

TREATMENT OF TRAUMATIC HYPHEMA BY INTRACAMERAL INJECTION OF TISSUE PLASMINOGEN ACTIVATOR — ONE CASE REPORT

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Tissue plasminogen activator (TPA) is a serine protease that converts plasminogen to plasmin. Plasmin will bind to fibrin and result in fibrinolysis. We presented a forty-year-old male who had traumatic hyphema with dense blood clot, anterior chamber fibrin formation and glaucoma in the right eye. After twice unsuccessful anterior chamber irrigation/aspiration, intraoperative rebleeding developed after the second operation and post-operative intraocular pressure (IOP) elevation was noted.

He was transferred to our hospital and intracameral injections of TPA (5(g) with irrigation/aspiration procedures were performed twice. Clotted blood resolved and IOP returned to normal. 3 years later, the best-corrected visual acuity was 1.0. The anterior chamber was quiet and IOP remained normal. This case demonstrated that intracameral injection of TPA might be a simple and effective method for intractable hyphema combined with fibrous membrane.

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