

Demodex Blepharitis and Coexisting Bacterial Burden in Eye Care Patients: The Pandora Study

Presented at ASCRS 2022

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PURPOSE

- Evaluate the bacterial composition on the eyelid margin of patients with and without collarettes

METHODOLOGY**Subject Demographic**

Without *Demodex* blepharitis (mean age 63.7 ± 13.9 years)
n=26

69.2% ♀ ♂ 30.8%

With *Demodex* blepharitis (mean age 70.9 ± 7.2 years)
n=38

50.0% ♀ ♂ 50.0%

100 patients

**Study Design**

Ongoing prospective, single-center, observational study
Clinical measurements signifying *Demodex* blepharitis:

- Without *Demodex* blepharitis
 - Collarette Grade 0: 0-2 lashes with collarettes
- With *Demodex* blepharitis
 - Collarettes Grade 2-4: >10 collarettes to $\geq 2/3$ (~150) lashes with collarettes

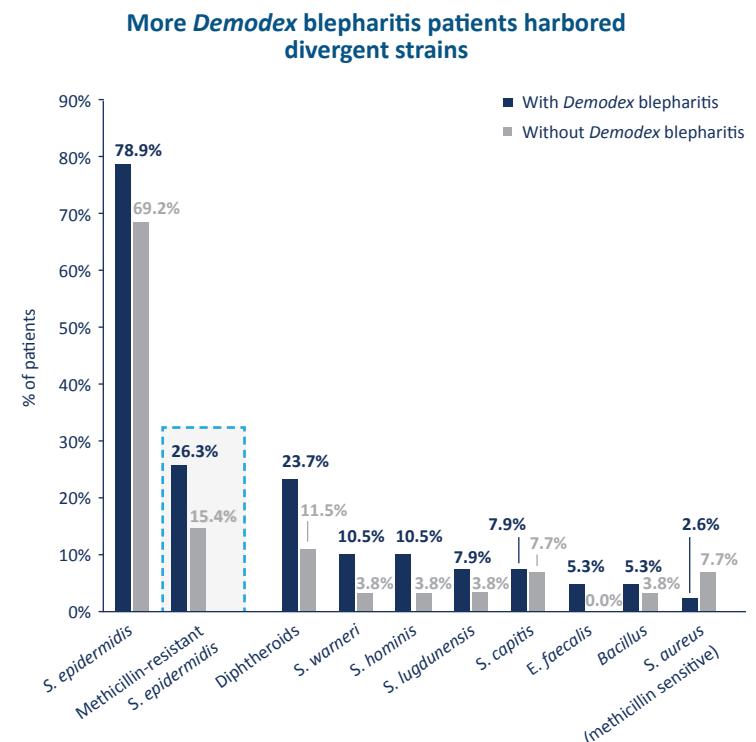
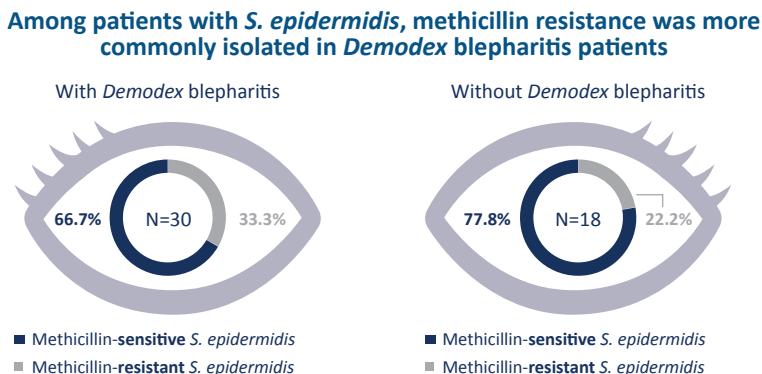
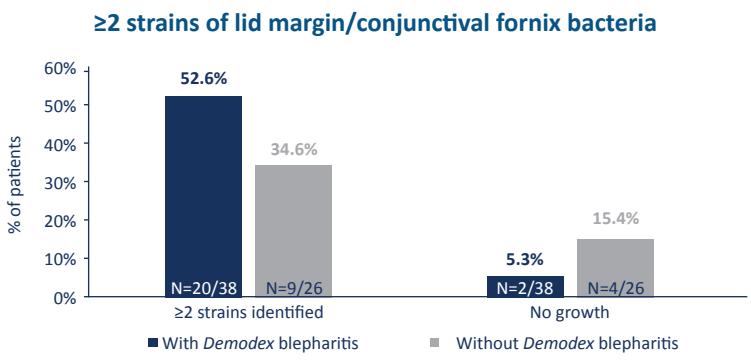
All eyelid/conjunctival swabs sent for culture on blood, Chocolate and Sabouraud agar plates, and Gram staining.

**Study Site(s)**

- 1 US site

FINDINGS

See the graphs below that highlight **bacterial presence**, specifically those bacteria seen in *Demodex* blepharitis patients.

**CONCLUSION**

Demodex blepharitis patients may facilitate or be a vector for a greater number of bacteria (methicillin-resistant *S. epidermidis*, *E. faecalis*, *S. hominis*, *S. warneri*, *S. lugdunensis*, *Bacillus*, and diphtheroid strains).



Majority of methicillin-resistant *S. epidermidis* patients (n=13 of 14 eyes; ~93%) appear resistant to multiple drugs.



A larger sample size study is needed to confirm observed trends.