Slow-flow-type venous malformation of tongue
Kaushal Mahendra Shah,1 Amol Karagir,2 Shridevi Adaki2

DESCRIPTION
Vascular malformations arise as a result of abnormal embryonic development. These malformations are generally subdivided into slow-flow lesions (capillary malformation, lymphatic malformation and venous malformation) and fast-flow lesions (arterial malformations as aneurysm and arteriovenous malformation).

We report a young patient with a large venous malformation (VM) involving the tongue. She came to the outpatient department for routine cleaning of teeth, when we noticed a solitary, large reddish purple-coloured lesion involving the anterior portion of the tongue. The patient gave the history of its presence since birth, associated with no pain and no significant complaints while masticating or swallowing. Patient had noticed no regression in its size. On inspection, the anterior dorsum showed an enlarged mass, most of it showing a normal colour, but enlarged papillae and some dispersed purplish strawberry marks probably of erythema (figure 1). The ventral surface of the tongue showed a large globular submucosal reddish purple mass, involving almost the entire anterior portion of tongue, with a few intense purplish areas (figure 2). Anterior portion showed scalloped margins because of indentations of the teeth. Palpation revealed a soft, painless submucosal mass, which was compressible, non-pulsatile and non-tender. Diascopy led to the disappearance of the intense purplish colour. No calcifications or audible bruit was evident.

An ultrasound and Doppler study were done to rule out the involvement of fast-flow lesions.

There are various modalities available to treat VMs, such as using CO2 or Nd: YAG laser, surgical resection, chemotherapeutic stabilisation of lesions and sclerotherapy.

Figure 1 Dorsum of tongue.

Figure 2 Ventral surface of the tongue.

Learning points
► Cavernous haemangioma (benign tumour/hamartoma) and venous malformations (vascular malformation) are different entities.
► Venous malformations may be associated with Blue rubber bleb nevus syndrome or Maffucci syndrome (check for other signs and symptoms).
► Venous malformations do not undergo spontaneous resolution, and will require treatment. Sclerotherapy (intralungal injection of a sclerosing agent such as Sotradecol) is the most common form of treatment.

Competing interests None.
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REFERENCES