Anterior Segment

ANTERIOR SEGMENT OPTICAL COHERENCE TOMOGRAPHY IMAGING IN LATE CAPSULAR BAG DISTENSION SYNDROME

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Purpose: Late capsular bag distension syndrome (CBDS) is a rare complication of the cataract surgery. Anterior segment optical coherence tomography (AS-OCT) was used to establish the correct diagnosis.

Methods: A two-year retrospective review of 9 cases was undertaken. Patients showed signs of late CBDS in the period of 4–9 years after uncomplicated phacoemulsification with intraocular lens implantation into the capsular bag.

Results: All 9 patients presented with a turbid fluid collection within the distended capsular bag without raised intraocular pressure or a shallow anterior chamber. AS-OCT was used to confirm the diagnosis, and a hyper-reflective material was seen in the space between the posterior chamber intraocular lens and the distended posterior capsule. Aspiration of the milky fluid with 26 gauge needle followed by capsular bag lavage was performed. Aspirated fluid was examined.

Conclusion: Our study showed that AS-OCT is quick and useful method of imaging the anterior segment to differentiate this condition clearly from posterior chamber intraocular lens opacification and posterior capsule opacification. Awareness of the manifestations of CBDS and choice of the correct imaging modality may lead to regular diagnosis, successful treatment and avoidance of the unacceptable results related to mismanagement. Management with aspiration of the milky fluid and lavage of the capsular bag is technically safe and effective procedure. It has the advantage of microbial and pathological testing of the fluid. Due to possibility of an infectious component in the aetiology of the syndrome, choosing Nd-YAG laser posterior capsulotomy in the management of late CBDS bears risk of spread of potential infection to the vitreous and cause endophthalmitis. CBDS is referred to as the rare complication, but our study showed that it is more common than it is reported and an increased awareness will reveal additional cases.

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