

# CASE REPORT

Intern J組

卓逸德

葉育君

顏丞偉

黃靜瑜

指導醫師：

口腔病理診斷科

全體醫師

2011/06/30

# PERSONAL DATA

- Name : 余XX
- Chart No. : 09xxxx31
- Gender : 女
- Age : 47
- Occupation : 家管
- Date of first visit : 100/05/25
- First visit V.S. : Dr. 陳中和

# CHIEF COMPLAINT

- Referred from LDC due to intrabony cyst-like lesion over right mandibular body

# PRESENT ILLNESS

- This 47 y/o female visited LDC for pain over R't mandibular area and received panoramic examination finding an intrabony cyst-like lesion on 100.05.23. Therefore, the dentist suggested the patient to come to our OPD for further examination and treatment.

# PAST MEDICAL HISTORY

- Systemic disease : denied
- Drug / food allergy : denied
- Hospitalization : denied

# PAST DENTAL HISTORY

- Routine dental care

# PERSONAL HABITS

- Alcohol drinking : nil
- Betel nut chewing : nil
- Cigarette smoking : nil
- Denied other specific habits

# INTRA-ORAL EXAMINATION

- Size : 2.5x1.5 cm in max. diameter
- Surface : smooth
- Shape : dome
- Color : normal mucosa
- Consistency : hard
- Pain : (+)
- Tenderness : (+)
- Induration : unknown
- Fluctuation : (-)
- Lymphadenopathy : (-) , non-mentioned particular LN
- Missing : tooth 46, 47





# PANORAMIC EXAMINATION



- There is a well-defined multilocular radiolucency with a sclerotic margin over R't posterior mandibular body, extending from distal aspect of tooth 45 to anterior aspect of R't mandibular ramus and from R't mandibular alveolar ridge down to the inferior border of R't mandibular body, downward displacing and destroying the superior border of R't mandibular canal, measuring approximately  $3.5 \times 3$  cm in diameter. This lesion causes external root resorption of tooth 45, crown & root resorption and displacement of tooth 48.

# RADIOGRAPHIC EXAMINATION



- Peg tooth : tooth 12
- Rotation : tooth 22
- Attrition : teeth 23, 41
- Embedded : tooth 18
- Impaction : tooth 38
- Missing : tooth 28, 46, 47
- Dental midline - lower shift to R't side 2 mm

# DIAGNOSTIC SEQUENCE

# INFLAMMATION? INFECTION? NEOPLASM & CYST?

	Our case	Inflammation	Infection	Neoplasm	Cyst
<b>Color</b>	Normal	Red	Red	Variable	Normal
<b>Fever or local heat</b>	-	+	+	-	-
<b>Pain</b>	+	+	+	+/-	+/-
<b>Consistency</b>	Hard	Rubbery	Firm	Variable	Soft
<b>Fluctuation</b>	-	-	-	Variable	+/-
<b>Discharge</b>	-	+	+	+/-	-
<b>Ulceration</b>	-	-	-	+/-	-

# MALIGNANT? BENIGN?

	<b>Our case</b>	<b>Benign</b>	<b>Malignant</b>
<b>X-ray margin</b>	Well-defined	Well-defined	Poor-defined
<b>Mobility</b>	Fixed	Fixed	Fixed
<b>LAP</b>	-	-	+

# WORKING DIAGNOSIS

- Neoplasm
  - Odontogenic
    - Conventional solid ameloblastoma
    - Odontogenic myxoma
  - Nonodontogenic
    - Central giant cell granuloma
    - Intrabony vascular malformation
- Cyst
  - Odontogenic keratocyst (Keratocystic odontogenic tumor)

# CONVENTIONAL SOLID AMELOBLASTOMA



**Our case**



**Conventional solid  
ameloblastoma**

# CLINICAL COMPARISON

	<b>Our case</b>	<b>Conventional solid ameloblastoma</b>
<b>Age</b>	47 y/o	30 ~ 70 y/o
<b>Gender</b>	Female	Not significant
<b>Site</b>	R't posterior mandibular body	80~85% occur in the mandibular molar ascending area
<b>Size</b>	3.5 x 3.0 cm	Non-mentioned
<b>Duration</b>	Unknown	Slow-growing
<b>Base</b>	Sessile	Sessile
<b>Color</b>	Normal mucosa	Normal mucosa
<b>Shape</b>	Dome	Non-mentioned
<b>Surface</b>	Smooth	Smooth
<b>Consistency</b>	Hard	Bony hard
<b>Pain</b>	+	-
<b>Tenderness</b>	+	-
<b>Mobility</b>	Fixed	Fixed
<b>Induration</b>	Unknown	Non-mentioned



# X-RAY FINDING COMPARISON



<b>Radiodensity</b>	Well-defined multilocular, soap bubble radiolucency	Well-defined uni/multilocular with honeycombed or soap bubble radiolucency
<b>Margin</b>	Corticated margin	Corticated margin
<b>Effects on Surrounding structures</b>	Downward displacing mandibular canal and crown & root resorption and displacement of tooth 48	Root resorption and tooth displacement

# ODONTOGENIC MYXOMA



**Our case**



**Odontogenic myxoma**

# COMPARISON

	<b>Our case</b>	<b>Odontogenic myxoma</b>
<b>Age</b>	47 y/o	Average 25 to 30 y/o
<b>Gender</b>	Female	Non significant
<b>Site</b>	R't posterior mandibular body	<b>Any area of the mandible</b>
<b>Size</b>	3.5 x 3.0 cm	Non-mentioned
<b>Duration</b>	Unknown	Slow-growing
<b>Base</b>	Sessile	<b>Sessile</b>
<b>Color</b>	Normal mucosa	<b>Normal mucosa</b>
<b>Shape</b>	Dome	<b>Dome</b>
<b>Surface</b>	Smooth	<b>Smooth</b>
<b>Consistency</b>	Hard	<b>Gelatinous</b>
<b>Pain</b>	+	-
<b>Tenderness</b>	+	-
<b>Mobility</b>	Fixed	Non-mentioned
<b>Induration</b>	Unknown	Now-mentioned

# X-RAY FINDING COMPARISON

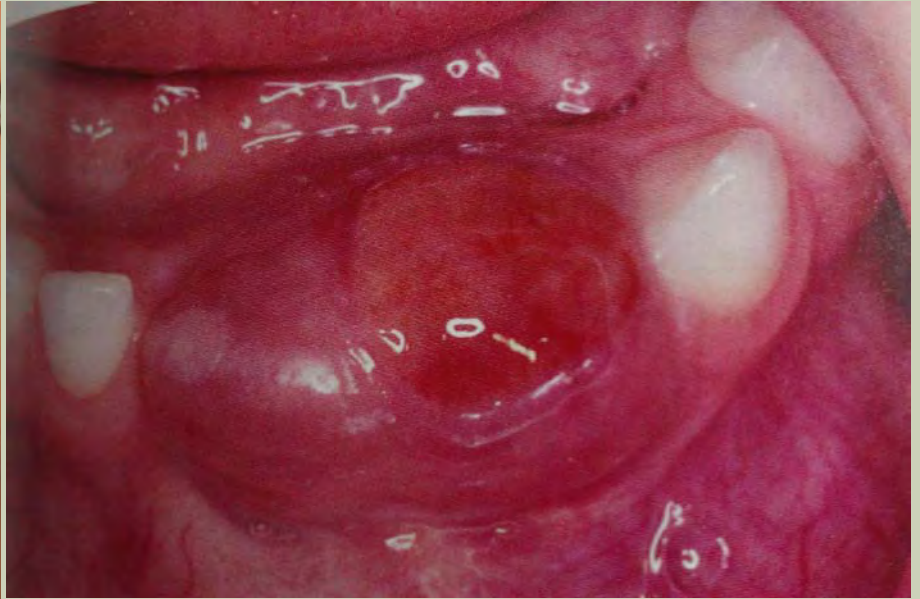


<b>Radiodensity</b>	Well-defined multilocular, soap bubble radiolucency	Well-defined honeycombed radiolucency
<b>Margin</b>	Corticated margin	Corticated margin
<b>Effects on Surrounding structures</b>	Downward displacing mandibular canal and crown & root resorption and displacement of tooth 48	Scallops between the roots of adjacent tooth and without bone expansion and no root resorption

# CENTRAL GIANT CELL GRANULOMA



**Our case**



**Central giant cell  
granuloma**

# CLINICAL COMPARISON

	Our case	Central giant cell granuloma
<b>Age</b>	47 y/o	2 – 80 y/o, 60% <30 y/o
<b>Gender</b>	Female	Female
<b>Site</b>	R't posterior mandibular body	70 % mandible and cross the midline
<b>Size</b>	2.5 x 1.5 cm	Non-mentioned
<b>Duration</b>	Unknown	Slow-growing
<b>Base</b>	Sessile	Sessile
<b>Color</b>	Normal mucosa	Blue, purple
<b>Shape</b>	Dome	Dome
<b>Surface</b>	Smooth	Smooth
<b>Consistency</b>	Hard	Non-mentioned
<b>Pain</b>	+	-
<b>Tenderness</b>	+	+
<b>Mobility</b>	Fixed	Non-mentioned
<b>Induration</b>	Unknown	Non-mentioned

# X-RAY FINDING COMPARISON



<b>Radiodensity</b>	Well-defined multilocular, soap bubble radiolucency	Well-defined uni/multilocular radiolucency
<b>Margin</b>	Corticated margin	Noncorticated margin
<b>Effects on Surrounding structures</b>	Downward displacing mandibular canal and crown & root resorption and displacement of tooth 48	Tooth resorption / displacement and downward displacing mandibular canal



# INTRABONY VASCULAR MALFORMATION



**Our case**



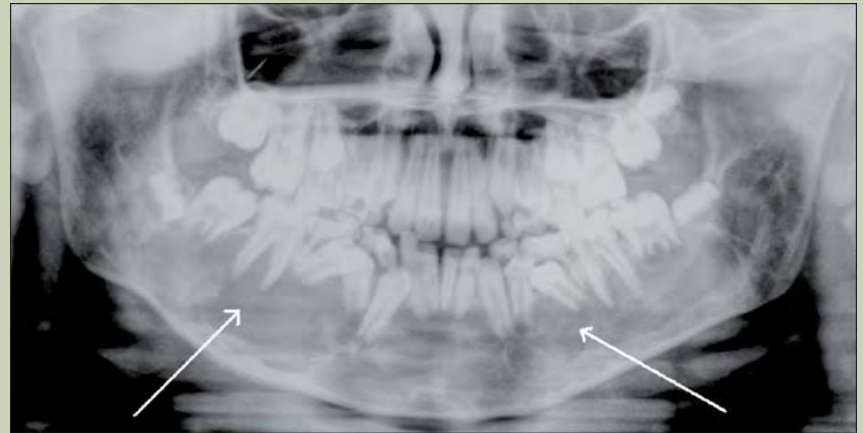
**Vascular Malformation**



# CLINICAL COMPARISON

	Our case	Vascular Malformation
<b>Age</b>	47 y/o	0 ~ 20 y/o
<b>Gender</b>	Female	Female
<b>Site</b>	R't posterior mandibular body	Mandibular
<b>Size</b>	3.5 x 3.0 cm	> 4 cm
<b>Duration</b>	Unknown	Non-mentioned
<b>Base</b>	Sessile	Sessile
<b>Color</b>	Normal mucosa	Normal mucosa, red
<b>Shape</b>	Dome	Dome
<b>Surface</b>	Smooth	Smooth
<b>Consistency</b>	Hard	Non-mentioned
<b>Pain</b>	+	-
<b>Tenderness</b>	+	-
<b>Mobility</b>	Fixed	Fixed
<b>Induration</b>	Unknown	Non-mentioned

# X-RAY FINDING COMPARISON



<b>Radiodensity</b>	Well-defined multilocular, radiolucency	Well-defined multilocular honeycombed of soap-bubble radiolucency
<b>Margin</b>	Corticated margin	Noncorticated margin
<b>Effects on Surrounding structures</b>	Downward displacing mandibular canal and crown & root resorption and displacement of tooth 48	Sun-burst appearance / cortical expansion / mandibular canal enlargement

# ODONTOGENIC KERATOCYST



**Our case**



**Odontogenic Keratocyst**

# CLINICAL COMPARISON

	<b>Our case</b>	<b>Odotogenic keratocyst</b>
<b>Age</b>	47 y/o	10 ~ 40 y/o (60%)
<b>Gender</b>	Female	Male
<b>Site</b>	R't posterior mandibular body	<b>Mandibular posterior region (60~80%)</b>
<b>Size</b>	3.5 x 3.0 cm	Non-mentioned
<b>Duration</b>	Unknown	Non-mentioned
<b>Base</b>	Sessile	<b>Sessile</b>
<b>Color</b>	Normal mucosa	<b>Normal mucosa, red</b>
<b>Shape</b>	Dome	<b>Dome</b>
<b>Surface</b>	Smooth	<b>Smooth</b>
<b>Consistency</b>	Hard	Non-mentioned
<b>Pain</b>	+	<b>+</b>
<b>Tenderness</b>	+	Non-mentioned
<b>Mobility</b>	Fixed	Movable
<b>Induration</b>	Unknown	Non-mentioned

# X-RAY FINDING COMPARISON



<b>Radiodensity</b>	Well-defined multilocular, radiolucency	Well-defined unilocular radiolucency
<b>Margin</b>	Corticated margin	Corticated margin
<b>Effects on Surrounding structures</b>	Downward displacing mandibular canal and crown & root resorption and displacement of tooth 48	Less adjacent tooth root resorption and 25% ~ 40% contain impacted tooth

# CLINICAL IMPRESSION

- Conventional solid ameloblastoma over R't posterior mandibular body and tooth 48 contained
- Odontogenic keratocyst over R't posterior mandibular body and tooth 48 contained

# REFERENCES

- Brad W. Neville, Douglas D. Damm, Carl M. Alien, Jerry E. Bouquot. Oral and maxillofacial pathology, 3<sup>rd</sup> ed. St. Louis, MO: Saunders; 2009.
- Norman K. Wood, Paul W. Goaz. Differential Diagnosis of Oral and Maxillofacial Lesions, 5<sup>th</sup> ed. St. Louis, MO: Mosby; 1997.
- Stuart C.White, Michael J.Pharoah. Oral Radiology: Principles and Interpretation, 6<sup>th</sup> ed. St. Louis, MO: Mosby; 2009.



Smile

Thanks For

Attention!!!

