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原文題目(出處):	Uncommon synchronous histopathological features of a
	radicular cyst: a case report. Cases Journal 2009;2:9067
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報告日期:	98/12/07

內文:

Introduction

- the most common inflammatory odontogenic cystic lesions
- commonly found at root apices of involved teeth or lateral to the root
- nearly 2/3 of reported cases \rightarrow 40,50 y/o males
- >1/2 of reported cases → Maxillary anterior segment
- (1) small ∶ asymptomatic
 - (2) large : cause swelling and bony expansion→painful
- X-ray: round or ovoid RL area surrounded by a narrow RO margin
- Actinomyces is the most commonly occurring organism
- to protect vitality of the tooth, reactionary dentin may induce production of calcified tissues →blockage of the root canal →difficult Endo. Procedures

Histopathogically :

- (1) the cyst is thin with smooth or corrugated inner surface
- (2) epithelial lining: stratified squamous, 10% with Rushton's hyaline bodies
- (3) fibrous capsule: composed mainly of condensed parallel bundles of collagen fibres peripherally and a loose connective tissue adjacent to epithelial lining
- (4) Other: satellite microcysts, calcifications, mast cells and remnants of odontogenic epithelium
- ♦ The process of haem catabolism, the presence of hemosiderin and lipid-laden macrophages or foam cells have described in atherosclerotic p't suffering from

ischaemic heart disease, but not been evaluated in radicular cyst lamina propria.

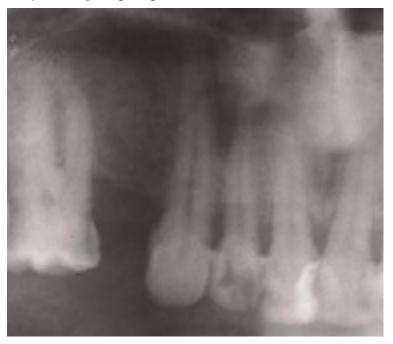
Case presentation

♦ General Data: a 38 y/o Mediterranean female

♦ C.C.: throbbing R't Maxillary pain

 \Diamond **O.E.** : (1) oral fistula in the tooth 12 area

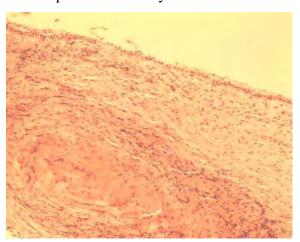
(2) tooth 12: severely decayed; tender to percussion



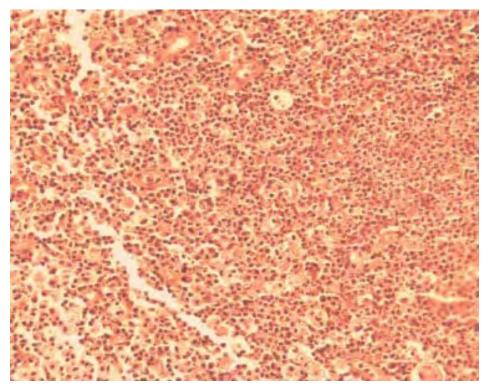
- ♦ Surgical extraction and enucleation (under LA)
 - The cyst measured 6mm in diameter
 - buffered formalin, EDTA, cut the specimen into 5μm, H&E stain

♦ Histopathologically :

- atrophic non-keratinized stratified squamous epithelium
- in the lamina propria, an oval fibrotic island was observed, surrounded by multiple inflammatory cells



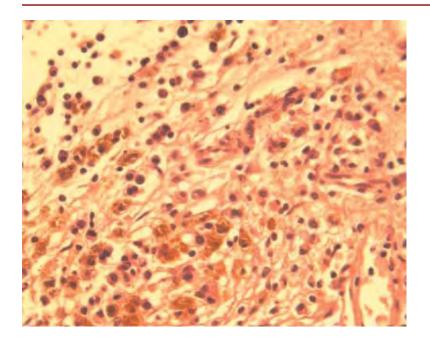
— in other areas: lipid-laden macrophages / foam cells



dystrophic calcification into the canal →excessive formation of reactionary
dentin → apical part was obstructed



 topical hemosiderin pigmentation of the chorium expressed the catabolism of hemoglobin structure due to micro-hemorrhages



Discussion

- ♦ Radicular cysts are common osseo-destructive jaw lesions.
- Uncommon microscopical features include subepithelial fibrosis, topical hemosiderosis and lipid-laden macrophages in association with a root canal dystrophic calcification.
- ◇ Root canal dystrophic calcification may cause obliteration of the root canal apex. → difficult to treat by conventional methods (ex. : endo tx.) → surgical excision
- The phagocytosis of the lipid debris induces microscopic expansion of the macrophages → lipid-laden macrophages or foam cells
- ♦ Another form of chronic irritability may be identified by the presence of subepithelial fibrosis. This appears as scar tissue formation.
- ♦ Other rare forms: hemosiderin pigmentation → indicate the presence of many micro-hemorrhages in the lamina propria
- ♦ This case report described the association of pulp dystrophic calcification with subepithelial fibrosis, lipid laden macrophages and hemosiderin pigments on the chorium of a radicular cyst.

Conclusion

the synchronous existence of these features in a radicular cyst may indicate the
development of chronic irritation in periodontal tissues by the root canal
microbial proliferation.

題號	題目	
1	關於 radicular cyst,下列何者為非?	
	(A) Patients with radicular cyst have no symptoms unless there is an	
	acute inflammatory exacerbation.	
	(B) The source of epithelium is usually a rest of Malassez.	
	(C) Neither the size nor the shape of the lesion can be considered a	
	definitive diagnostic criterion.	
	(D) It will be healed after removal of the problematic tooth.	
答案	出處: Oral & Maxillofacial pathology P.116	
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題號	題目	
2	在顯微鏡下觀察 radicular cyst,下列何者為非?	
	(A) The cyst is lined by stratified squamous epithelium.	
	(B) The lumen will be filled with fluid and cellular debris.	
	(C) On occasion, the lining epithelium may demonstrate linear or	
	arch-shaped calcifications known as Rushton bodies.	
	(D) The wall of the cyst consists of loose fibrous connective tissue.	
答案	出處: Oral & Maxillofacial pathology P.119	
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