

Globe rupture repair outcomes, experience from a tertiary VR centre

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Purpose : To identify the outcomes following globe rupture repairs

Setting : Western Eye Hospital, London a tertiary center in West London

Methods

A retrospective review in all cases of globe rupture was undertaken. The nature of the injury, vision, and exam findings at presentation, and intraoperative findings were recorded. Outcomes included vision at most recent follow-up, the development of complications, and the need for further surgery

Results

A total of 94 Patients were identified between September 2016- November 2023. The majority of those were men (84%) with average age 48.2 years. Nearly half of them (46 patients) had subsequent vitreoretinal surgery and 9 of those achieved final vision of 6/24 or better. Looking at the whole cohort of patients, visual outcomes varied with 16 patients achieving vision 6/12 or better, 8 patients having vision between 6/18-6/24 and 19 patients achieving vision of HMs or CFs. 21 patients had NPL, whilst 26.5% of patients developed phthisis. No patient developed sympathetic ophthalmia.

Conclusions

Globe rupture is a sight threatening condition, often affecting young men. Primary repair can be carried out by general ophthalmic surgeons and VR opinion can be given later. Some patients will require further vitreoretinal surgery and re-operations tend to be complex. Nevertheless, it is worth pursuing as some patients regain valuable vision.

