Several recent reports have indicated a resurgence of the prevalence of syphilis in some regions of the world.\textsuperscript{1-4} Reported ophthalmic manifestations of syphilis include interstitial keratitis, uveitis, chorioretinitis, acute retinitis, retinal vasculitis, and cranial nerve and optic neuropathies,\textsuperscript{5} as well as rare manifestations such as gumma of the superior orbital muscle bundle and anterior nodular scleritis.\textsuperscript{6,7} These disorders can occur due to other etiologies, so a high index of clinical suspicion is required to identify \textit{Treponema pallidum} as the causative agent.

In this article, we report a case of acute placoid retinal pigment epitheliopathy secondary to tertiary syphilis, with acute loss of vision as the presenting complaint. Treatment and clinical outcome are discussed.

**CASE REPORT**

A 49-year-old white woman presented with rapid deterioration of vision in both eyes of 3 days' duration. Occasional photopsia was also reported. The patient reported painless, non-itchy, rough, reddish-brown rash over her upper and lower limbs and torso present for several weeks (Figure 1). She also had mouth ulcers and hoarseness of voice. Her medical history included treatment for hypertension, previous total abdominal hysterectomy, and bilateral salpingo-oophorectomy. Her medications included ramipril, omeprazole, and conjugated estrogens for hormone replacement therapy.

On examination, BCVA was 0.70 logMAR in the right eye (OD) and 0.90 in the left eye (OS) logMAR. The anterior chamber was quiet in each eye. Fundus examination showed circumscribed placoid areas of subtle retinal edema in the macular region in each eye (Figures 2 and 3).

Spectral-domain OCT showed irregularity and thickening of the retinal pigment epithelium (RPE) layer, hyperreflectivity of the outer nuclear layer, and obliteration of the outer limiting membrane in the macular region of each eye. The macula OD also showed evidence of subretinal fluid (SRF) at the fovea (Figures 4 and 5).

Fluorescein angiography (FA) showed fluorescent mottling of the macular region OS followed by leakage in the late frames, involving fairly circumscribed areas superior and inferior to the fovea. The fundus OD showed an area of diffuse hyperfluorescence in the late frames on FA, localized superior to the fovea and involving an area of about 2 disc diameters (Figures 6 and 7).

Relevant investigation results on presentation:

- Syphilis screen: Trypanemal screen (enzyme immunoassay) → Positive
- \textit{Trypanema pallidum} haemagglutination test (TPHA) → Positive (Ref.Lab.) > 1:10240
- \textit{Trypanema pallidum} IgM → Positive
- Venereal disease research laboratory/rapid plasma
Positive titre 1:32
- Cerebrospinal fluid polymerase chain reaction (PCR) → Positive for *Treponema pallidum*
- HIV → Negative

Treatment was initiated with a 14-day course of benzylpenicillin (2.4 g intravenous six times daily), along with oral prednisolone 20.0 mg for 4 days, 15.0 mg for 7 days, 10.0 mg for 7 days, and 5.0 mg for 7 days. The patient’s partner tested positive for syphilis and was also treated appropriately. Oral thrush was treated with nystatin (100,000 units/mL) 1 mL orally for 7 days and benzydamine HCl 0.15% w/v (Difflam, Difflam) oral rinse four times daily for 4 weeks.

After the course of penicillin, the patient’s vision recovered and the rashes resolved. BCVA was 0.00 logMAR OD and 0.06 logMAR OS. Fundus examination showed no significant abnormality in either eye. OCT showed reduced irregularity and thickening of the RPE layer and a well-defined outer limiting membrane in each eye. There was complete resolution of SRF OD (Figures 8 and 9).

**DISCUSSION**

The British Ocular Syphilis Study reported findings in 63 eyes of 41 patients during a 2-year surveillance. Bilateral involvement was noted in 56% of patients. After treatment, mean VA improved, with 92.1% of eyes achieving VA of 0.3 logMAR or better. Average duration of symptoms was 1 month. Moradi et al, in a study including 61 eyes of 35 patients seen at a referral center, reported stable visual outcomes with treatment.
in 33.3% of eyes and deterioration of vision in 13% of eyes.9

In the case reported here, the patient presented within 3 days of onset of visual deterioration, and features of placoid retinal pigment epitheliopathy prompted a comprehensive set of investigations, resulting in rapid diagnosis and treatment. Prompt initiation of treatment may have played a role in the impressive visual recovery in this patient.


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