

原文題目(出處)：	Case report of necrotizing sialometaplasia. Med Oral Patol Oral Cir Bucal 2011;16:e700-3.
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報告日期：	2011/12/05

內文：

1. Introduction

1. Necrotizing sialometaplasia (NS)-1973 by Abrams et al.:an inflammatory necrotizing reactive process affecting minor salivary glands of the hard palate.
2. Proposing histopathological criteria:
 - (1) **Necrosis of acinary cells** of seromucinous glands
 - (2) **Squamous metaplasia** of **salivary ductal** epithelial and acini
 - (3) **Pseudoepitheliomatous hyperplasia** of the epithelium lining the gland
 - (4) Mucous release
 - (5) **Inflammatory response** associated with granulation tissue in or around the glands
 - (6) **Intact lobular architecture**
3. Modified by Brannon (1991)- **necrosis of acini** in early lesions and of **squamous metaplasia** and reactive fibrosis in later lesions.
4. Anneroth, Hansen and Imbery, Edwards described five histological stages of NS: infarction (necrosis), sequestration, ulceration, repair and healing.
5. NS is an uncommon, **benign** and self-limiting reactive inflammatory process involving minor and major salivary glands.
 - (1) **All sites with salivary tissue** .Most:**hard palate** (58%)
 - (2) Mainly a deep **crateriform ulcer** with indurated and **well-defined edges**. Less often, as a non-ulcerated mass
 - (3) Generally **unilateral**(12% bilateral)
 - (4) **Bone involvement** in only a few cases.
 - (5) Painful or asymptomatic, while some patients present with fever, malaise or paraesthesia/anaesthesia of the area .
 - (6) Most in **Caucasian males** aged between 40 and 50 years.
6. Etiology is uncertain, but an underlying cause appears to be **gland tissue ischemia**. Numerous risk factors including:
 - (1) **Local trauma**(e.g., surgery, poor-fitting prostheses)
 - (2) Fellatio or local pressure
 - (3) Alcohol, tobacco or cocaine use

- (4) Radiation
 - (5) **Respiratory infections or allergies**
 - (6) Previous adenoidectomy or surgery for other lesions (e.g., tumors, mucocoeles)
 - (7) Adjacent tumors or other lesions producing compression and ischemia
 - (8) Bulimia and chronic vomiting
 - (9) Diabetes
 - (10) Drepanocytic anaemia,
7. **Local dental anaesthesia** to the hard palate is thought to play a role in NS (1996, Shigematsu et al.)
 8. Management of these lesions:
 - (1) An **incisional biopsy** and close **follow-up**
 - (2) Administering **analgesics** in cases of pain.
 - (3) Usually no recurrences or sequelae.
 - (4) NS lesions heal without treatment within **4-10 weeks**
 - (5) The healing time is primarily related to the **size of the lesions**
 9. The severity of the ulceration and tissue destruction over a short time period:
 - (1) Frequently misdiagnosed as **mucoepidermoid carcinoma, squamous cell carcinoma**
 - (2) **Incisional biopsy** is therefore essential to establish a correct diagnosis

II. **Case Report**

1. A 21-year-old woman, smoker of 10 cigarettes/day,
 - (1) With a one-week history of bilateral palatal swellings that had developed into two deep ulcers after the first three days.
 - (2) The swellings had been painful and her temperature had risen to 38°C during the initial three-day period
 - (3) But both the pain and fever disappeared with the appearance of the ulcers.
2. Clinical examination
 - (1) Two deep ulcers (3x1 cm and 2x1 cm), one on either side of the midline of the hard palate (Fig. 1).
 - (2) The edges of the lesions were elevated but not indurated,
 - (3) The base was covered with necrotic debris.
 - (4) No pain, and no abnormalities were observed in the rest of the oral cavity.
 - (5) Haematological and radiographic findings were normal.
3. An incisional biopsy of the peripheral margin was taken under local anaesthesia.
 - (1) Mucosa composed of parakeratotic, stratified squamous epithelium.
 - (2) Submucosa contained numerous degenerating mucus-producing salivary glands with mucus spillage.

- (3) Some areas showed extensive necrosis of glandular acini and squamous ductal metaplasia (Fig. 2).
- (4) The connective tissue was infiltrated by a mixed inflammatory infiltrate.
4. The ulcers resolved spontaneously without treatment over the following 8 weeks (Fig. 3).

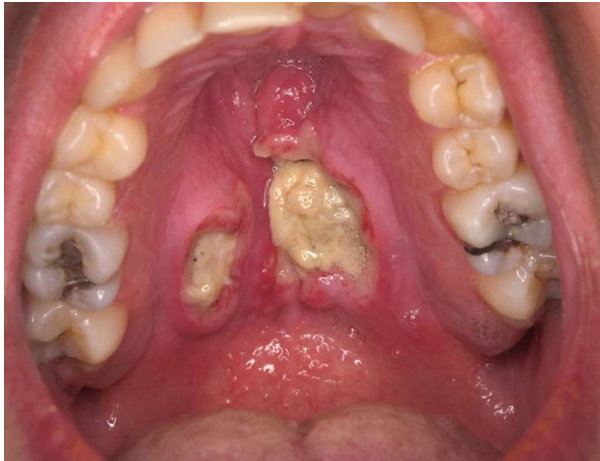


Fig. 1. Palatal ulcers at presentation.



Fig. 3. Lesions resolved at 8 weeks from the onset.

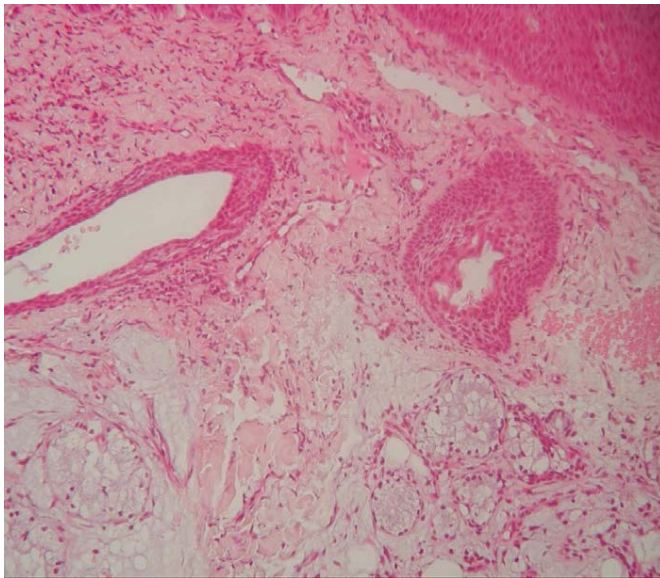


Fig. 2. Necrosis of acini and acute inflammatory infiltrate (HE 200x).

III. Discussion

1. D.D. of NS should consider other ulcerous and erosive lesions:

- (1) Dental fissures,
- (2) Major aphthae,
- (3) Tuberculosis,
- (4) Tertiary syphilis
- (5) Deep fungal infection in patients with AIDS
- (6) Under immunosuppressive treatment
- (7) Cancerous origin, e.g., **squamous cell carcinoma, mucoepidermoid carcinoma.**

2. NS is differentiated from tuberculosis, syphilis and fungal ulcers by:
 - (1) Serologic tests
 - (2) Staining histopathological samples
3. Histological criteria to distinguish NS from a malignancy are:
 - (1) Preserved **general lobular morphology**
 - (2) Bland appearance of **squamous islands** or nests with no cytological evidence of malignancy
 - (3) No findings of residual **ductal lumina** in any nest. .
4. Rizkalla and Toner: Expression of **calponin**, **smooth muscle actin** and focal staining with **cytokeratin 7** are characteristic of NS but not normally expressed in carcinomas.
5. The possibility of a subacute necrotizing sialadenitis should also be taken into account. According to Fowler et al.:
 - (1) A non-specific **acute inflammatory** condition of unknown origin,
 - (2) Histologically characteristic: Focal **acinar necrosis** and **atrophy of duct cells**, **without ductal metaplasia**, pseudoepitheliomatous hyperplasia or fibrosis.
 - (3) **Non-ulcerated** erythematous nodular lesions on the palate accompanied by acute pain and has been reported in **young people** living in groups.
 - (4) Usually last for around two weeks and it has been suggested that the aetiology may be **infectious (viral) or allergic**.

題號	題目
1	Numerous risk factors of necrotizing sialometaplasia excluding? (A) Upper Respiratory Infections (B) Ill-fitting dentures (C) Previous surgery (D) Virus infection
答案(D)	出處：Oral & Maxillofacial Pathology second ED P.405
題號	題目
2	The microscopic appearance of necrotizing sialometaplasia is characterized by ? (A) Acinar necrosis (B) Acinar metaplasia (C) Ductal squamous necrosis (D) Lobular architecture loss
答案(A)	出處：Oral & Maxillofacial Pathology second ED P.406