

口腔病理診斷科 Case Report

日期：96/03/27

指導醫師：口腔病理診斷科全體醫師

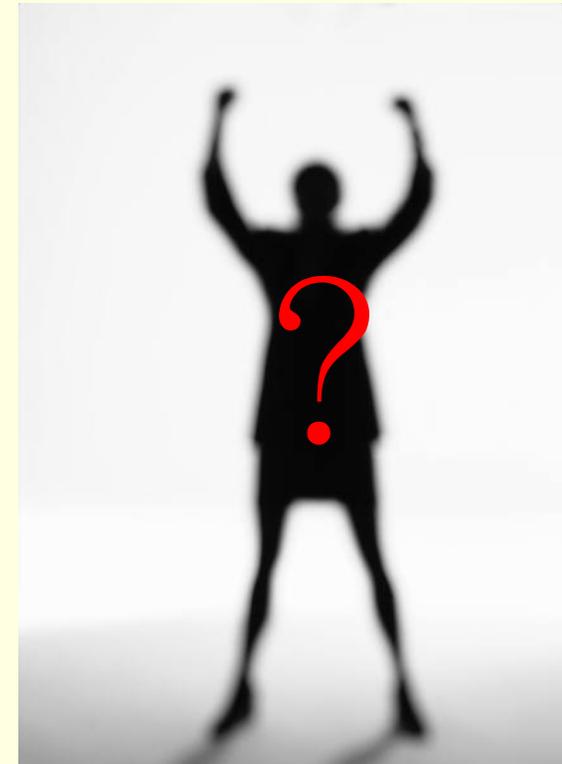
報告者：Intern-L組

黃英瑋 黃柏青 黃宏興
顏宜貞 張令怡

Personal data

Personal data
Chief complaint
Present illness
Past medical history
Past dental history
Oral finding
X-ray finding

- Name: 楊X X
- Sex: Male
- Age: 24
- Occupation: Student
- First visit: 96/03/08
- Attending VS: Dr. 賴聖宗



Chief complaint

Personal data

Chief complaint

Present illness

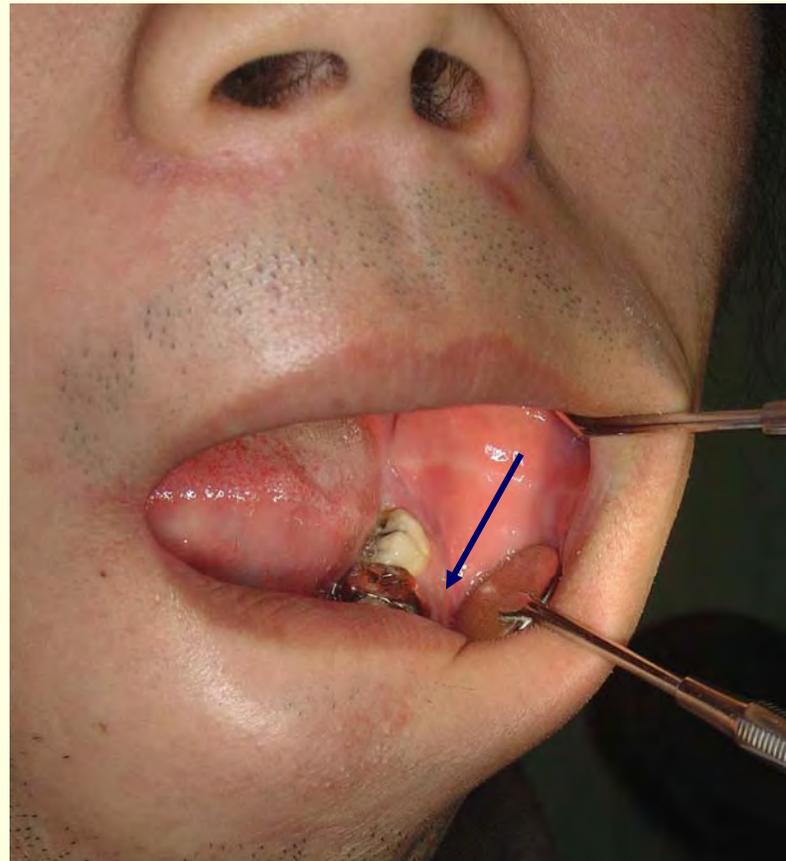
Past medical history

Past dental history

Oral finding

X-ray finding

- Pain and swelling over lower left posterior area for about 1 year.



Present illness

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- This 24 y/o male suffered from pain and swelling over left mandibular angle for about 1 year.
- Presently, he felt pain with pus discharge when he pressed to left mandibular angle area.
- Therefore, he went to LDC for help on 96/03/04.
- The dentist took X-ray of teeth 35, 36, 37, and found that there was a radiolucent lesion over the distal apex of tooth 37.
- Then the dentist suggested him to our OPD for further treatment.

Past medical history

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- Arrhythmia
- Pneumothorax
- Acute gastritis
- Hospitalization: (+)
- Denied any food or drug allergy.

Past dental history

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- Scaling
- O.D. 、 Endo. Treatment
- Extraction
- Prosthesis fabrication.
- Personal habit:
 - Alcohol: (+) 1/4 bottle per day
 - Betel quid: (-)
 - Cigarette: (+) 5 years, quit for ½ year
 - Denied any specific oral habit.

Oral finding

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- Extra-oral finding
 - Swelling over left cheek.
- Intra-oral finding
 - Gingival swelling and pus discharge from distal side of tooth 37.
 - EPT: unknown
 - Percussion: unknown
 - Mobility: unknown



Oral finding

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■ Intra-oral finding

- Caries: tooth 27 、 28 、 36 、 37
- Missing: tooth 46
- Restoration: tooth 17 、 27 、 37 、 48
- Prosthesis: tooth 11 、 16 、 21 、 25 、
36 、 45×47

X-ray finding

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There is a well-defined, multilocular bubble-shaped radiolucency around submerged tooth 38 with corticated margin over left posterior mandible extending from condylar neck down to lower border of mandible and from distal apex of tooth 34 to posterior border of ramus, measuring approximately 9 × 9 cm in diameter.

X-ray finding

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X-ray finding



The lesion resulting in vertical bony expansion with cortical border thinning pressed the tooth 38 down to mandibular angle. The images of left mandibular canal and mental foramen were unclear, and root resorption of tooth 36、37 was noted.

X-ray finding

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Sinus: unremarkable
Caries : tooth 27 、 28 、 36 、 37
Endodontic condition: Endo. treatment: tooth 11 、 21
Incomplete Endo. treatment: tooth 16 、 36
Condyl: left condyl head was flattened

X-ray finding

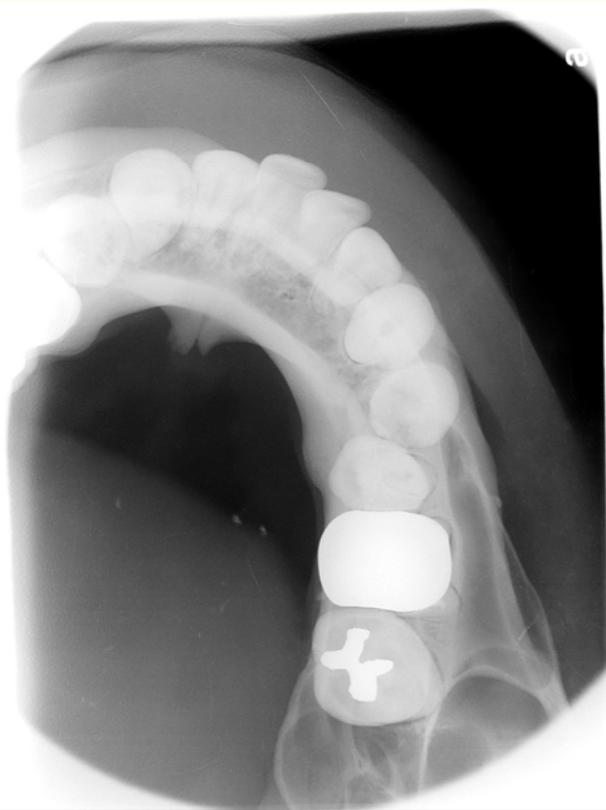
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Oral finding
X-ray finding



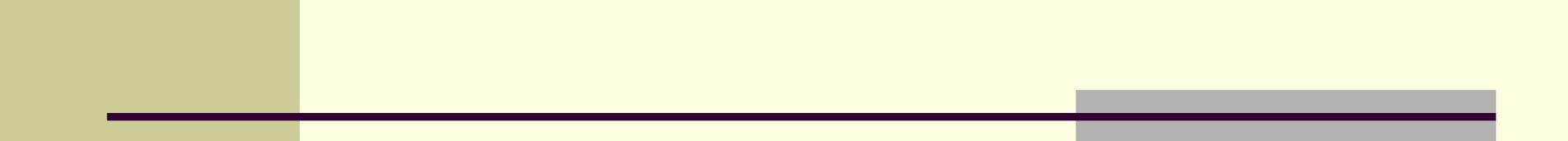
Missing : tooth 46 Mesial tilting : tooth 47 、 48
Restoration (e.g. C & B): tooth 11 、 16 、 21 、 25 、 36 、 45x47
Filling (e.g. amalgam): tooth 17 、 27 、 37 、 48
Submergence : tooth 38

X-ray finding

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X-ray finding



Occlusal film:
There is a well-defined , multilocular bubble-shaped radiolucency extending since distal side of tooth 34.
The obviously B-L bony expansion over left posterior mandible was noted.



Differential diagnosis



Differential diagnosis

Cyst or neoplasm

Benign

Intra-bony origin

Working Diagnosis

Odontogenic keratosis cyst

Amelablastic fibroma

Amelablastoma

Odontogenic myxoma

- Inflammation, Cyst, or Neoplasm?
 - Fever or local heat (-)
 - Fluctuation (?)
 - Pus (+)
 - Destruction of mandible with bony expansion.

Cyst or Neoplasm

Differential diagnosis

Cyst or neoplasm
Benign
Intra-bony origin
Working Diagnosis
Odontogenic keratosis cyst
Amelablastic fibroma
Amelablastoma
Odontogenic myxoma

- Benign or Malignant ?
 - Pain (+)
 - Tenderness (+)
 - Ulceration (-)
 - Numbness (-)
 - Slow growing (+)
 - Well-defined radiolucency

Benign

Differential diagnosis

Cyst or neoplasm
Benign
Intra-bony origin
Working Diagnosis
Odontogenic keratosis cyst
Amelablastic fibroma
Amelablastoma
Odontogenic myxoma

- Peripheral, Intra-bony origin?
 - Mucosal lesion (-)
 - Induration (-)
 - Bony destruction (+)
 - Bony expansion (+)

Intra-bony origin

Working Diagnosis

Cyst or neoplasm
Benign
Intra-bony origin
Working Diagnosis
Odontogenic keratosis cyst
Amelablastic fibroma
Amelablastoma
Odontogenic myxoma

- Odontogenic keratocyst
- Amelablastic fibroma
- Amelablastoma
- Odontogenic myxoma

Odontogenic keratosis cyst

Cyst or neoplasm		Odontogenic keratocyst	This case	
Benign				
Intra-bony origin	Age, sex	10~40 y/o slight male	24 y/o male	✓
Working Diagnosis	X-ray	Well-defined multilocular R-L	Well-defined, multilocular R-L	✓
Odontogenic keratosis cyst	Jaw	60~80% in mandible, unerupted tooth	Mandible, unerupted tooth 38	✓
Amelablastic fibroma	Pain	Small: painless Large: pain	Pain	✓
Amelablastoma	Growth	Slowly growing	Slowly growing	✓
Odontogenic myxoma	Swelling	Bony expansion and thinning of cortical plates	B-L cortical expansion	✓
	Effects on tooth	Less root resorption	Tooth 36, 37 root resorption	

Ameloblastic fibroma

Cyst or neoplasm	Ameloblastic fibroma	This case		
Benign				
Intra-bony origin	Age, sex	20 y/o male, occasional middle-age	24 y/o male	✓
Working Diagnosis	X-ray	Unilocular or multilocular RL	well-defined, multilocular R-L	✓
Odontogenic keratosis cyst	Jaw	Posterior mandible, 75% unerupted tooth	Mandible, unerupted tooth 38	✓
Ameloblastic fibroma	Pain	Painless	Pain	
Ameloblastoma	Growth	Slowly growing	Slowly growing	✓
Odontogenic myxoma	Swelling	Bony expansion & facial swelling	B-L cortical expansion	✓
	Effects on tooth	Displacement of the involved teeth	Displacement of Tooth 38	✓

Odontogenic myxoma

Cyst or neoplasm		Odontogenic myxoma	This case	
Benign				
Intra-bony origin	Age, sex	25~35y/o, no sex predilection	24 y/o male	✓
Working Diagnosis	X-ray	Multilocular or Unilocular R-L, honeycomb or tennis-racket pattern.	Well-defined, multilocular R-L, soap-bubble pattern.	
Odontogenic keratosis cyst	Jaw	Any area in mandible	Mandible, unerupted tooth 38	✓
Amelablastic fibroma	Pain	Painless	Pain	
Amelablastoma	Growth	Slowly enlarging	Slowly enlarging	✓
Odontogenic myxoma	Swelling	Expansion of the jaw	B-L cortical expansion	✓
	Effects on tooth	Migration of teeth, root resorption	Tooth 36, 37 root resorption	✓

Impression

- **Infected odontogenic keratocyst** over left posterior mandible.

A bronze sculpture of a man and a child is the central focus in the foreground. The man stands on the left, holding a large, flat, rectangular object above his head. The child stands to his right, looking up at him. The sculpture is mounted on a light-colored stone pedestal. In the background, a lush green park is visible with several trees, a paved path, and a large green field. A blue semi-transparent banner with white text is overlaid across the middle of the image.

Thanks for your attention