

Complex ophthalmic cases: Diagnosis and management.

Mariam El Sayed*

Department of Ophthalmology, Alexandria University, Egypt

Introduction

This review synthesizes recent case reports published in Ophthalmology Case Reports, offering insights into a spectrum of challenging ophthalmic conditions and their management. The initial case details a rare presentation of anterior segment dysgenesis in a pediatric patient, emphasizing the diagnostic complexities and the successful surgical intervention to restore visual function. The study underscores the critical role of early intervention and individualized surgical strategies for optimal treatment outcomes in such intricate congenital anomalies [1]. Following this, an unusual manifestation of Fuch's heterochromic iridocyclitis in an adult is presented, highlighting atypical clinical features and the patient's response to medical therapy. This case reinforces the variability in disease presentation and the necessity of persistent follow-up to achieve satisfactory therapeutic results [2]. Another significant case reports a challenging management scenario of a corneal hydrops secondary to keratoconus in a young patient. The successful outcome achieved with intrastromal corneal ring segments (ICRS) placement demonstrates a less common yet effective treatment option for enhancing visual acuity and halting disease progression [3]. The subsequent report illustrates a rare case of iridocorneal endothelial syndrome (ICES) with atypical manifestations, detailing the diagnostic process and the long-term management strategy. The study focuses on the utilization of topical medications and selective laser trabeculoplasty as initial therapeutic measures to control intraocular pressure and preserve vision [4]. Furthermore, a case report describes an unusual presentation of acute anterior uveitis in a patient with an underlying autoimmune disorder. The focus is on the diagnostic hurdles and the multimodal treatment approach, including systemic immunosuppression and topical corticosteroids, which led to favorable treatment outcomes [5]. The following article highlights a rare case of scleral thinning with associated iris prolapse, presenting a unique surgical challenge. The report meticulously details the technique of lamellar scleral grafting and subsequent iris reconstruction, thereby demonstrating effective treatment outcomes in a complex anterior segment anomaly [6]. Another case study concentrates on an atypical presentation of congenital glaucoma with pronounced iris abnormalities and severe corneal opacification. The report discusses the crucial early surgical intervention using goniotomy and the subsequent medical management, underscoring the

paramount importance of prompt diagnosis for vision preservation [7]. The next contribution presents a rare instance of corneal edema and anterior uveitis following uneventful cataract surgery, exploring potential etiologies and management strategies. The successful resolution with intensive topical corticosteroid therapy underscores the importance of vigilant observation for unexpected postoperative complications [8]. Additionally, a case report details a unique presentation of iritis with hypopyon in a patient with no identifiable systemic cause. The focus is on the diagnostic workup and the therapeutic response to topical and systemic steroids, with the outcome illustrating the efficacy of aggressive treatment in managing severe anterior uveitis [9]. Finally, the review concludes with an article detailing a rare case of iris neovascularization secondary to central retinal vein occlusion (CRVO), presenting with anterior segment ischemia. It outlines the multimodal management, including panretinal photocoagulation and intravitreal anti-VEGF therapy, aimed at addressing the complications and improving visual prognosis [10].

Conclusion

This compilation of case reports from Ophthalmology Case Reports addresses a variety of complex ophthalmic conditions. It features a pediatric case of anterior segment dysgenesis with successful surgical management, an adult case of atypical Fuch's heterochromic iridocyclitis, and a young patient with corneal hydrops due to keratoconus treated with ICRS. The reports also cover iridocorneal endothelial syndrome (ICES) managed with topical therapy and SLT, acute anterior uveitis linked to an autoimmune disorder, and scleral thinning with iris prolapse treated surgically. Further cases include congenital glaucoma with unusual iris and corneal findings, post-cataract surgery complications of corneal edema and uveitis, sterile hypopyon iritis, and iris neovascularization secondary to central retinal vein occlusion. These cases collectively highlight diagnostic challenges, the importance of early intervention, tailored treatment strategies, and effective management of rare and complex anterior segment and retinal conditions.

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*Correspondence to: Mariam El Sayed, Department of Ophthalmology, Alexandria University, Egypt. E-mail: mariam.elsayed.ocr@yahoo.com

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