

List of 10 Best Papers of the Applicant highlighting the important contributions in them briefly

1. Simple oral mucosal epithelial transplantation (SOMET) for ocular surface reconstruction in Stevens-Johnson Syndrome: A case report.

Doctor MB, Rajagopal RN, Basu S. Int J Surg Case Rep. 2023 Aug 9;110:108643. doi: 10.1016/j.ijscr.2023.108643. Epub ahead of print. PMID: 37574632.

Contribution and Impact: This paper was the first description of a novel technique of oral mucosal cell transplant for cases of bilateral corneal limbal stem cell deficiency in patient of Steven Johnson Syndrome. This work is published just few days ago.

2. Lacrimal Gland Insufficiency in Aqueous Deficiency Dry Eye Disease: Recent Advances in Pathogenesis, Diagnosis, and Treatment

Doctor MB, Basu S. Lacrimal Gland Insufficiency in Aqueous Deficiency Dry Eye Disease: Recent Advances in Pathogenesis, Diagnosis, and Treatment. Semin Ophthalmol. 2022 May 19:1-12. doi: 10.1080/08820538.2022.2075706. Epub ahead of print. PMID: 35587465.

Contribution and Impact: This review article focuses on the significant advances in the understanding, diagnosis and management of lacrimal gland insufficiency and its role in ADDE that have taken place within the second half of the last decade. Citations: 7

3. Aqueous-deficient dry eye disease: Preferred practice pattern guidelines on clinical approach, diagnosis, and management.

Donthineni PR*, Doctor MB*, Shanbhag S, Kate A, Galor A, Djalilian AR, Singh S, Basu S. Indian J Ophthalmol. 2023 Apr;71(4):1332-1347. doi: 10.4103/IJO.IJO_2808_22. PMID: 37026265; PMCID: PMC10276701.

Contribution and Impact: This review discusses the various etiologies of aqueous deficiency dry eye diseases, diagnostic and various treatment options. We also present the current standards and discuss ongoing research in this field. Through this review, we propose a treatment algorithm that would be useful for an ophthalmologist in diagnosing and managing individuals with aqueous deficiency dry eye diseases. Citations: 3

4. Drug-induced pemphigoid: Clinical presentation, diagnosis, and management of gliptin-associated cicatrizing conjunctivitis

Kate A, Doctor MB, Basu S. Drug-induced pemphigoid: Clinical presentation, diagnosis, and management of gliptin-associated cicatrizing conjunctivitis. Ocul Surf. 2022 Jul 31;26:50-52. doi: 10.1016/j.jtos.2022.07.004. Epub ahead of print. PMID: 35921941. Citations: 2

Contribution and Impact: This cases series highlight the need for an increased awareness amongst ophthalmologists regarding the adverse effect profile of the DPP-4i group of anti-diabetic medications. These can cause drug induce BP like features, hence it may also be useful to be aware of this association and avoid starting gliptins de novo in diabetic patients who already have mucous membrane pemphigoid or cicatrizing conjunctivitis due to other causes.

5. Management of Symblepharon Prior to Keratoprosthesis in Chronic Ocular Burns: A Sequential Approach

Kate A, Doctor MB, Shanbhag SS. Management of Symblepharon Prior to Keratoprosthesis in Chronic Ocular Burns: A Sequential Approach. Cureus. 2022 Apr 29;14(4):e24611. doi: 10.7759/cureus.24611. PMID: 35651470; PMCID: PMC9138626.

Contribution and Impact: This case report emphasizes the importance of addressing a symblepharon with an oral MMG before implanting a KPro to prevent any recurrences and to have a longer longevity of the surgical procedure. We also highlight that the oral mucosa is a better alternative than amniotic membrane in such complex cases.

6. Tocilizumab in Recalcitrant Bilateral Scleritis in a Case of Relapsing Polychondritis: A 17-year Follow Up

Doctor M, Murthy SI, Rajasekhar L. Tocilizumab in Recalcitrant Bilateral Scleritis in a Case of Relapsing Polychondritis: A 17-year Follow Up. Ocul Immunol Inflamm. 2022 Jun 13:1-4. doi: 10.1080/09273948.2022.2058555. Epub ahead of print. PMID: 35695904.

Contribution and Impact: This case report shows that ocular disease may precede systemic symptoms in some cases, knowledge of which could be useful for identification of the systemic condition as well. Newer agent such as tocilizumab appears to be effective in controlling this relentless and recurrent disease.

7. Profile of infantile strabismus at a tertiary eye care center in India

Doctor MB, Sachadeva V, Kekunnaya R. Profile of infantile strabismus at a tertiary eye care center in India. Indian J Ophthalmol. 2022 Aug;70(8):3056-3060. doi: 10.4103/ijo.IJO_543_22. PMID: 35918972.

Contribution and Impact: This study shows the prevalence pattern of squint in infancy in the Indian population. Our results found that pre-term infants had a high risk of developing esotropia. The various risk factors must be kept in mind and awareness must be created among pediatricians for close observation of such children and emphasize on the importance of early referral. Our study also found that infants who underwent squint surgery had a significant improvement in ocular alignment and hence we recommend early screening and referral for strabismus especially in patients with family history, developmental delay, refractive errors, and other risk factors, for timely referral and appropriate management.

8. Clinical characteristics of comorbid retinal dystrophies and primary angle closure disease

Parameswarappa DC, Doctor MB, Natarajan R, Rani PK, Garudadri C, Jalali S, Senthil S. Clinical characteristics of comorbid retinal dystrophies and primary angle closure disease. Int Ophthalmol. 2022 Oct;42(10):3137-3144. doi: 10.1007/s10792-022-02313-6. Epub 2022 May 18. PMID: 35585370.

Contribution and Impact: Retinitis pigmentosa is the most common retinal dystrophy associated with Primary angle closure disease, but rarely studies so far. Hence our study shows that it calls for screening for angle closure in eyes with retinal dystrophies from second decade onwards to identify prevent further loss of vision due and to treat them appropriately. Citations: 1

9. Intralenticular copper foreign body

Doctor MB, C Parameswarappa D, Vaddavalli PK, Rani PK. Intralenticular copper foreign body. BMJ Case Rep. 2020 Dec 22;13(12):e240757.

Contribution and Impact: This case report shows that Intralenticular metallic foreign bodies usually cause localised opacities. However, it can lead to the development of total cataract, or severe ocular toxicity. Hence, early surgical intervention provides the best opportunity to tackle the condition's acute complications as well as preventing long-term damage while maintaining a good visual outcome. Citation: 4

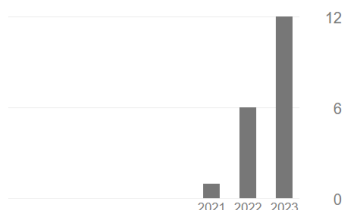
10. Medical management of silicone oil associated acute postoperative ocular inflammation

Doctor MB, Parameswarappa DC, Rani PK. Medical management of silicone oil associated acute postoperative ocular inflammation. BMJ Case Rep. 2021 Jul 9;14(7):e242251.

Contribution and Impact: This case report shows presentation of acute silicone oil induces anterior chamber inflammation, mimicking endophthalmitis. We show the importance of close observation and resolution of the inflammation with medical management. Citations: 1

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