

## REVIEWER'S REPORT

Manuscript No.: IJAR-53228

Date: 11/08/2025

**Title: Favorable Outcome of Acute Hydrops in Keratoconus Patient Treated with Autologous Blood**

### Recommendation:

Accept as it is ☐☐☒☐☐

Accept after minor revision ☐☐☐☐

Accept after major revision ☐☐☐☐☐

Do not accept (*Reasons below*) ☐☐☐

Rating	Excel.	Good	Fair	Poor
Originality	✓			
Techn. Quality		✓		
Clarity		✓		
Significance		✓		

Reviewer Name: Sakshi Jaju

Date: 11/08/2025

### Reviewer's Comment for Publication.

This case report describes a 32-year-old man with advanced keratoconus who developed acute corneal hydrops. Initial conservative treatment with hypertonic saline and corticosteroid drops was unsuccessful. The patient was treated with an intrastromal injection of autologous blood, which acted as a biological plug, sealing the Descemet's membrane rupture. Within 15 days, complete resolution of stromal edema occurred, and after 3 months, the patient's condition remained stable, enabling visual rehabilitation with contact lenses. The report concludes that autologous blood is an effective and safe alternative to conventional methods like gas injection, avoiding risks such as cataract formation.

### Strengths:

1. Clear and concise case presentation with step-by-step treatment details.
2. Use of photographic and OCT images to document progress.
3. Explains the mechanism of autologous blood action.
4. Gives examples from real clinical trials.
5. Highlights advantages over traditional gas injection methods.
6. Emphasizes individualized patient care and follow-up.

### Weaknesses:

1. Single case report—results cannot be generalized.
2. No long-term follow-up beyond 3 months.
3. No comparison with other patients treated with different methods.

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4. Limited discussion of potential complications.
5. No quantitative measures of visual acuity improvement post-treatment.

### **Overall Assessment:**

This is a well-documented and informative case report showing the successful use of autologous blood in managing acute hydrops. It is valuable for ophthalmologists seeking alternative treatments, but more extensive studies are needed to confirm its general effectiveness and safety.

### **Recommendation:**

Manuscript accepted for the publication.