

Nominees 10 most significant publications

Major Textbooks

1. **Ali MJ.** 'Principles and Practice of Lacrimal Surgery', 2nd Edition, 500 pages, 2018, Springer, Germany.
2. **Ali MJ.** 'Atlas of Lacrimal Drainage Disorders', 1st Edition, 800 pages, 2017, Springer, Germany.

Ali MJ. Idiopathic Canalicular Inflammatory Disease: New Disease Description of Clinical Patterns, Investigations, Management, and Outcomes. *Ophthalmic Plast Reconstr Surg.* 2018;34(6):528-532.

Major Papers

1. **Ali MJ,** Zetzsche M, Scholz M, Hahn D, Gaffling S, Heichel J, Hammer CM, Brauer L, Paulsen F. New insights into the lacrimal pump. *Ocul Surf* 2020;S1542-0123(20)30120-8 (Epub).

Importance: – This is the first paper to place totally new anatomical, biochemical and physiological properties of Horner's-Duverney muscle. The name of this muscle was also proposed by the authors (Ali MJ and Paulsen F) in their earlier publication.

2. **Ali MJ.** Idiopathic canalicular inflammatory disease: New disease description of clinical patterns, investigations, management, and outcomes. *Ophthalmic Plast Reconstr Surg.* 2018;34(6):528-532.

Importance: – This paper described a new disease entity, its classification, staging and management options with their outcomes. Subsequent updates on this new disorder reflects widespread acceptance of this condition in medical communities across the globe.

3. **Ali MJ**, Kumar NS, Brauer L, Paulsen F, Shicht M. Expression of surfactant proteins in the human canaliculus: evidence and potential insights into tear flow dynamics. *Ophthalmic Plast Reconstr Surg* 2018;34:594-597.

Importance: – First ever paper to demonstrate Lung surfactant proteins in the human tear ducts

and its role in tear flow from the eyes to the nasal cavity.

4. **Ali MJ**, Glockner M, Shicht M, Brauer L, Paulsen F. Detection of intrinsic cholinergic system in the human lacrimal drainage system: evidence and potential implications. *Graefes Arch Clin Exp Ophthalmol* 2018;256:2097-2102.

Importance: - This is the first paper to describe the presence and roles of cholinergic system in the tear ducts. This work subsequently led to many theories linking this system to common diseases of the tear ducts

5. **Ali MJ**, Schicht M, Paulsen F. Qualitative hormonal profiling of the lacrimal drainage system: potential insights into the etiopathogenesis of primary acquired nasolacrimal duct obstruction. *Ophthal Plast Reconstr Surg* 2017;33(5):381-388.

Importance: - This is the first paper to investigate a wide-array of hormonal profile of the tear ducts and linking them to a common disorder called primary acquired nasolacrimal duct obstruction. This paper also revealed why female gender suffers more as compared to males.

6. **Ali MJ**, Naik MN. First Intraoperative experience with three-dimensional (3D) high-definition (HD) nasal endoscopy for lacrimal surgeries. *Eur Arch Otorhinolaryngol* 2017;274(5):2161-2164.

Importance: - As the title mentions, this was the first 3D lacrimal surgery globally. We put up guidelines for its use subsequently.

7. **Ali MJ**, Singh S, Naik MN. The Usefulness of continuously variable view rigid endoscope in lacrimal surgeries – First intraoperative experience. *Ophthal Plast Reconstr Surg* 2016;32(6):477-480.

Importance: - As the title suggests, this was the first global intraoperative experience with these special surgical telescopes for tear duct surgeries.

8. **Ali MJ**, Mishra DK, Baig F, Lakshman M, Naik MN. Punctal stenosis: Histopathology, Immunology and Electron microscopic features- A step toward unraveling the mysterious etiopathogenesis. *Ophthal Plast Reconstr Surg* 2015;31(2):98-102.

Importance: - This paper for the first time put forth etiopathogenesis of stenosis of the tear duct openings. This paper was recognized by ASOPRS 2015's (Las Vegas) as the most path breaking work of the year.

9. **Ali MJ**, Naik MN. Canalicular wall dysgenesis: the clinical profile of canalicular hypoplasia and aplasia, associated systemic and lacrimal anomalies, and clinical implications. *Ophthal Plast Reconstr Surg* 2013;29(6):464-468.

Importance: - This paper again describes a new disease entity. We named it, classified it into 8 sub-types with guidelines on how to diagnose and manage this new disease.

10. Ali MJ, Mariappan I, Maddileti S, Ali MH, Naik MN. Mitomycin C in dacryocystorhinostomy: the search for the right concentration and duration – a fundamental study on human nasal mucosa fibroblasts. *Ophthal Plast Reconstr Surg* 2013;29(6):469-474.

Importance: - This paper was the first to give directions to the dose and concentration of Mitomycin C use in tear duct surgery. This is now being used all over the world.