



# DENGUE HEMORRHAGIC FEVER WITH SEVERE OCULAR COMPLICATION: CASE SERIES



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## Purpose:

To report a case series of three patients with severe ocular complication associated with dengue hemorrhagic fever (DHF).

## Method:

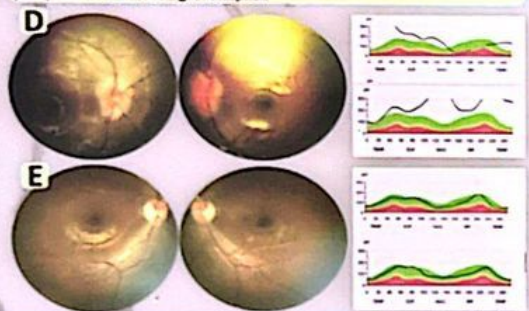
Prospective Case Series and literature review.

## Result:

Case 1 A girl 16 years presented with proptosis after diagnosed with DHF. Her visual acuity is no perception of light. All findings were consistent with panophthalmitis and retrobulbar hemorrhage supported by histopathology result. Unfortunately the right eye became ptosis and spontaneous prolapse caused by necrosis even canthotomy with cantolysis lateral and steroid therapy was done. Case 2 A Boy 10 years complained of bilateral blurring of vision within a month of being diagnosed with DHF. His visual acuity were hand movement on both eye with optic disc swelling on both of eyes. The visual acuity recovered to 6/6 in one month after steroid therapy with no optic disc swelling finding on fundus feature. Case 3 A man 52 years with proptosis and Dengue Shock Syndrome. The visual acuity are counting finger with optic disc swelling on both of eyes and limited eye movement to all direction. Patient was diagnosed with Optic Neuritis and Retrobulbar hemorrhage. Canthotomy with cantolysis lateral and steroid therapy was planed but the patient was died before therapy was done.



Case 1. A. Proptosis on The Right eye, B. CT scan showed Proptosis and Retrobulbar Hemorrhage, C. After recovered from dengue, the eye became panophthalmitis with no Light Perception



Case 2. D. Fundus Image and OCT RTFL showed optic disc swelling, E. Resolution Optic Disc after ONTT



Case 3. F Showed Proptosis and Chemosis on both eyes and Ophthalmoplegia on nine gaze

## Conclusion:

Ocular complications in dengue are rare. We need to be aware to patients with DHF who report visual symptom. Although visual recovery is possible, ocular complication associated with DHF may result in severe and permanent visual loss.

**Keyword:** Dengue Hemorrhagic Fever, Ocular Complication, Visual Loss.

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