

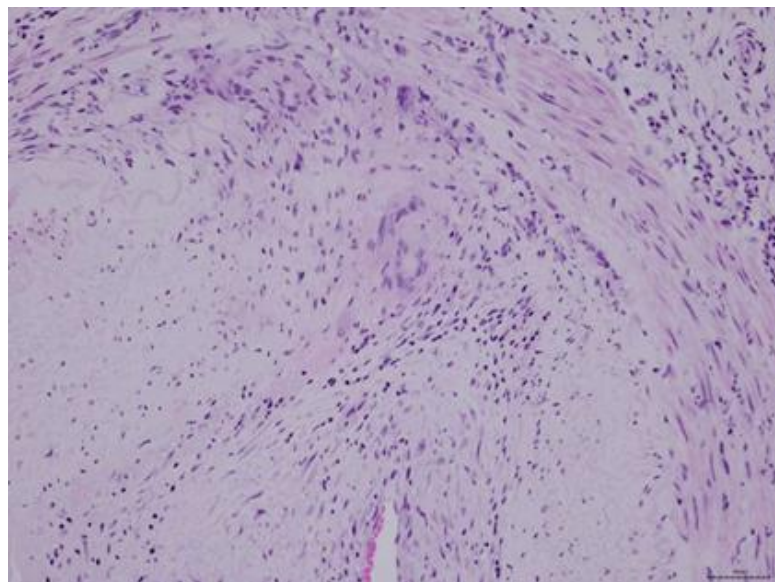
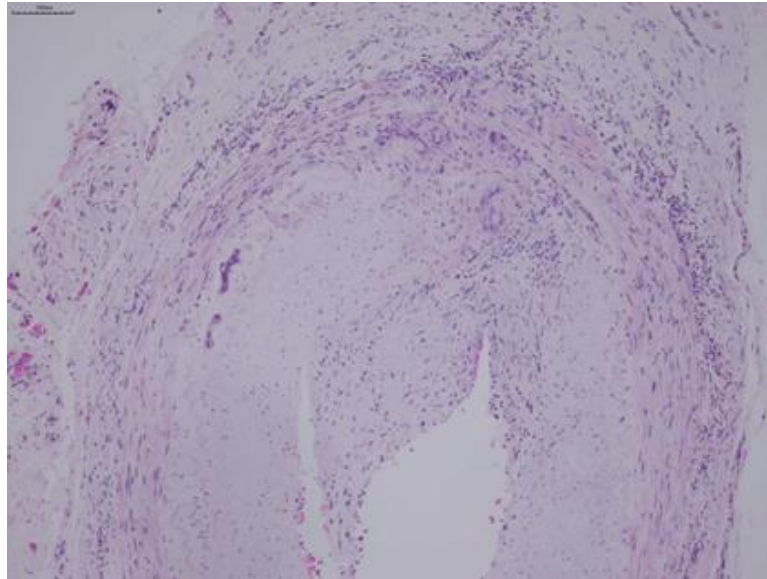
Rheumatology Quiz

Siriporn Juthong

Department of Internal Medicine, Faculty of Medicine, Prince of Songkla University, Songkhla 90110, Thailand.

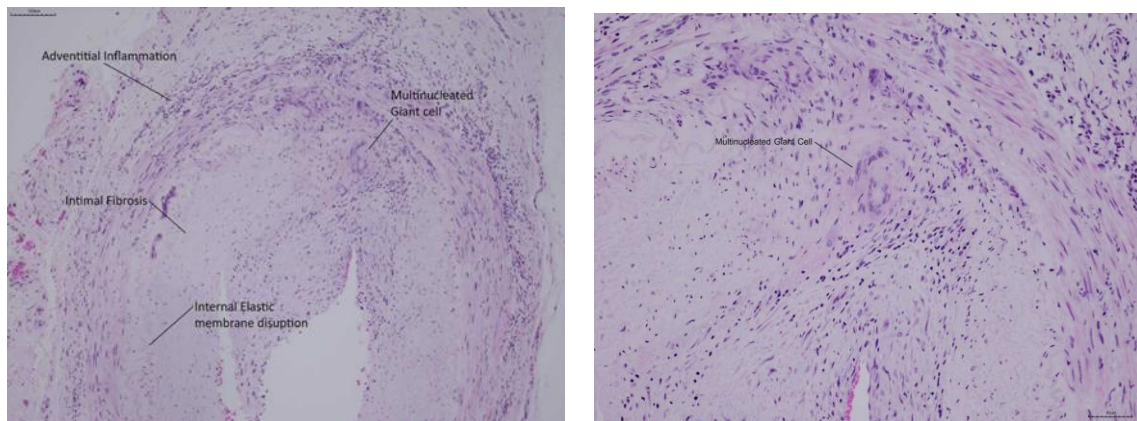
A 89-year-old man with sudden onset of visual loss in the left eye

1. Please describe any abnormal findings of histopathology.
2. What is the most likely diagnosis?



Answers

A 89-year-old man presented with a week's history of left temporal headache and jaw pain with chewing. He had previously experienced 2 weeks of myalgia and weight loss, as well as sudden onset of visual loss in the left eye. On physical examination, left temporal arteries were thickened, with tender on palpation, with diminished pulses. The ophthalmic examination revealed only light perception of left eye, consensual RAPD positive. Dilated fundus examination of left eye revealed diffuse swollen optic disc with "chalky white" appearance. Laboratory studies showed an erythrocyte sedimentation rate (ESR) of 78 mm/hr and a C-reactive protein (CRP) level of 5.2 mg/liter (reference value, <5). Doppler ultrasonography of both temporal arteries revealed mildly thickened wall of bilateral superficial temporal arteries but no definite perivascular hypochoic halo sign. Biopsy of the left temporal artery was done (figures).



[Courtesy Kanet Kanjanapradit, Department of Pathology, Faculty of Medicine, Prince of Songkla University, Hat Yai, Songkhla, Thailand], 2024.

- Cross-section of a temporal artery showing transmural inflammation of the involved vessel with multinucleated giant cells. Marked Disruption of the internal elastic membrane with intimal fibrosis.
- Histological findings consistent with giant cell arteritis involving the temporal artery

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