Case Report

指導老師:

V.S.: 林立民 陳玉昆醫師 王文岑醫師

Resident: 陳靜怡醫師 謝牧諺醫師

<u>Int</u>:賴彥成 吳美萱 吳筱婷 傅琬茹

日期: 99.03.29

General Data

- Name: 陳建宏
- Gender : Male
- Age : 25
- Occupation : 工人
- Attending V.S.: 陳中和醫師
- First visit: 99. 2. 24



Chief Complaint

Refer from 屏基 for checking mandibular expansion and huge radiolucency over mandibular body of radiographic finding.



Present Illness

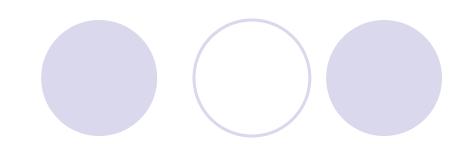
This 25 y/o male suffered from lower facial swelling for half a year. He went to LDC for help, and the doctor suggested him to go to 屏基 for further examination. 屏基 took the X-ray, and a huge radiolucency image was found over mandibular body, then the P't was suggested to our OMS department for consultation and further examination.

Past History

- Past medical history
- □ Drug allergy: denied
- Systemic disease: denied
- □ Herniation (小學時開刀)
- Past dental history
- No record

Risk factors

- Alcohol: (-)
- Betel nut: (-)
- Cigarette: (-)



Intraoral examination

- There are multiple exophytic masses with smooth surface over mandibular buccal and lingual side from tooth 37 to 47
- Buccal plate perforation was noted over anterior mandible
- Tooth mobility: 36 to 46





Radiographic examination



There is a well-defined multilocular, soap bubble appearance radiolucent lesion with a corticated margin over mandibular body extending from distal aspect of tooth 47 to mesial aspect of tooth 37, and from inferior mandibular border up to alveolar crest of 36 to 46, measuring approximately 12.2 X 4.3 cm in diameter. Root resorption of tooth 31,32,33,34,35,36,41,42,43,44,45,46, downward displacement of bilateral inferior alveolar canal, and thinning of cortical plate was noted. Loss of lamina dura over tooth 36 to 47.

Impaction: 18, 28, 38, 48

Sinus: clear

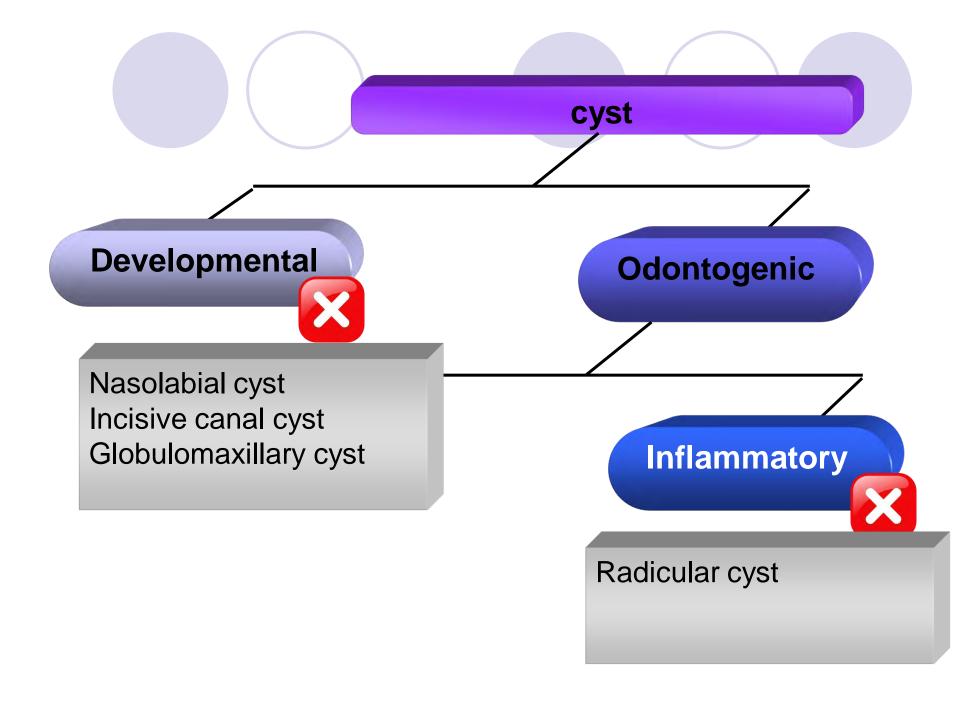
TMJ: Unremarkable

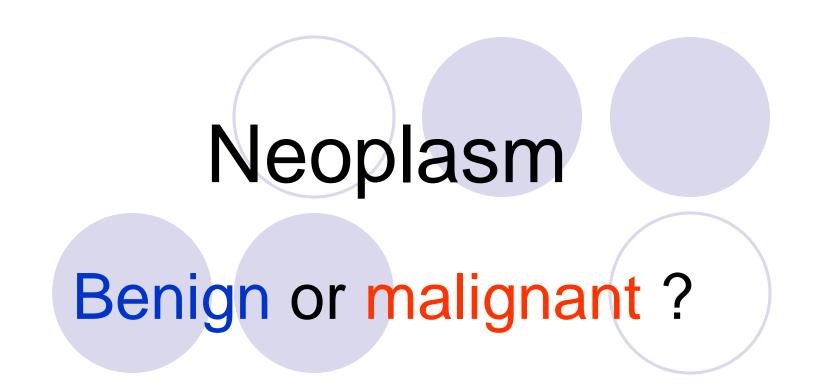


Inflammation? Cyst? Neoplasm? Infection?

Inflammation? Cyst? Neoplasm? Infection?

- □ Fever or local heat (-)
- ■Color: normal
- □ Pain (-)
- ■No purulent drainage was present
- →R/O inflammation & infection
- → Cyst or Neoplasm





- Movable (except palate)
- Unattached to skin or mucosa (except palate)
- No ulceration of skin or mucosa
- Slow growth, Long duration

Benign

- No pain
- 6. No facial nerve palsy
- No bony invasion Features
- well-defined radiolucency with corticated margin
- Induration
 - Malignant Fixed to overlying skin or mucosa
- Ulceration of skin or mucosa
- Rapid growth; growth spurt, Short duration
- Pain, often severe
- Facial nerve palsy
- **Bony invasion**
- ill-defined radiolucency without corticated margin

Peripheral or intrabony origin?

- Adjacent mucosa seems normal appearance
- Induration:(-)
- Fluctuation:(-)
- Consistency: hard
- Mobility: fixed



Intrabony



Odontogenic developmental cyst

Benign intrabony tumor

Differential diagnosis

- Ameloblastoma
- Odontogenic keratocyst
- Glandular odontogenic cyst
- Central giant cell granuloma

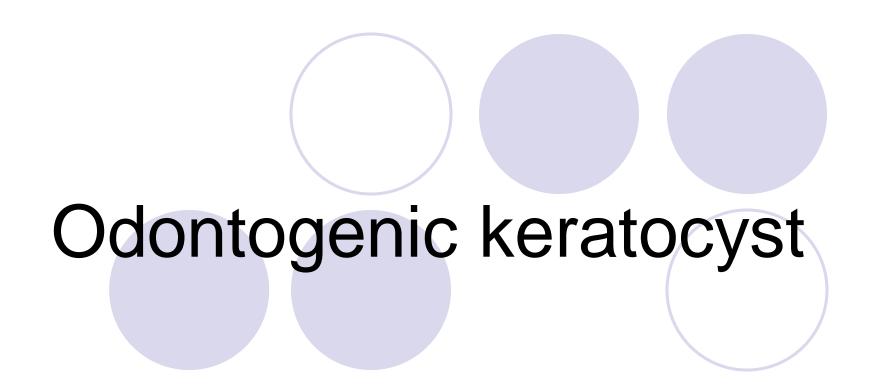


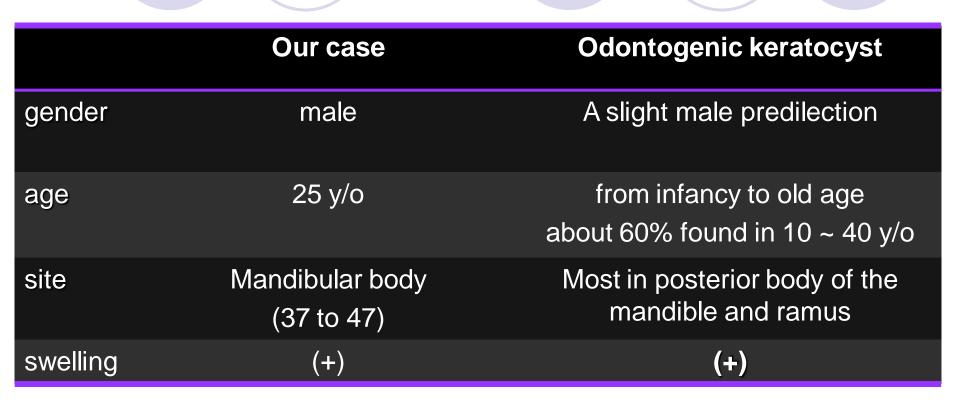
Ameloblastoma

	Our case	Ameloblastoma
gender	male	No sexual predilection
age	25 y/o	rare in younger,30~80 y/o
site	Mandibular body (37 to 47)	in mandible, posterior region
swelling	(+)	(+)

	Our case	Ameloblastoma
consistency	hard	hard
pain	(-)	(-)
tenderness	(-)	(-)
induration	(-)	(-)
LAP	(-)	(-)

X-ray finding	Our case	Ameloblastoma
Border	well-defined cortical boundary	well-defined cortical boundary
Radiodensity	radiolucency	radiolucency
Effect on surrounding structures/adjacent teeth	Bony hard swelling, causing root resorption	Buccal and lingual cortical expansion. Resorption of the roots of teeth. Teeth may be displaced and become mobile.
Unilocular/ multilocular	Multilocular	Multilocular / unilocular



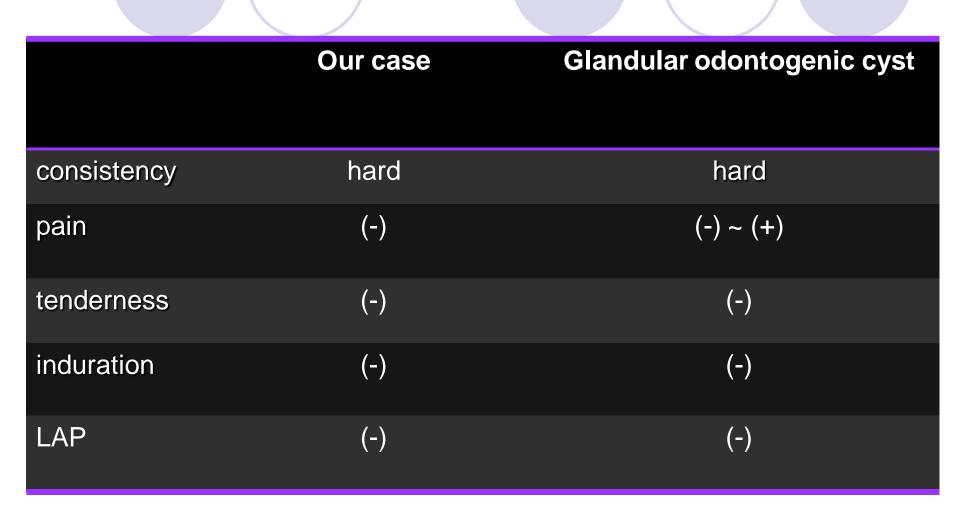


	Our case	Odontogenic keratocyst
consistency	hard	Hard
pain	(-)	(-) / (+) If larger
tenderness	(-)	(-)
induration	(-)	(-)
LAP	(-)	(-)

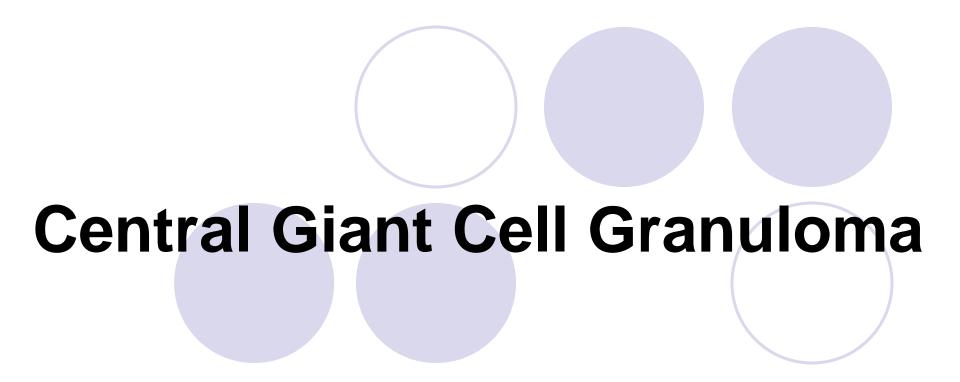
X-ray finding	Our case	Odontogenic keratocyst
Border	well-defined cortical boundary	well-defined cortical boundary
Radiodensity	radiolucency	radiolucency
Effect on surrounding structures/adjacent teeth	Bony hard swelling, causing root resorption	No obvious bone expansion. Occasionally expand and perforate the bone
		Root resorption uncommon
Unilocular/ multilocular	Multilocular	Unilocular / multilocular

Glandular odontogenic cyst

	Our case	Glandular odontogenic cyst
gender	male	no predilection
age	25 y/o	Most in middle-aged adults
site	mandibular body (37 to 47)	anterior region of the jaw (cross the midline)
swelling	(+)	(+)



X-ray finding	Our case	Glandular odontogenic cyst
Border	well-defined cortical boundary	well defined with a sclerotic rim
Radiodensity	radiolucency	radiolucency
Effect on surrounding structures/adjacent teeth	bony hard swelling, causing root resorption	bony hard swelling, root divergence of the involved teeth
Unilocular/ multilocular	multilocular	Multilocular/ unilocular



	Our case	Central giant cell granuloma
gender	male	female
age	25 y/o	2~80 y/o 60% occur before 30 y/o
site	mandibular body (37 to 47)	anterior region of the jaw (cross the midline)
swelling	(+)	(+)



	Our case	Central giant cell granuloma
consistency	hard	hard
pain	(-)	(-) ~ (+)
tenderness	(-)	(-)
induration	(-)	(-)
LAP	(-)	(-)

X-ray finding	Our case	Central giant cell granuloma
Border	well-defined cortical boundary	Well-defined generally without a corticated margin
Radiodensity	radiolucency	radiolucency
Effect on surrounding structures/adjacent teeth	bony hard swelling, causing root resorption	bony hard swelling, perforation of the cortical bone plate, root resorption in aggressive lesion
Unilocular/ multilocular	multilocular	unilocular or multilocular

Conclusion

- 1. Ameloblastoma
- 2. Odontogenic keratocyst
- 3. Glandular odontogenic cyst
- 4. Central giant cell granuloma

Histopathologic report

Microscopically, it is characterized by fragments of thin odontogenic epithelial lining and fibrous connective tissue. The epithelia lining consists of 6 to 8 layered, cuboid cells. The nuclei of the basal layer arrange in palisading appearance. Corrugation and wavy appearance of the lining are also observed. The surface of the lining is hyperkeratotic. Based upon the above findings, it shows odontogenic keratocyst.

Final Impression

 Odontogenic keratocyst, anterior mandible

