# Medical Value Asset / Ocular Surface Disease

#### **ASCRS Cornea Clinical Committee Guidelines**

Starr CE, Gupta PK, Farid M, Beckman K, Chan CC, Yeu E, Gomes J, Ayers BD, Berdahl JP, Holland EJ, Kim T, Mah FS, the ASCRS Cornea Clinical Committee. An algorithm for the preoperative diagnosis and treatment of ocular surface disorders. J Cataract Refract Surg. 2019;45:669-684

## Johnson Afohnson vision

WHY THIS MATTERS: Consensus-based clinical practice guidelines represent the intention of a profession to elevate and transform the standard of care for patients. These guidelines acknowledge the importance of screening for and addressing visually significant ocular surface disease due to its potential direct adverse effect on visual quality and acuity both preand post-operatively. Ocular surface health cannot be maintained or rehabilitated in the absence of healthy meibomian gland function, as meibomian glands are the foundation of a healthy tear film, stable vision, and ocular comfort.

#### **REACTIVE PRACTICE**

Evaluation for OSD is only triggered if the patient has advanced to having and complaining of OSD related symptoms

### **PROACTIVE PRACTICE**

**NEW GUIDELINES:** OSD should be ruled out or addressed prior to cataract and refractive surgery in all patients, regardless of symptoms

# NEW GUIDELINES AND THE JJV PORTFOLIO

- 1. Perform thorough evaluation of the eyelids to rule out MGD and blepharitis.
  - 2. Treat clinically significant MGD and blepharitis PRIOR to all cataract and refractive surgery, regardless of the presence or absence of symptoms.
  - 3. LipiFlow<sup>®</sup> Thermal Pulsation 'is the favored preoperative MGD procedural treatment of over 80% of ASCRS Cornea Clinical Committee members.'

If positive: Perform tests to ESSENTIAL SCREENING TESTS PART 1: determine subtype to target treatment Symptoms: ASCRS SPEED II PREOP Questionnaire (includes meibography) OSD Screen • Signs: Osmolarity + inflammatory marker (MMP-9) If negative: Move onto the clinical exam • Look: Blink quality, lids & lashes for blepharitis, corneal or ocular surface abnormalities • Lift: Upper eyelid, examine superior surface **PART 2:** • Pull: Assess lid laxity 'floppy eyelids,' fornices Clinical • **Push:** Meibomian gland expression (with MGE); meibography: optional to help stage severity Examination • Vital Dye Staining: corneal staining and tear film break up time Refers to management recommendation from Global Medical Consensus (TFOS DEWS II); start from Step 2 (Recall that Step 1 is the OTC phase of treatment) PART 3: • Lid Margin Disease treatments: LipiFlow (MGD), BlephEx (Blepharitis), other external lid heating devices, omega-3 supplements Treatment based on subtype/ • Antiinflammatory treatments: Prescription treatments, e.g. topical steroids, cyclosporin A, severity lifitegrast, oral tetracyclines • Ocular surface staining treatment: various OTC/Rx drops, amniotic membranes, punctal plugs • Treat and proceed with surgery: early stage or asymptomatic OSD (non-visually significant): counsel of high likelihood of condition worsening as a result of surgery; recommend prophylactic Treat and treatment before and after surgery Proceed with Surgery or Delay • Delay surgery until OSD is resolved: for patients with visually significant OSD\* + other characteristics (e.g. irregular astigmatism, MGD, corneal abnormalities, central corneal staining) \*Visually significant OSD: potential direct adverse effect on visual quality and acuity both pre and post-operatively; OSD will lead to imprecision of presurgical measurements causing 'refractive misses'

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