TFOS LIFESTYLE EPIDEMIC REPORT

DED YOU OW

The world we live in has an impact on the ocular surface and contributes to the causes of dry eye disease (DED)¹

The TFOS Lifestyle Report lists various environmental factors, such as climate, pollutants, and allergens, that can affect the ocular surface¹



Many patients with DED experience frequent exacerbation of ocular discomfort due to various environmental stressors.¹

Climate conditions

- Wind speed
- Sunlight • Temperature
- Altitude Water vapor
- Humidity

Outdoor

- Gases • Air pollutants
- Aerosols
- Allergens

Indoor

(Home, office, industrial and medical facilities, airplanes, etc)

- Gases
- Illumination
- Air pollutants
- Humidity
- Air conditioning
 Allergens

TFOS, Tear Film & Ocular Surface Society.



A core mechanism of DED involves stress from desiccation* that damages the ocular surface^{1,2}

Environmental conditions may contribute to the tear film alterations that drive this core mechanism of action. Conditions include¹:



Higher temperatures

- Increased tear evaporation
- Increased TFBUT
- Altered meibum lipids



Higher humidity

- Meibomian gland loss
- Evaporative DED



Exposure to nitrogen dioxide

- Decreased TFBUT
- Meibomian gland dysfunction

Increased air pollution from burning biomass

- Increased tear film instability
- Ocular surface staining
- Irritating ocular symptoms



Exposure to allergens

- Tear film instability
- Ocular surface damage



Indoor and outdoor environmental exposures could be contributing to the signs and symptoms of evaporative DED in your patients

Find out about a treatment option for patients with evaporative DED.

*Desiccation is the drying of the ocular surface due to tear evaporation exceeding tear production.²

TFBUT, tear film breakup time.

References: 1. Alves M, Asbell P, Dogru M, et al. TFOS Lifestyle Report: Impact of environmental conditions on the ocular surface. *Ocul Surf.* 2023;29:1-52. doi:10.1016/j.jtos.2023.04.007 **2.** Bron AJ, de Paiva CS, Chauhan SK, et al. TFOS DEWS II pathophysiology report. *Ocul Surf.* 2017;15(3):438-510. doi:10.1016/j.jtos.2017.05.011

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