

REVIEWER'S REPORT

Manuscript No.: IJAR-56776

Title: Cataract Formation After Penetrating Keratoplasty: Clinical Predictors From a 58-Case Retrospective Study in a Tertiary Center.

Recommendation:

Accept after major revision

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

Reviewer's ID: JPR-198

Detailed Reviewer's Report

The manuscript titled “*Cataract Formation After Penetrating Keratoplasty: Clinical Predictors From a 58-Case Retrospective Study in a Tertiary Center*” addresses an important clinical issue. The study is relevant and generally well-structured. However, several important issues need clarification and improvement.

Major Comments

1. Small Sample Size and Limited Power

- The study includes 58 patients, with only 10 cataract events.
- This limits the strength of statistical conclusions, especially for identifying predictors.

The conclusions should be interpreted more cautiously.

2. Statistical Analysis Not Clearly Presented

- The manuscript states that some factors are “significantly associated,” but:
 - No p-values are reported in the results
 - No confidence intervals or effect sizes are shown

It is unclear how strong these associations are.

3. Unusual Significance Threshold

- The study uses $p < 0.005$ as the significance threshold.
- This is stricter than the conventional $p < 0.05$, but:

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- No justification is provided

The authors should justify this choice or revise it.

4. Corticosteroid Exposure Variable is Unclear

- “Average postoperative corticosteroid exposure” is analyzed, but:
 - It is not clearly defined (dose? duration? cumulative?)
- The negative finding may be unreliable due to unclear measurement.

This variable needs clear definition and method of calculation.

5. Baseline Lens Status Not Reported

- The study includes phakic patients, but:
 - No information on pre-existing lens opacity or grading

It is unclear whether cataracts were:

- New
- Or progression of pre-existing changes

6. Retrospective Design Limitations

- The authors mention limitations, but key missing variables include:
 - Intraoperative factors (e.g., iris manipulation)
 - Postoperative inflammation severity

These could influence results but were not analyzed.

Minor Comments

7. Lack of Detailed Data Presentation

- Results are mostly descriptive.
- No tables summarizing:
 - Risk factors vs cataract occurrence
 - Statistical comparisons

Adding a simple results table would improve clarity.

8. One reference (No. 6) is incomplete - Pagination missing

9. Minor Language/Formatting Issues - Requires basic editing.

- Some spacing errors (e.g., “preoperativevisualacuity”)
- Minor formatting inconsistencies