Anterior segment optical coherence tomography-aided diagnosis and primary posterior chamber intraocular lens implantation with fibrin glue in traumatic phacocele with scleral perforation.

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Abstract:

We describe the case of a middle-aged woman who presented to us after injury from a clenched fist 3 days previously. The diagnosis was occult scleral perforation, severe conjunctival chemosis, and traumatic aphakia. However, the lens could not be localized during posterior segment examination. An anterior segment optical coherence tomography (AS-OCT) examination showed scleral discontinuity and a heterogeneous reflection in the subconjunctival area, suggesting a possible phacocele. Surgical exploration confirmed these findings. Aphakia was managed using the "glued intraocular lens" technique in the same sitting. This case highlights the use of AS-OCT in noncontact exploration of the traumatized anterior segment and in diagnosis of a possible phacocele along with an occult scleral perforation with uveal prolapse. To our knowledge, this is the first report of successful implantation of a glued IOL as a primary procedure combined with scleral perforation repair.