Safety and efficacy of "hydro-fluorescein" technique in removing Tenon in pterygium surgery: a 1-year follow-up study

By Abdul-Kadir, MA (Abdul-Kadir, Mohd-Asyraaf) [1] , [2] ; Hilmi, MR (Hilmi, Mohd Radzi) [3] ; Kamal, KM (Kamal, Khairidzan Mohd) [2]

Are you this author?

View Web of Science ResearcherID and ORCID (provided by Clarivate)

Source EYE

View Journal Impact

Volume: 39 Issue: 6 Page: 1081-1085

DOI: 10.1038/s41433-024-03539-7

Published APR 2025

Early Access DEC 2024

Indexed 2024-12-18

Document Type Article

Jump to ↓ Enriched Cited References

Abstract PurposeTo assess the effectiveness and safety of the "hydro-fluorescein" adjunct technique for primary pterygium removal.Design/methodsA non-randomized prospective study was conducted for various types of pterygium excision with superior bulbar conjunctival autograft (CAG) and fibrin glue. We introduced fluorescein staining to ensure thorough elimination of the Tenon tissue around the bare sclera area and the CAG. The primary outcome was the recurrence rate, and the secondary outcome was any complication associated with fluorescein staining.ResultsNinety-three participants with primary pterygium of Grades 1-3 were recruited and all completed follow-up for at least 1 year. No recurrence was identified during the follow-up period and no long-term adverse reactions were reported with the "hydro-fluorescein" method.Conclusion"Hydro-fluorescein" is effective and a safe adjunct in primary pterygium removal and is effective in various grades of pterygia to minimize recurrence with no adverse reaction within 1 year.

Keywords **Keywords Plus:** RECURRENT PTERYGIUM; TREATMENT OPTIONS; MITOMYCIN-C; CONJUNCTIVAL; MANAGEMENT; ADJUVANTS

Author Information

Corresponding Address: Kamal, Khairidzan Mohd (corresponding author)

Int Islamic Univ Malaysia, Dept Ophthalmol, Kulliyyah Med, Kuantan, Pahang, Malaysia

E-mail Addresses : akmasyraaf@unimas.my

Addresses :

[1] Univ Malaysia Sarawak, Dept Ophthalmol, Kota Samarahan, Sarawak, Malaysia

[2] Int Islamic Univ Malaysia, Dept Ophthalmol, Kulliyyah Med, Kuantan, Pahang, Malaysia

[3] Int Islamic Univ Malaysia, Kulliyyah Allied Hlth Sci, Dept Optometry & Visual Sci, Kuantan, Pahang, Malaysia
E-mail Addresses :
akmasyraaf@unimas.my

Data availability statement The datasets used and analyzed during the current study are available from the corresponding author upon reasonable request.

Categories/ Classification
Research Areas: Ophthalmology
Citation Topics: 1 Clinical & Life Sciences › 1.36 Ophthalmology › 1.36.686 Ocular Surface Disorders
Sustainable Development Goals: 03 Good Health and Well-being

Web of Science Categories Ophthalmology

MeSH Terms *From MEDLINE®* **Search terms found**

Chemical *From MEDLINE®*

+ See more data fields

Journal information

EYE

← View Journal Impact

1.24
Journal Citation Indicator ™ (2025)

ISSN	0950-222X
eISSN	1476-5454
Current Publisher	SPRINGERNATURE, CAMPUS, 4 CRINAN ST, LONDON N1 9XW, ENGLAND
Table of Contents	Current Contents Connect