Conjunctival pyogenic granuloma following insect bite

A woman in her thirties came to our primary eye care centre (vision centre) complaining of foreign body sensation and discharge in her right eye which she had been experiencing for three weeks. She had been bitten in the eye by an ant and an insect particle had been removed from the eye one week before the onset of symptoms. She had applied topical antibiotics that were prescribed locally but there was no improvement.

On examination at the vision centre, the vision in the right eye was 20/20. All the anterior segment findings were normal. However, upon eversion of the eyelid, a reddish-pink vascular pedunculated lesion was visible on the palpebral conjunctiva of the upper eyelid of the right eye (Figure 1).

The vision technician took a photograph (Figure 1) using the camera on a smart tablet and uploaded the photograph to the patient’s cloud-based electronic medical record. The medical record could be seen by the ophthalmologists based at the central hospital’s teleophthalmology centre. Teleconsultation with the ophthalmologist was requested and a provisional diagnosis of pyogenic granuloma was made. The patient was promptly referred to the central hospital (a tertiary centre) for further management.

Question 1
What is pyogenic granuloma?

a. A vascular lesion of infectious aetiology
b. A benign, non-tender, exuberant proliferation of granulomatous tissue in response to trauma or surgery
c. A malignant vascular proliferative lesion
d. A tender granulomatous lesion of inflammatory aetiology

Question 2
What is the key differential diagnosis for conjunctival pyogenic granuloma?

a. Dermolipoma
b. Dermoid cyst
c. Conjunctival concretions
d. Squamous cell carcinoma

Question 3
What are the management options for conjunctival pyogenic granuloma?

a. Topical antibiotics, hot fomentation, lid hygiene
b. Topical corticosteroids, removal of inciting agent, excision biopsy, pulsed dye laser
c. Topical lubricants and lid scrubs with baby shampoo
d. Topical anti-inflammatory agents and oral analgesics

ANSWERS