One Minute Ophthalmology

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Choroidal lymphoma or something else?

Case

A 54-year-old asymptomatic Caucasian woman with a history of psoriasis and chronic obstructive pulmonary disease (COPD) under treatment with topical and oral corticosteroids was referred for suspicion of choroidal lymphoma in both eyes (OU). The referring physician recommended treatment with rituximab, an anti-CD20 monoclonal antibody. On examination, best-corrected visual acuity was 20/20 in the right eye (OD) and 20/25 in the left eye (OS). The intraocular pressure, extraocular movements, and slit-lamp examination were normal OU. There was no conjunctival lymphoid infiltration OU. On funduscopic examination, there was a uniform mottled appearance of the choroid OU.

What is Your Next Step?

- A. Treat patient with rituximab
- B. Obtain optical coherence tomography (OCT)
- C. Perform fine-needle aspiration biopsy
- D. Advise external beam radiotherapy.

Findings

Funduscopically, the patient had diffuse subtle, yellow, mottled spots deep to the retina OU [Fig. 1 a and b], suggesting possible choroidal lymphoma. However, on autofluorescence [Fig. 1 c], there was localized hypo- and hyperautofluorescence OD (arrows) in the temporal macula, suggesting focally damaged retinal pigment epithelium (RPE), not typical for choroidal lymphoma which more often shows generalized RPE alterations. By OCT [Fig. 1 d], subretinal fluid (SRF) and pachychoroid were documented, measuring 310 µm, suggestive of central serous chorioretinopathy. Furthermore, there was no sign of choroidal infiltration with lymphoma as the choroidal vascular pattern was intact and lacking a "seasick" surface undulation.^[1]

Diagnosis

Central serous chorioretinopathy.

Correct Answer

B, Obtain optical coherence tomography (OCT).

Discussion

Central serous chorioretinopathy (CSCR) is a disorder involving choroidal vascular thickening and dilation of choriocapillaris with leakage of fluid under the RPE, producing RPE detachment and fluid accumulation under the retina. In a meta-analysis of 1098 cases of CSCR, 21% occurred in females, often with corticosteroid use.^[2] Therefore, our patient was advised to discontinue corticosteroids. For chronic CSCR, oral eplerenone or spironolactone, mineralocorticoid receptor antagonists, or photodynamic therapy can be employed.^[2,3] Bousquet *et al.* reported 3-month visual acuity outcome of 20/37 after eplerenone treatment, significantly improved from 20/66 (P < 0.001) at baseline, inferring the presumed role of corticosteroids in CSCR pathogenesis.^[3]

Declaration of patient consent

The authors certify that they have obtained all appropriate patient consent forms. In the form the patient(s) has/have given his/her/their

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Figure 1: A 54-year-old female was found to have a (a) retinal pigment epithelial (RPE) mottling superotemporal to the foveola in the right eye (OD), and mottled choroid in both eyes (a and b). Autofluorescence OD (c) showed hypo- and hyperautofluorescence near the fovea. Optical coherence tomography (d) documented subretinal fluid, outer retinal loss, and pachychoroid with pachyvessels

consent for his/her/their images and other clinical information to be reported in the journal. The patients understand that their names and initials will not be published and due efforts will be made to conceal their identity, but anonymity cannot be guaranteed.

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Conflicts of interest

There are no conflicts of interest.

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