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Challenging Management Post Phakic Intraocular Lens Implant in High Myopia with Complicated Cataract After Vitrectomy: A Case Report

Abstract Title

Challenging Management Post Phakic Intraocular Lens Implant in High Myopia with Complicated Cataract After Vitrectomy: A Case Report

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Introduction

Treatment for high myopia and its complications remain a challenge. This case report is aimed to highlight the dilemma in managing complications following multiple intraocular surgeries, in high myopia patient who previously had refractive surgery.

Case Illustration

A 37-year old man with history of high myopia and phakic intraocular lens (PIOL) implantation 12 years ago came with inferior retinal detachment in RE with presented visual acuity of HM. Patient underwent vitrectomy with silicone oil four days after admission. One month after surgery, intraocular pressure (IOP) was increased to 43 mmHg and large lens particle seen in AC. He was given antiglaucoma medication and had lens extraction surgery one month later where we found small rupture in posterior capsule.

Discussion

PIOL is a safe and effective technique to correct high myopia. However, it won't prevent future ocular problems such as RD. RD itself is common in moderate to high myopia, in our case the patients promptly managed with PPV and silicone oil tamponade. Posterior capsule rupture following vitrectomy is causing impaired capsule integrity that leads to traumatic cataract and retained lens fragment. Furthermore, the fragments may induce secondary glaucoma. Three months after lens extraction, rubeosis iridis appeared which may indicate the presence of retinal re-detachment, hence the prognosis is still doubtful.

Conclusion

High myopia can be corrected by refractive surgery but the cost is high and it won't prevent future ocular problems. Preoperative assessment and closely monitor the patient's condition are mandatory in order to prevent sight-threatening complications of high myopia.

Keyword

high myopia, retinal detachment, lens-particle glaucoma

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