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內文:

Aim:

To present the management of a patient with pernicious anemia afflicted with recurrent aphthous stomatitis (RAS)

Introduction:

- RAS is an inflammatory ulcerative condition of the oral mucosa characterized by painful and recurrent ulcers
- One of the most common oral diseases worldwide
- Up to 25% of the general population
- Fifty percentage three-month recurrence rates
- Clinical features --- minor, major, and herpetiform

Minor RAS: round, clearly defined, small, painful ulcers

heal in 10 to 14 days

without scarring

Major RAS (Sutton's disease): the lesions are larger (>1.0 cm)

last for six weeks

frequently scar

Herpetiform RAS: multiple clusters of pinpoint lesions

last seven to ten days

coalesce to form large irregular ulcers

Contributing factors:

Local trauma, Smoking, Stress, Hormonal status, Genetics, Hematinic deficiencies (iron, folic acid, vitamins B2, B3, B6, B12, and C), Immunological factors, Microorganisms, Systemic diseases

- Imerslun-Grabeck syndrome (Broides et al.) had a vitamin B12 deficiency associated with a neutrophil chemotactic defect → may cause RAS
- Pernicious anemia: vitamin B12 malabsorption induced by chronic gastritis

- The relation between deficiency of vitamin B12 and RAS have been rarely reported in the literature
 - * RAS and concluded deficiency of vitamin B12

Wray et al.--- 3.8%

Piskin et al.--- 22.8%

Koybasi et al. --- 35.2%

Burgan et al.--- 26.6%

Case Report:

Diagnosis

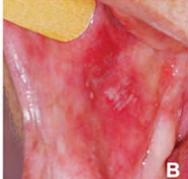
A 71-year-old-woman

■ C.C.

Painful recurrent oral ulcers evolving over the past three years

- **■** P.E.:
 - Multiple ulcers covered with a grayish pseudomenbrane surrounded by an erythematous margin located in the tongue and in the buccal mucosa
 - Depapilation of the tongue and erythemathous buccal mucosa







• Laboratory tests

folic acid, iron, ferritin, vitamins B2, B6, and B12 levels, serum hemoglobin, and medium corpuscular volume(MCV) low serum vitamin B12 (133 pg/ml)

low serum hemoglobin (3,670,000/mm³) along with a MCV of 104.1 fl

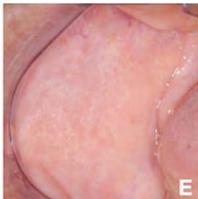
- Gastroduodenoscopy: no macroscopic abnormality
- Gastric biopsy: mucosal atrophy in the gastric corpus with evidence of intestinal metaplasia
- *Helicobacter pylori* detection (-)
- → Diagnosis : pernicious anemia along with RAS caused by malabsorption of

vitamin B12

■ Treatment

- Administration of 1.0 ml of hydroxocolabamin IM twice weekly over four weeks followed by 1.0 ml once weekly for four weeks
- Clinical resolution of the RAS and the tongue depapilation and buccal mucosa was apparent after two months







At 12 months: free of the RAS
normal levels of hemoglobin, MCV, and vitamin B12,
continued with IM administration of vitamin B12 and 2 ml of
hydroxocolabamin for 60 more days

Discussion

- No principal cause has been discovered to date
- The clinical features along with the patient response to the management of the case reported here supported a diagnosis of RAS related to vitamin B12 malabsorption
- The deficiency of vitamin B12 is frequently associated with glossitis but not generally thought to induce RAS
- The precise role of vitamin B12 deficiency in the pathogenesis of RAS is unclear, the suppression of cell-mediated immunity and changes in the cells of the tongue and oral mucosa have been described
- Hematinic deficiency is twice as common in RAS patients than in controls (Studies from the United Kingdom, United States, and Spain)
- The patient was 71 years old, which is not common
- The patient also presented with erythemathous mucosa and depapilation of the tongue which are characteristic symptoms of other problems

- Patients with RAS generally do not require treatment
- It is important to determine possible hematinic deficiencies or allergies in order to provide appropriate therapies
- Weusten and Van de Wie reported the similar treatment modality

Summary & Clinical Significance

- The association of RAS with vitamin B12 malabsorption is a rare event
- Evaluation of the predisposing factors is imperative in treating patients with RAS including vitamin B12 malabsorption
- Determination of the levels of vitamin B12 should be the basis for replacement therapy.
- Clinicians must alert to the possibility this lesion could be a signal of systemic disease

systemic disease		
題號	題目	
1	下列有關 minor RAS (recurrent aphthous stomatitis)的敘述,何者為非?	
	(A) 又名 Sutton's disease	
	(B) 10~14 天癒合	
	(C) 通常沒有 scar	
	(D) Size 小於 1 cm	
答案	出處: J Contemp Dent Pract 2009 January; (10)2:083-089	
(A)	A: 為 major RAS	
題號	題目	
2	復發性口腔炎(recurrent aphthous stomatitis, RAS)與單純疱疹病毒	
	(Herpex simplex virus, HSV)常需鑑別診斷,下列何者為非?	
	(A) HSV 則多在非角化黏膜, RAS 多出現在角化黏膜	
	(B) HSV 有水泡病灶, RAS 則無	
	(C) HSV 多成群小潰瘍, RAS 潰瘍較大且型態多變	
	(D) HSV 疼痛感較輕, RAS 疼痛較明顯	
答案	出處: <u>http://www.tafm.org.tw/Data/011/395/2290101.pdf</u>	
(A)	A: RAS 則多在非角化黏膜,HSV 多出現在角化黏膜	