

# Clinical insights into infectious neuroretinitis: case series

**Teh Shunzhor, Prema Chendran, Rozita Ismail**

Department of Ophthalmology, Hospital Sultan Idris Shah, Serdang, Selangor, Malaysia

## ABSTRACT

Infectious neuroretinitis, commonly caused by *Bartonella* species, which is usually transmitted via cat scratch. We report 3 cases of infectious neuroretinitis in single centre. Case-1: A 19-year-old Malay gentleman with a one-week history of left eye (LE) central scotoma, headache and vomiting. Vision LE hand movement. Examination showed LE optic disc (OD) swelling and macular star formation. He received 6-weeks of oral azithromycin. Post treatment LE vision improved to 6/24 with resolving scotoma. Case-2: A 27-year-old Malay lady, presented with one-day history of LE blurring of vision with fever and right cervical lymphadenopathy. Vision was right eye (RE) 6/9 and LE 6/60. Examination revealed bilateral asymmetrical bilateral OD swelling with retinitis and LE macular star. Fluorescein angiography showed bilateral OD hyperfluorescence and LE cystoid macular oedema. She completed one-week-of intravenous ceftazidime and 10-weeks-of oral doxycycline, rifampicin, and prednisolone. Clinically, LE vision improved to 6/9 with reducing OD swelling, retinitis and macular star. Case-3: A fifty-years-old Malay lady presented with two-weeks history of RE scotoma and fever. Vision RE counting finger. Examination showed presence of OD swelling, choroiditis, vitritis, and macular star over RE. She received 6-weeks-of oral doxycycline. RE vision was improved to 6/18 with reducing scotoma, OD swelling, and vitritis. These three patients had a history of unvaccinated cat scratches and positive IgG for *Bartonella Hensalae*. *Bartonella* neuroretinitis is clinical diagnosis. Treatment remains controversial, either antibiotics alone or antibiotics with steroid. Most patients achieve good visual recovery post treatment.