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CASE REPORT

Total Lens Dislocation Caused by Pseuodexfoliation

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ABSTRACT

Pseudoexfoliation (PXF) is a well-known cause of complications during cataract surgery, particularly dropped nucleus and vitreous loss. Such complications must be managed by appropriate vitreoretinal intervention.

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Key words: Cataract surgery; Complications; Vitreous loss

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INTRODUCTION

A 78 year old lady underwent cataract surgery. Pseudoexfoliation (PXF) and phacodonesis were noted pre-operatively, but the eye was otherwise healthy. The intraocular pressure was normal, the pupil dilated well and there was no glaucomatous neuropathy. On the operating table, the crystalline lens was quite mobile but capsulorrhexis and hyrdodissection were completed satisfactorily. All the zonules appeared to be weak as there was no decentration in

any particular direction. However, the lens was too mobile to safely continue phacoemulsification and it was therefore decided to stabilise the lens with insertion of a capsular tension ring. Just as the ring was inserted, the entire lens dislocated into the vitreous cavity and required removal by pars plana vitrectomy (Figure 1).

DISCUSSION

PXF is a systemic disorder of unknown cause whereby amyloid-like proteins are abnormally deposited throughout the body. The condition can be found worldwide but is much more common in certain geographical areas, particularly Scandinavia. The chief manifestations are in the eye, where it can be discerned by slit lamp examination; it is a common cause of secondary glaucoma and is also associated with complications during cataract surgery, owing to lens/zonular instability. However, it may also manifest itself systemically, with evidence implicating PXF in cardiovascular diseases such as abdominal aortic anuerysm^[11], renal artery stenosis^[2], heart disease and stroke^[3].



Figure 1 legend Dropped nucleus and intra-capsular tension ring.

PXF is strongly associated with complications during cataract surgery, with a vitreous loss rate of up to 27%^[4]. Surgical strategies which may be indicated include pupil enlargement manoeuvres (stretching, iris hooks or the Malyugin ring), extreme caution when inflating the anterior chamber or performing hydrodissection and capsular tension ring or sutured tension ring (Cionni) segment insertion. In cases where phacodonesis is evident pre-operatively, it may be wise to refer the patient to a vitreo-retinal surgeon.

CONFLICT OF INTERESTS

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All authors have read and understood the policy on declaration of interests and declare the following interests: none.

All authors have contributed to the preparation of the article and take responsibility for the information contained herein.

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