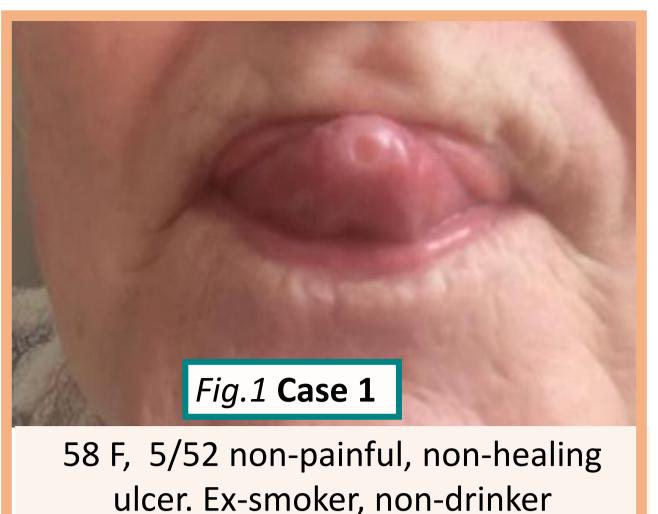
TUGSE Case Series:

An ulceration differential known to Oral Surgeons?

Nowak S. (1), Suida I. (2)

(1) Leeds Dental Institute, Leeds Hospitals Teaching Trust, Leeds (2) Pinderfields Hospital, Mid-Yorkshire Teaching Hospitals NHS Trust, Wakefield



ulcer. Ex-smoker, non-drinker Sharp lingual lower incisor



53 F, 4/12 non-healing, non-painful ulcer. Non-smoker, low alcohol intake Sharp lingual cusps of lower molars

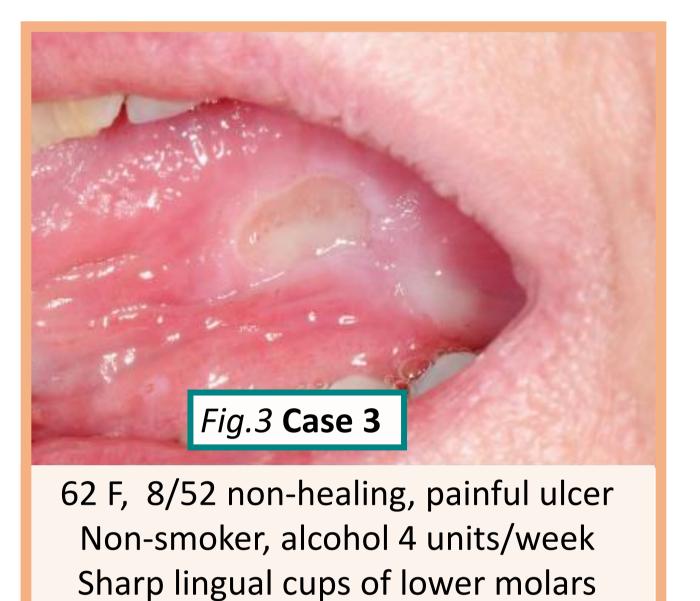


Fig.4 Case 4

47 M, 12/52 painful, non-healing ulcer Ex-smoker (40 cpd), non-drinker No traumatic factors

Case 5

74 F, non-healing, non-painful ulcer right ventral tongue Unknown smoker/alcohol status Sharp lower molar

Case 6

66 F, 10/52 painful, non-healing ulcer tongue Ex-smoker, non-drinker Sharp lower molar

Background

- Traumatic ulcerative granuloma with stromal eosinophilia (TUGSE) is a rare, benign, and self-limiting condition of the oral mucosa.
- Its aetiology is poorly understood; trauma is sometimes implicated (1).
- TUGSE classically presents as:
 - A rapidly developing persistent ulcer with an elevated or indurated border or
 - An ulcer with a peripheral erythema, a white/yellowish base, and a fibrinous membrane.
- Its appearance may mimic infective or neoplastic processes (2).
- Although ulceration may spontaneously resolve, TUGSE heals rapidly following a biopsy (3).
- The histopathological diagnosis is confirmed by the presence of eosinophils, devoid in classic traumatic oral ulcers (4).

Patient Information

- This is a case series of 11 patients referred to Mid-Yorkshire Teaching Hospitals NHS Trust on a Two-Week Wait Pathway on suspicion of malignancy in 2021-2022.
- 8 clinical photographs depict clinical presentation (Fig. 1 - Fig. 8)

	N=	%
Sex	4	36
Female	7	64
Average:	57 years	
Age Range: 3	9 – 74 years	
	k – 2WW 6	
Referral Routine	0	
Other	1	
Duration of Average:	9.4 weeks	
symptoms Range: 1	– 20 weeks	
Tongue	9	<i>82</i>
Buccal m	ucosa 2	18
Traumatic Yes	6	<i>55</i>
factor No	5	45

Table 1. Baseline characteristics

COMPLETE RESOLUTION

73% (n=8)

IMPROVEMENT

18% (n=2)

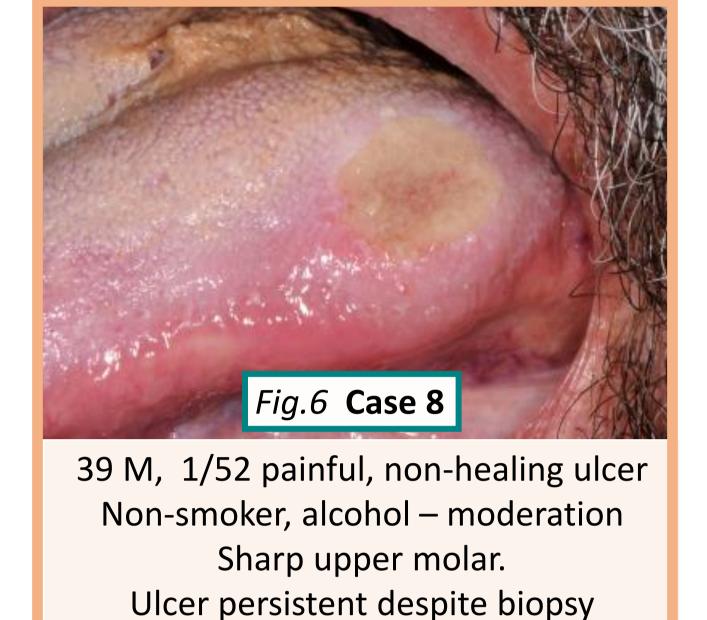
PERSISTENT SYMPTOMS

9% (n=1)

Treated with topical

steroids

Fig.5 **Case 7** 55 M, 4/52 painful, non-healing ulcer. Non-smoker, non-drinker. Sharp lower molar.





66 M, 5/12 painful, non-healing ulcer Ex-smoker, non-drinker

Fig.7 **Case 9**

Sharp lower molar



Case 11

54 F, painful, 6/52, non-healing red/white patch on buccal mucosa Unknown smoker/alcohol status

Acknowledgements:

Thanks to Dr Rebbeca West, Pathologist at Mid-Yorkshire Teaching Hospitals NHS Trust for provision of histopathological slides.

Contact: Sylwia.Nowak@nhs.net

Management & Outcomes

- Sharp or fractured teeth identified as source of trauma were smoothened or extracted.
- Removal of traumatic cause prior biopsy did not lead to ulcer resolution warranting an urgent biopsy.
- All patients underwent a diagnostic biopsy.
- Histopathological evaluation confirmed diagnosis of TUGSE (Fig. 9)

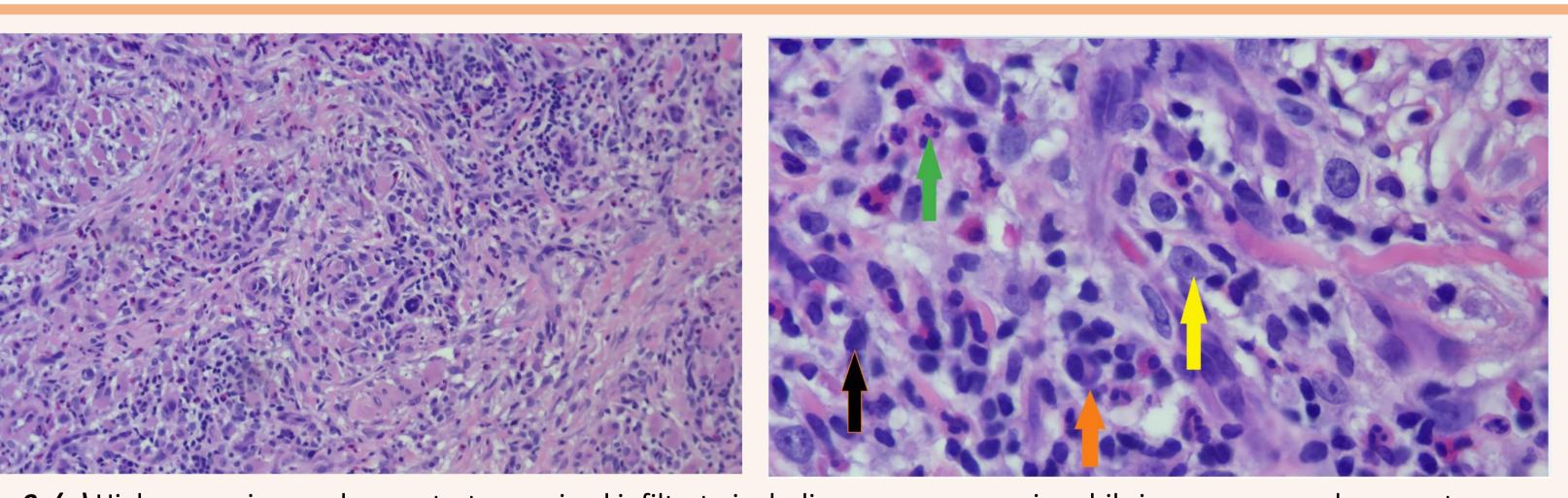


Fig. 9. (a) High power image demonstrates a mixed infiltrate including numerous eosinophils is seen among degenerate skeletal muscle fibres (b) Higher power highlights mixed cellularity infiltrate contains a mixture of eosinophils (Black arrow), neutrophils (Green arrow), histocytes (Yellow arrow), plasma cells (Orange arrow) and lymphocytes.

Key Learning Points:

1 Removal of an obvious traumatic cause may not always lead to ulcer resolution.

2. Malignancy should always be considered as a differential diagnosis in cases of longstanding ulcers, warranting an urgent investigation.

3. TUGSE, although a neoplastic process mimicker, has a good prognosis and heals rapidly following a biopsy, unequivocally confirming the diagnosis.

4. Oral Surgeons should be aware of TUGSE as a rare clinical entity.

NHS

NHS Trust

Mid Yorkshire Teaching

(4) Sarangarajan, R., Vaishnavi Vedam, V. K., Sivadas, G., Sarangarajan, A., & Meera, S. (2015). Traumatic ulcerative granuloma with stromal