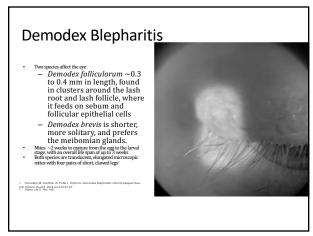


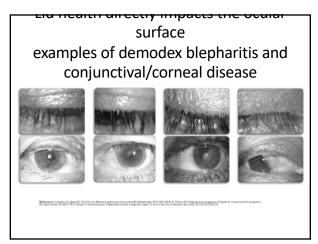
19 20



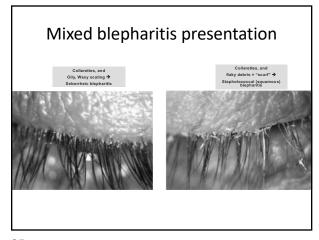


21 22



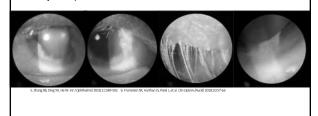


23 24

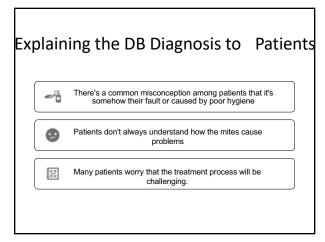


Demodex Blepharitis & Clinical Associations

- Also leads to lid margin erythema, lid edema, eyelash misalignment or loss, recurrent chalazia and, more rarely, primary and recurrent pterygia, peripheral corneal vascularization, phlyctenule-like lesions and corneal opacity⁵
- Other inflammatory diseases, such as rosacea, and blepharokeratitis and blepharoconjunctivitis.⁶



25 26



Keys Points when Delivering the DB Diagnosis to Patients

 DB is a prevalent condition and not a reflection of personal negligence.¹⁻³

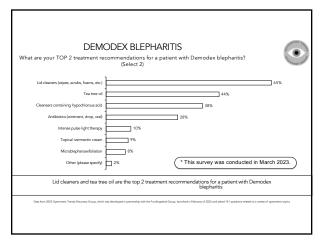
2. The condition results from an increase in tiny mites that can harm the eyelids.^{1,4,5}



3. Treatment is straightforward and effective.⁶

References: 1. Trattler W et al. Clin Ophthalmol. 2002;16:1153-1164. 2. O'Dell Let al. Clin Ophthalmol. 2002;16:2979-2887. 3. Liu J et al. Curr Opin Allergy, Clin Immunol. 2010;10(5):505-510. 4. Gao V fet al. Invest Ophthalmol V fes Sci. 2005;6(9):3089-3094. 5. Fromstein SR et al. Clin Optom (Austi). 2018;10(5):57-63. 8. ADEMV / [prescribing information]. Trassur Pharmacoulicidus, for, 2023.

27 28



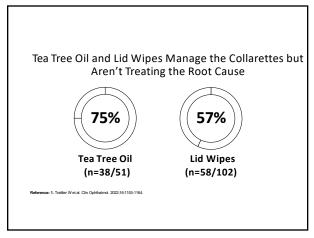
Common Treatments for *Demodex*Blepharitis

<u>At-Home</u>

In-Office

- Tea tree oil
- · Intense pulsed light therapy
- Lid wipes
- Microblepharoexfoliation
- Topical ivermectin cream
- Cleansers containing hypochlorous acid
 - Lid scrubs
 - Antibiotics

29 30



Lotilaner ophthalmic solution, 0.25%

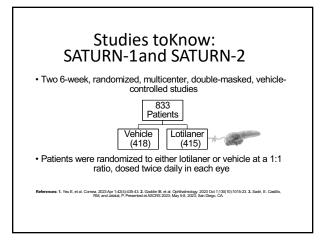
 The first and only FDA-approved treatment for Demodex blepharitis (July 2023)

 Paralyzes and eradicates Demodex mites by selectively inhibiting parasite-specific GABA-CI channels

 Lotilaner
 Palate non-competitive anapposet of insect and areached GABA-CI channels

 Polity locyteic molecule
 Holderence: Tursus Phermacedicals, Inc. 2023.

31 32



SATURN-1 and SATURN-2 Study Results

1. Collarette Reduction (≤2 collarettes)

• 50% compared with 10% vehicle

2. Mite Eradication (0 mites/lash)

• 60% compared with 16% vehicle

3. Erythema Cure (Grade 0)

• 25% compared with 8% vehicle

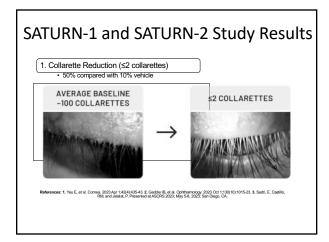
4. Collarette Reduction (≤10 collarettes)

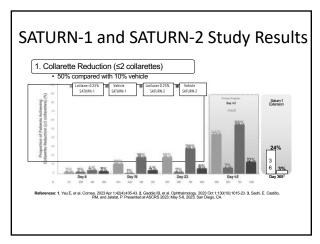
• 85% compared with 28% vehicle

References: 1. You E. et al. Comma. 2020/er 1-2004/553-43. 2. Codds filt et al. Confederationy, 2020, Col. 1-130 (10) 1015-23. 3. Sodri. E. Caellio.

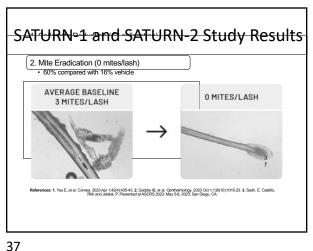
References: 1. You E. et al. Comma. 2020/er 1-2004/553-43. 2. Codds filt et al. Confederationy, 2020, Col. 1-130 (10) 1015-23. 3. Sodri. E. Caellio.

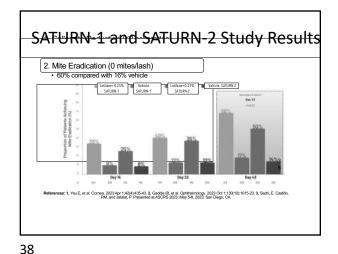
33 34

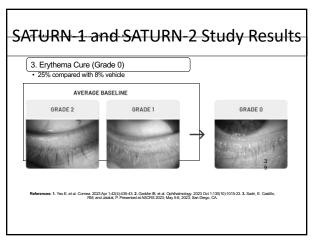


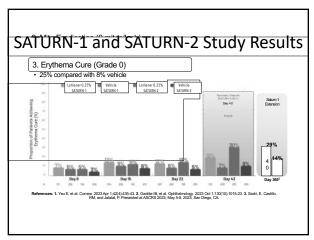


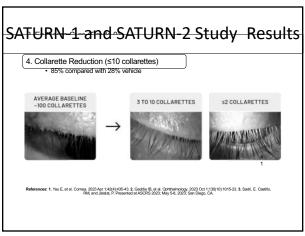
35 36

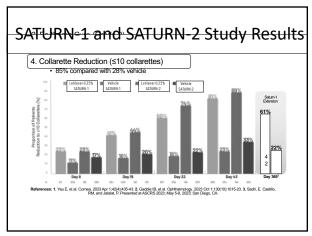












Patients Tolerate Lotilaner Drops



of patients in both trials in the lotilaner and vehicle groups reported the drop as neutral to very comfortable

References: 1. Yeu E, et al. Comea. 2023 Apr 1;42(4):435-43. 2. Gaddie IB, et al. Ophthalmology. 2023 Oct 1;130(10):1015-23. 3. Sadri, E. Castillo, RM, and Jalaist, P. Presented at ASCRS 2023; May 5-8, 2023; San Diego, CA

DEMODEX BLEPHARITIS KEY TAKEAWAYS

- Demodex mites may be present in 69% of all blepharitis cases
- It is a disease that is often misdiagnosed and underdiagnosed
- Demodex blepharitis is prevalent in cataract, dry eye, and contact lens patients and has a substantial impact on the daily lives of patients, including psychosocial and clinical burden.
 - Eradicating the root cause (the *Demodex* mite) rather than just addressing symptoms is crucial
 - Current options for managing Demodex blepharitis do not eradicate mites and are poorly tolerated
- Confidently and definitively diagnose Demodex blepharitis by looking for collarettes
- Look for collarettes by having every patient look down during a slit lamp examination Provide patient education and understand their current struggles with comfort and lid hygiene compliance
- TP-03, if approved, may be a menerging safe and effective treatment for Percent Debravitis, and has demonstrated petient comfort and shown effective collarette cure, mite eradication and erythema cure in 2 pivotal studies.

WHAT CAN WE ALL DO?

Look for collarettes during every slit lamp exam – collarettes are the pathognomonic sign of *Demodex* blepharitis
 Share images of collarettes with your peers to equip them with knowledge to properly diagnose *Demodex* blepharitis



43

Thank you

44