

# **Toxic Anterior Segment Syndrome: A Comprehensive Review of Literature**

Mohammad R. Naqeeb, MD\*

## **ABSTRACT**

Toxic anterior segment syndrome (TASS) is a sterile, acute, uncommon inflammatory response that occurs after surgery. This literature review aims to investigate TASS epidemiology, diagnosis, and management and provide updated evidence from previous TASS cases. Determining the specific TASS reason is usually challenging. TASS is associated with several complications, such as apoptosis, necrosis, and toxic cell damage. Some studies suggest that it may occur after cataract surgery among about 1 per 1,000 people who undergo surgery. Diagnosis of TASS is challenging because its signs and symptoms are like infectious endophthalmitis. The diagnosis of TASS involves laboratory tests and clinical evaluation as follows: slit lamp examination, tonometry, and examination of corrected distance visual acuity are used to distinguish the clinical characteristics of TASS. Although the treatment for TASS varies based on the severity of cases, topical corticosteroids remain the cornerstone of therapy.

*Keywords: Diagnosis; Management; Toxic anterior segment syndrome; Treatment*

*Bahrain Med Bull 2026; 48 (1): 2998-3003*

---

\* College of Medicine, Umm Al-Qura University  
Makkah, SAU.  
Email: mrnaqeeb@uqu.edu.sa