

Case report

Case report

Oral Diagnosis seminar 第六組

指導老師：陳玉昆醫師

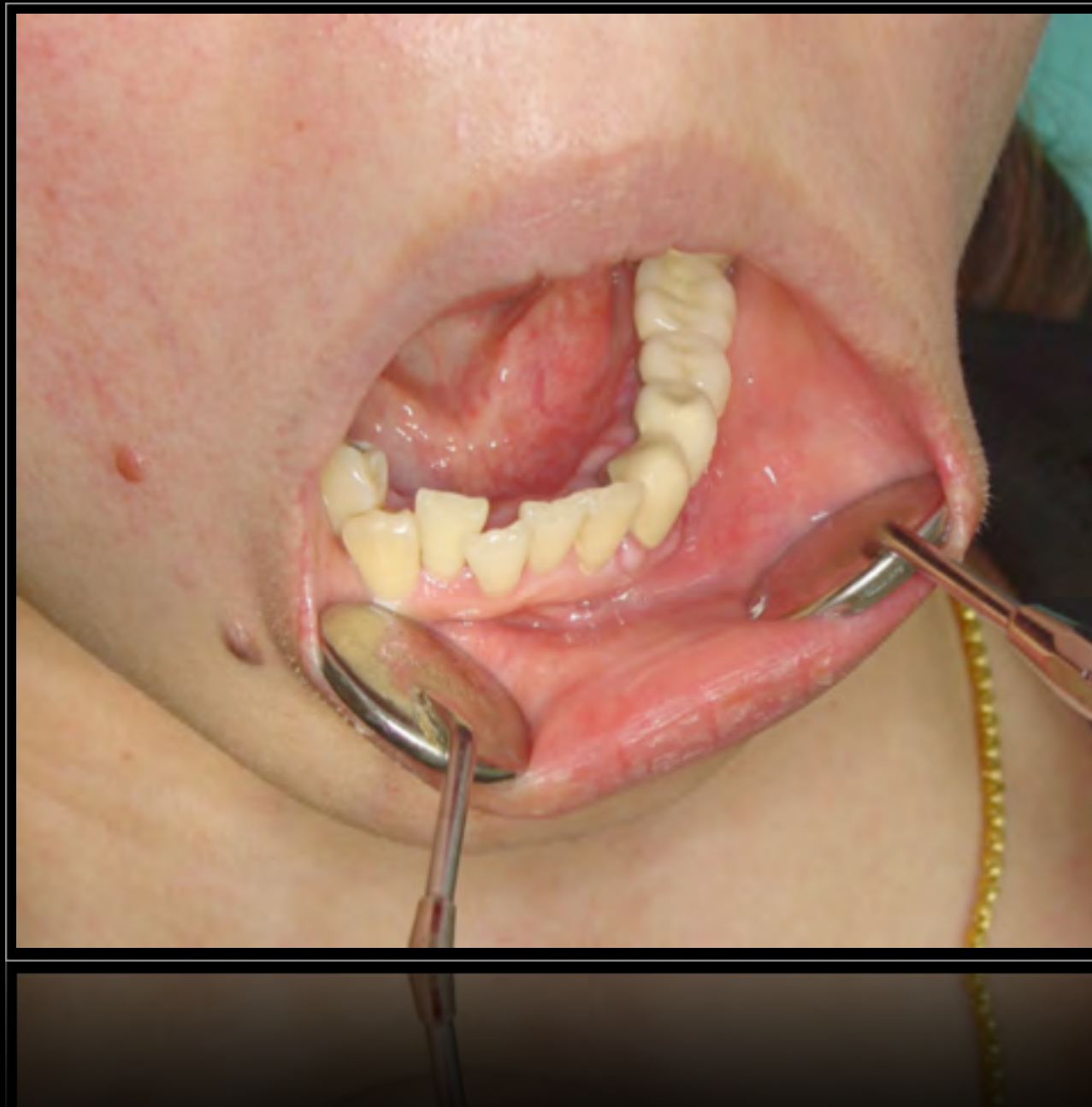
General Data

- Name: XXX
- Gender: female
- Age: 33 years old
- Marital status: married
- Occupation: house wife



Chief Complaint

- A swelling mass over lower left gum



Present Illness

- This 33 years old female suffered from swelling and numbness over lower left gingiva for more than one year.
- She had been to LDC for help. After X-ray examination, she was referred to our OPD for further evaluation and treatment.

Past medical history

Past medical history

- Denied all the following systemic disease

Past medical history

- Denied all the following systemic disease

- Hepatitis & liver disease
- Neoplasm, cancer
- Heart disease
- Hypertension
- Thyroid disease
- Tuberculosis
- Renal disease
- Diabetes mellitus
- Blood disorder
- Sexual transmitted disease

Past medical history

- Denied all the following systemic disease

Past medical history

- Denied all the following systemic disease
- Denied any other systemic disease

Past medical history

- Denied all the following systemic disease
- Denied any other systemic disease
- Denied any drug and food allergy

Past medical history

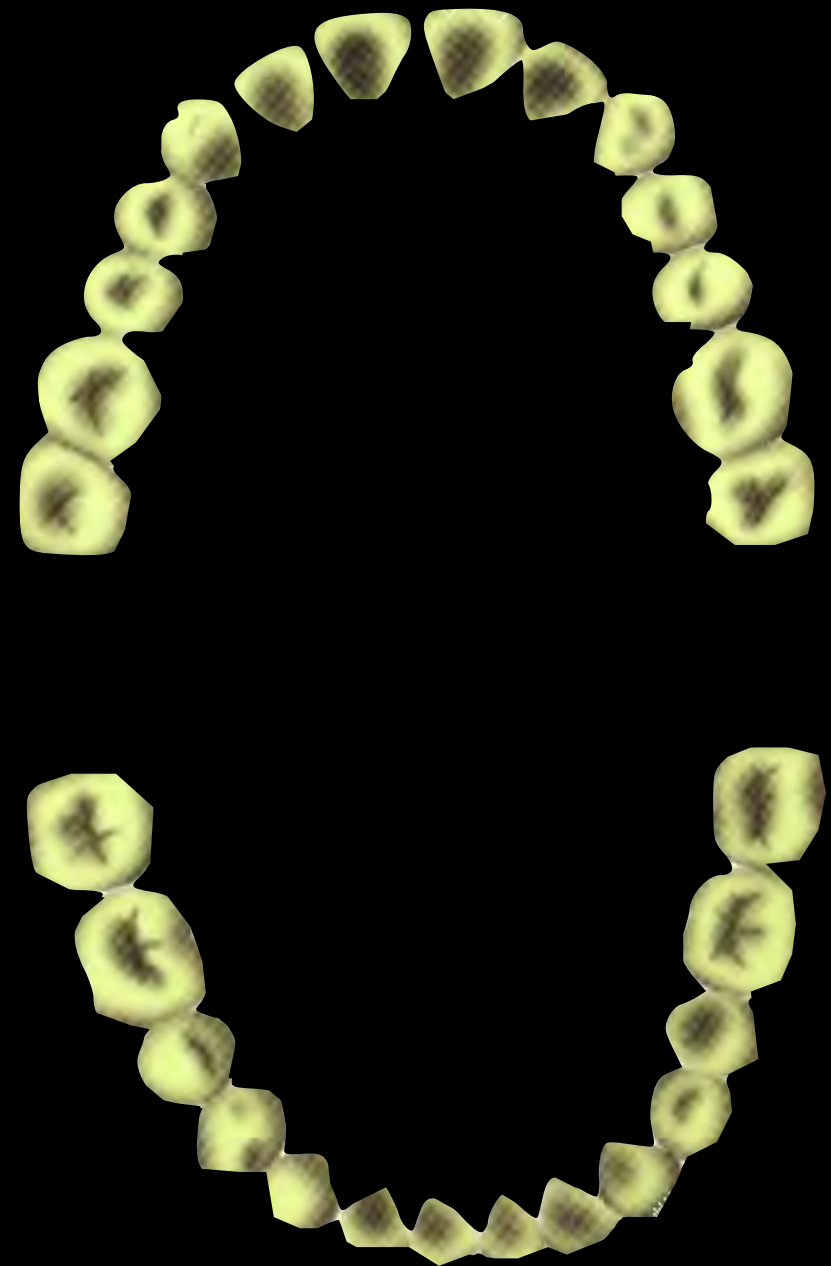
- Denied all the following systemic disease
- Denied any other systemic disease
- Denied any drug and food allergy
- Hospitalization (-)

Past dental history

- maxillary right 4X6 crown & bridge
- I2 crown
- maxillary left I2 crown & bridge
- mandibular left 34X7 crown & bridge
- mandibular right 6X8 crown & bridge

Past dental history

- maxillary right 4X6 crown & bridge
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- mandibular left 34X7 crown & bridge
- mandibular right 6X8 crown & bridge



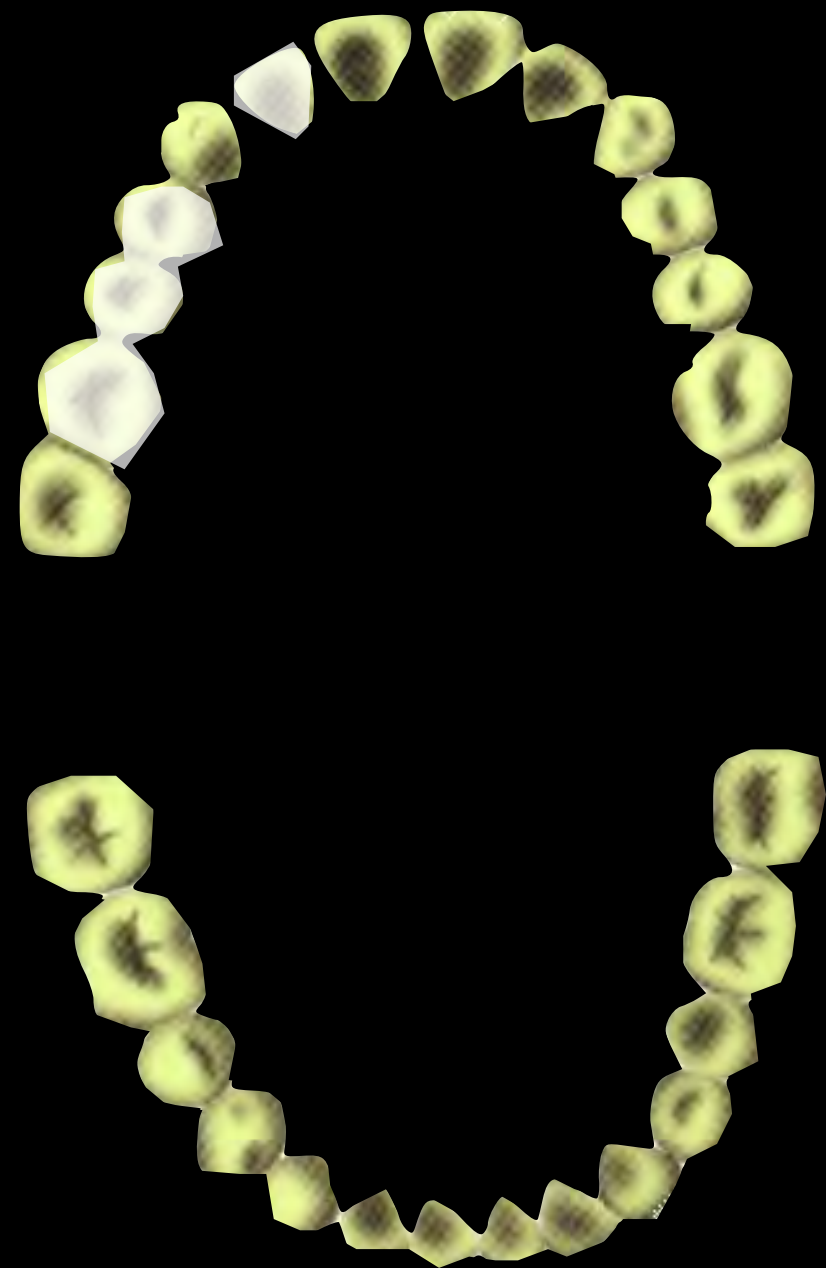
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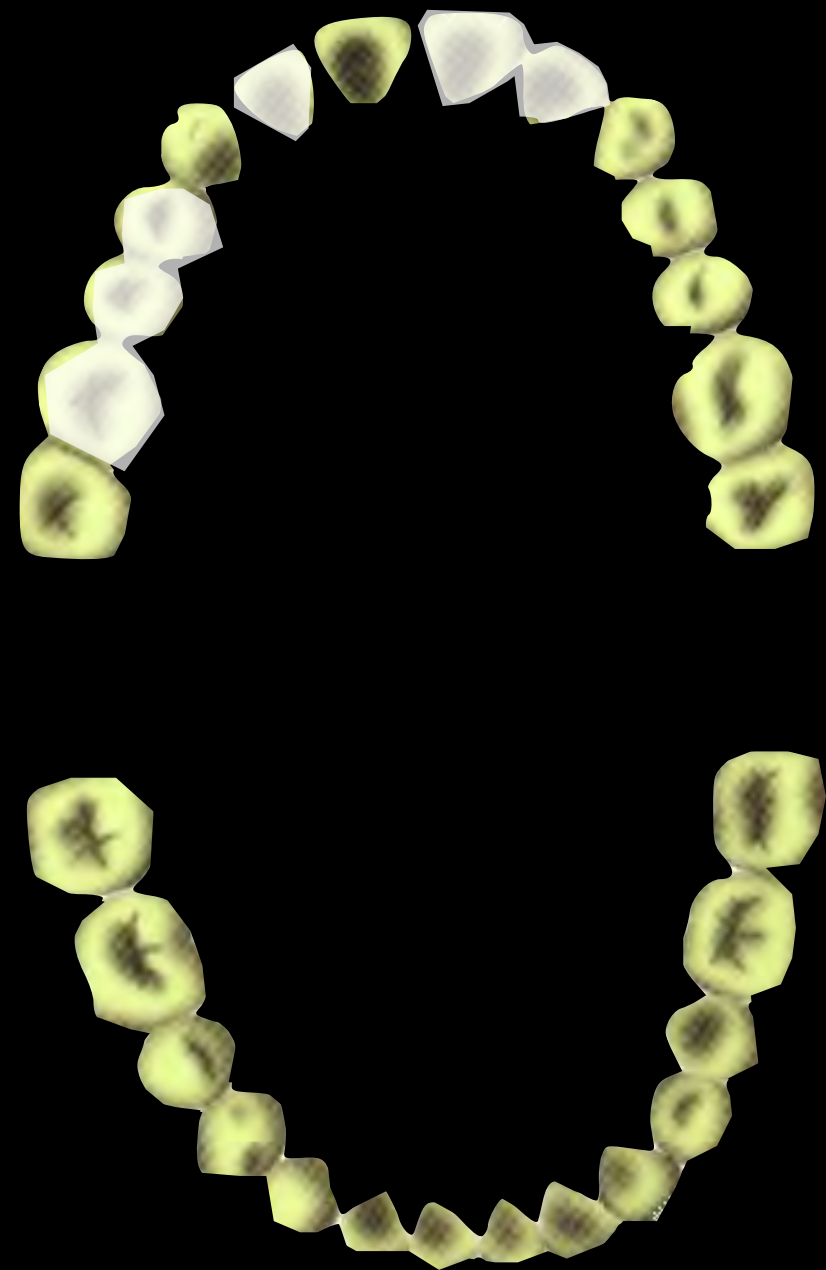
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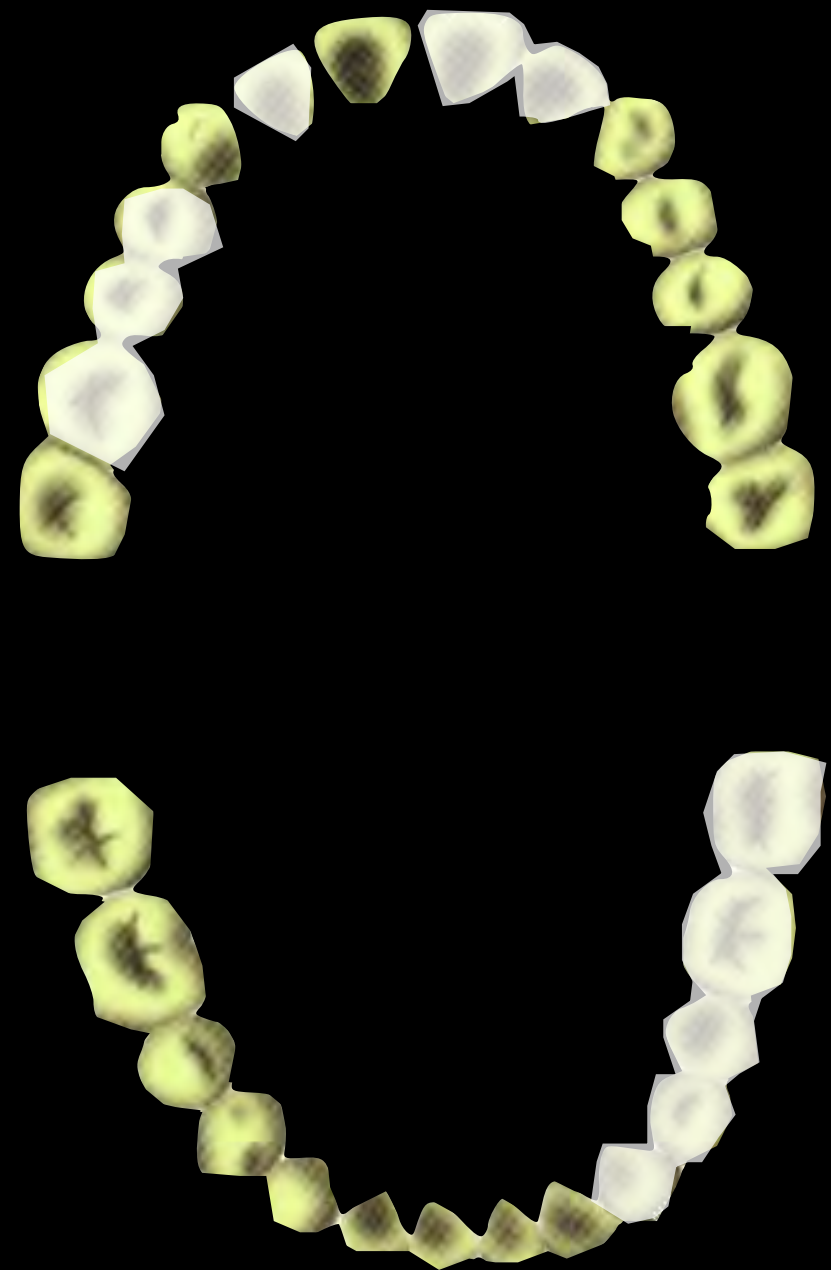
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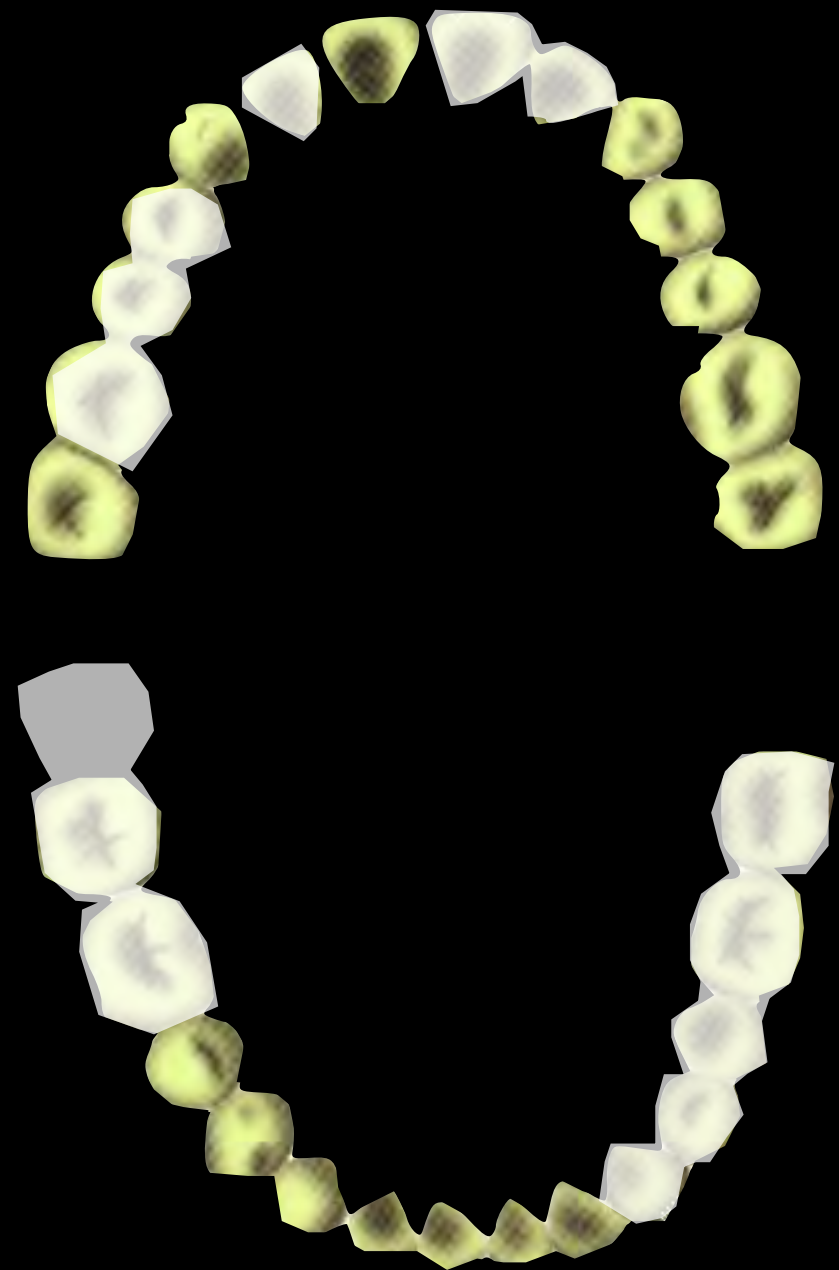
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Past dental history

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Personal habits

Personal habits

- Risk factors related to malignancy
 - Alcohol: (-)
 - Betel quid: (-)
 - Cigarette: (-)

Personal habits

- Risk factors related to malignancy
 - Alcohol: (-)
 - Betel quid: (-)
 - Cigarette: (-)
- No other special habits

Oral examination

- Food impaction
- Plaque & calculus deposition
- Gingiva swelling
- Anterior teeth crowding
- Numbness (+)
- Swelling from tooth 42 to tooth 36

Radiographic findings

Radiographic findings

Radiographic findings





高雄醫學大學附設中和紀念醫院
科別 牙
檢驗項目



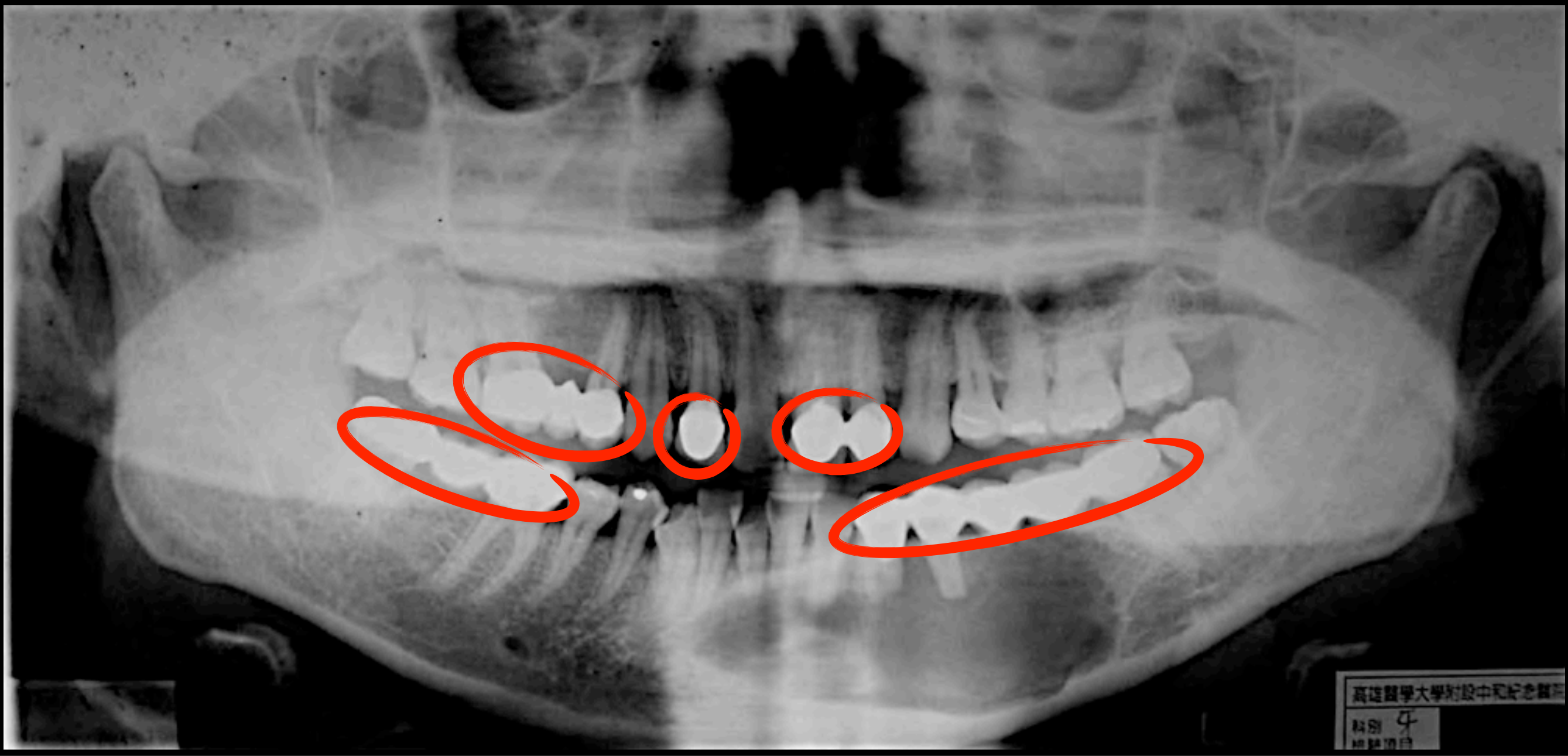
- There is a **irregular shape monocular radiolucency** with a **well-defined corticated margin**, extending superiorly to the cervical of tooth 33 & 34 and inferiorly to 5mm above mandible border, and from the area below tooth 42 to the area below the 36 pontic, measuring approximately 6.0 cm x 3.0 cm in diameter.



高雄醫學大學

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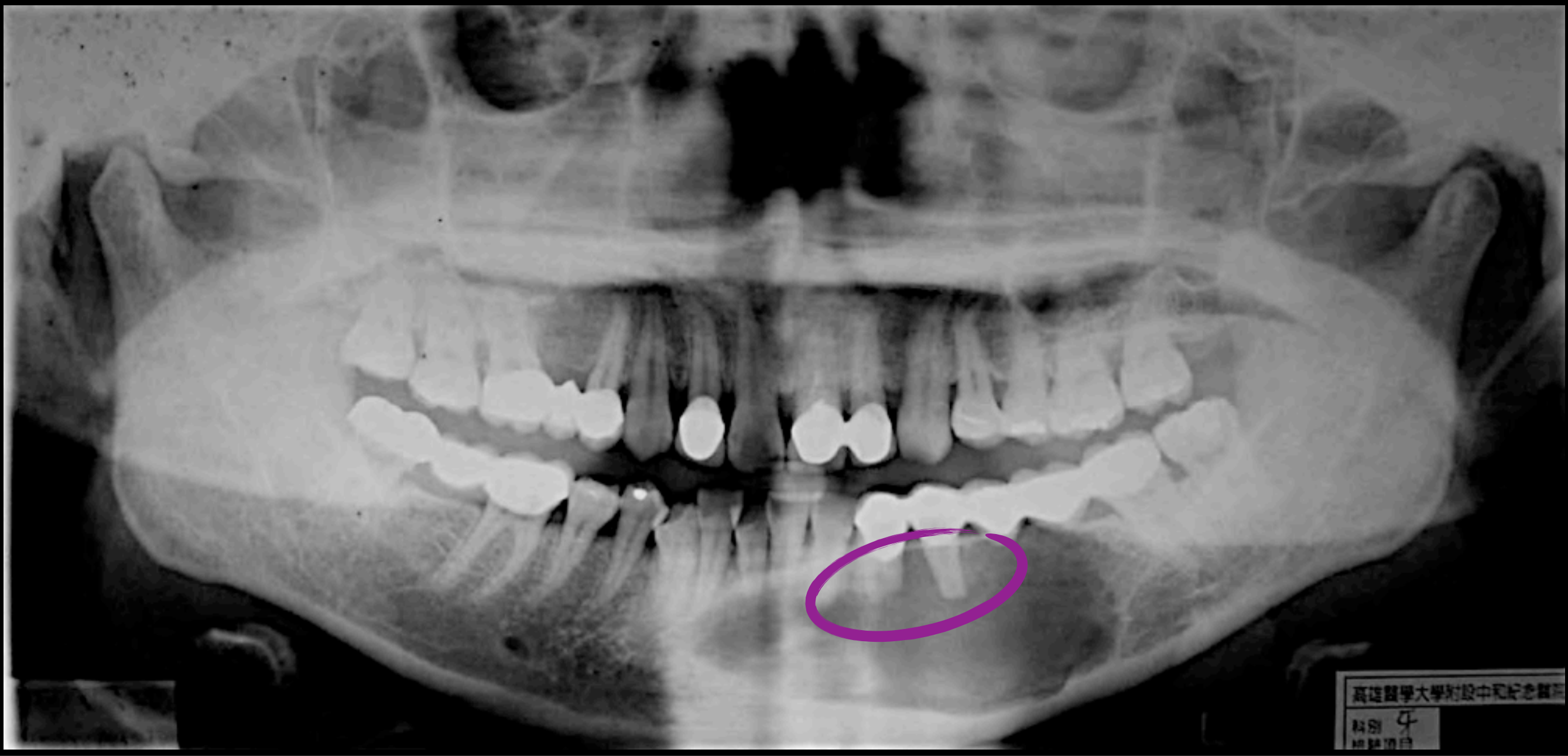




$$\begin{array}{r|l} 4X6 & 2 \\ \hline 7X8 & 34X7 \end{array}$$

crown & bridge





—+—
34

root resorption

Working Diagnosis

Working Diagnosis

Working Diagnosis

Inflammation

Cyst

Neoplasm

Working Diagnosis

Inflammation

Cyst

Neoplasm

Our case

- Redness (-)
- Fever (-)
- Local heat (-)
- Swelling (+)

- Color: pink
- Numbness (+)
- Pain (-)

Working Diagnosis

Inflammation

Cyst

Neoplasm

Working Diagnosis

Cyst

Neoplasm

Working Diagnosis

Working Diagnosis

Benign

Malignant

Working Diagnosis

Benign

- a. Movable**
- b. Unattached to skin or mucosa**
- c. No ulceration of skin or mucosa**
- d. Slow growth**
- e. Long duration**
- f. No pain**
- g. No facial nerve palsy**

Malignant

Working Diagnosis

Benign

- a. Movable**
- b. Unattached to skin or mucosa**
- c. No ulceration of skin or mucosa**
- d. Slow growth**
- e. Long duration**
- f. No pain**
- g. No facial nerve palsy**

Malignant

- a. Induration**
- b. Fixed to overlying skin or mucosa**
- c. Ulceration of skin or mucosa**
- d. Rapid growth; growth spurt**
- e. Short duration**
- f. Pain, often severe**
- g. Facial nerve palsy**

Working Diagnosis

Benign

Malignant

Our case

- Mobility: fixed
- Consistency: firm
- Ulceration (-)
- Lymphadenopathy (-)
- one year long
- Pain (-)
- Induration (-)
- Smooth surface
- Well-defined radiolucency

Working Diagnosis

Benign

Working Diagnosis

Working Diagnosis

Peripheral

Central

Working Diagnosis

Peripheral

Central

Our case

- Mucosal lesion (-)
- Induration (-)
- Consistency: firm
- Bone destruction (+)

Working Diagnosis

Central

Working Diagnosis

Working Diagnosis

Inflammation

Cyst

Neoplasm

Working Diagnosis

Inflammation

Cyst

Neoplasm

Benign

Malignant



Working Diagnosis

Inflammation

Cyst

Neoplasm

Benign

Malignant

Peripheral

Central



Working Diagnosis

Inflammation

Cyst

Neoplasm

Benign

Malignant

Peripheral

Central



Working Diagnosis

Central

Benign

Cyst

Neoplasm

Working Diagnosis

Working Diagnosis

Cyst

Neoplasm

Cyst

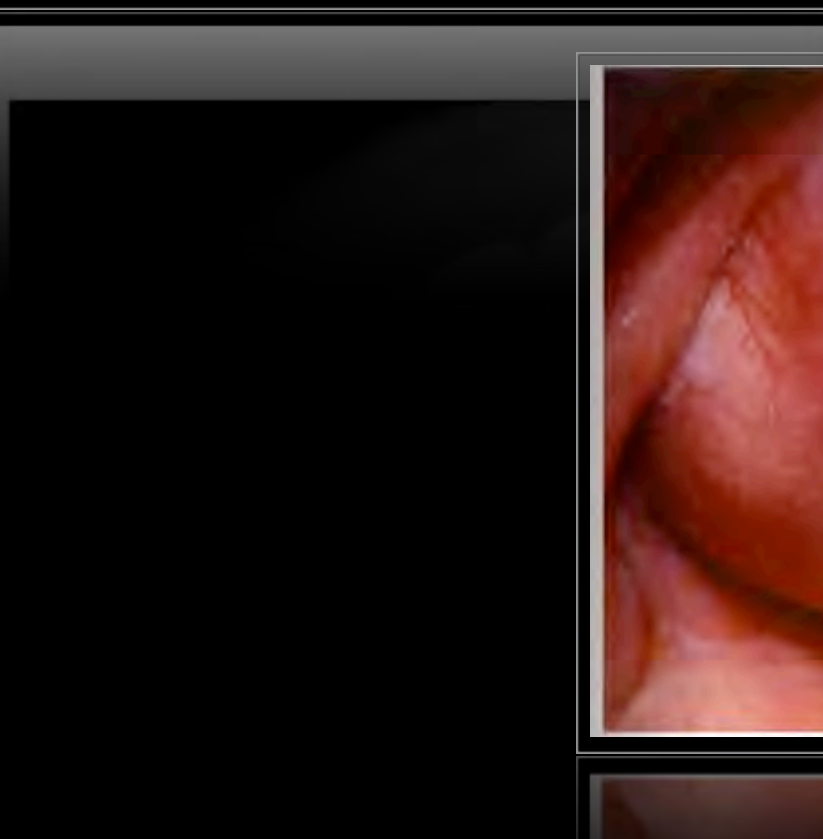
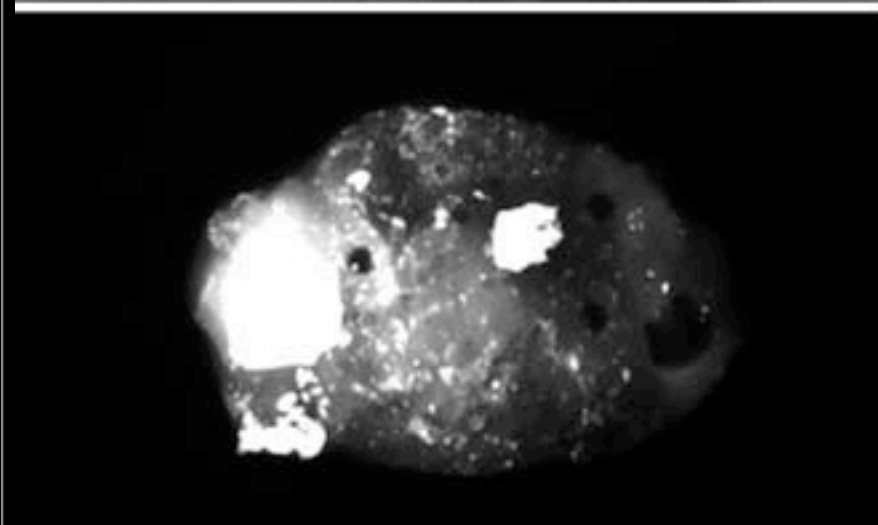
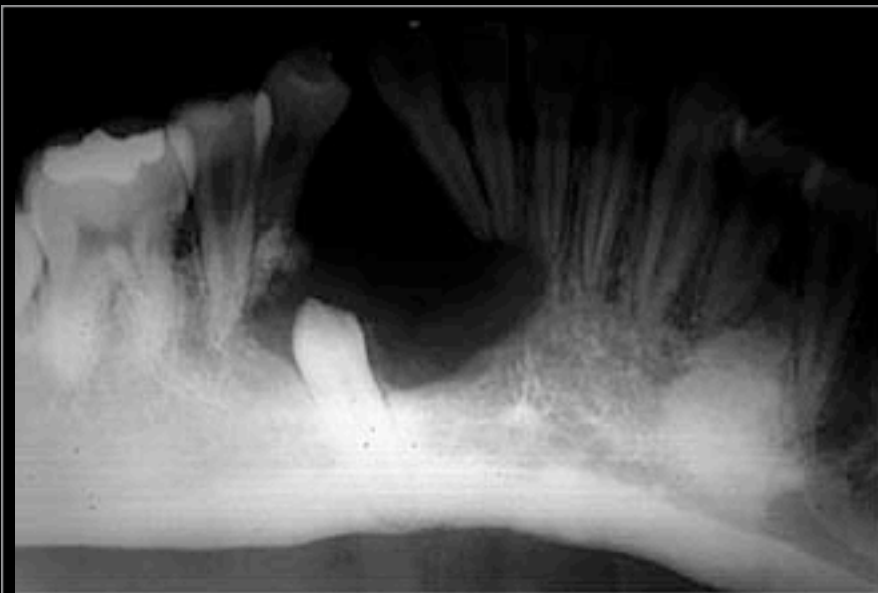
True cyst

False cyst

Cyst

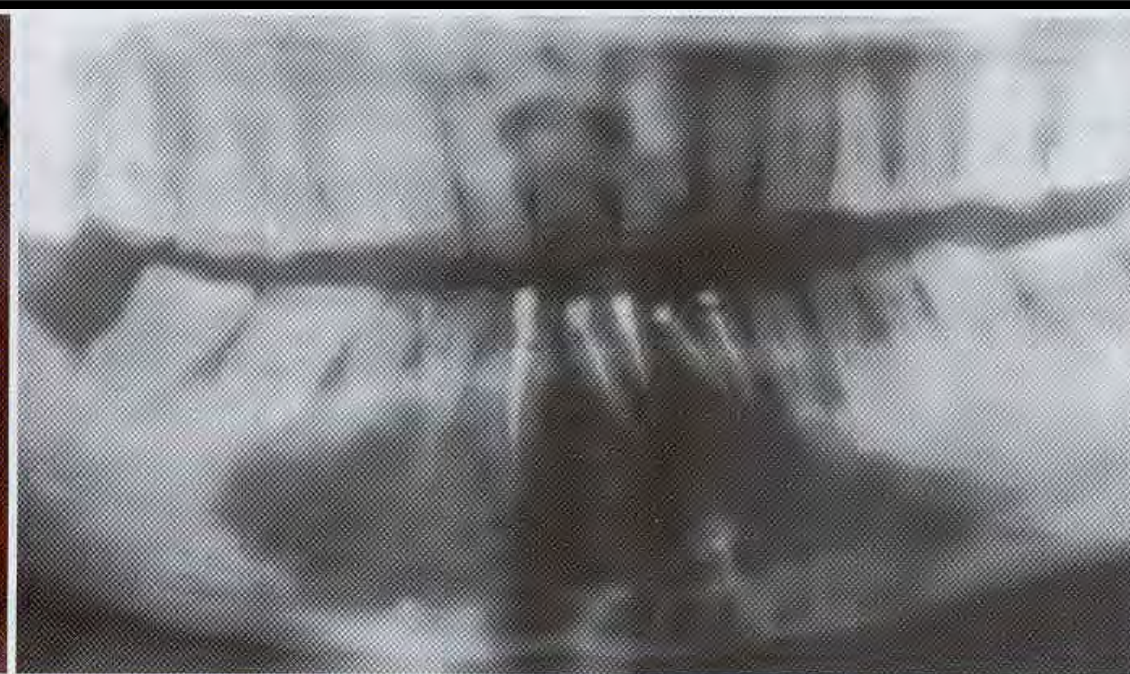
True cyst

- Glandular odontogenic cyst
- Odontogenic keratocyst



Glandular odontogenic cyst

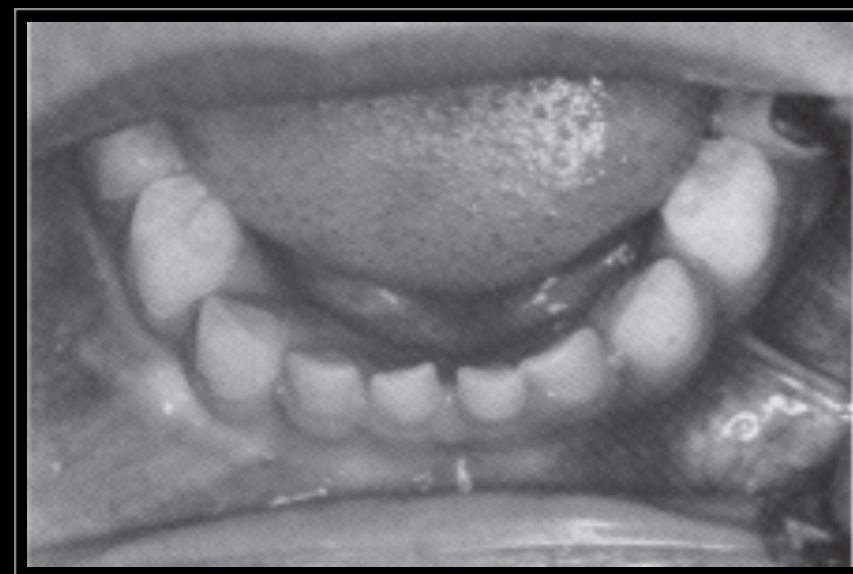
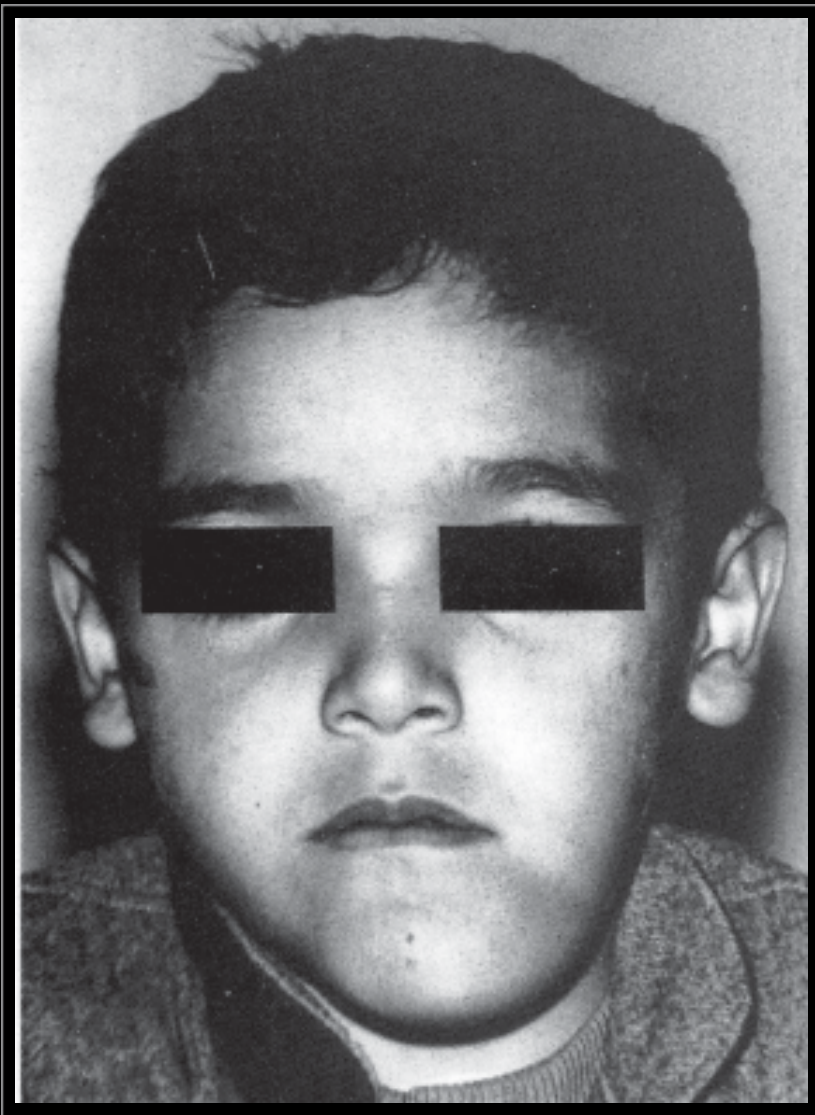
	Glandular odontogenic cyst	Our case
Gender	no specific	Female
Age	Middle-aged adult, mean age:49, rarely before 20	33 years old
Site	anterior mandible areas, cross midline	From tooth 42 to tooth 36
Feature	Small size: asymptomatic Large size: expansion with pain	Gingival swelling, numbness, painless
X-ray	Well defined unilocular or multilocular(more common) radiolucency with sclerotic rim	Radiolucency with radiopaque and a well defined margin. Roots resorption.



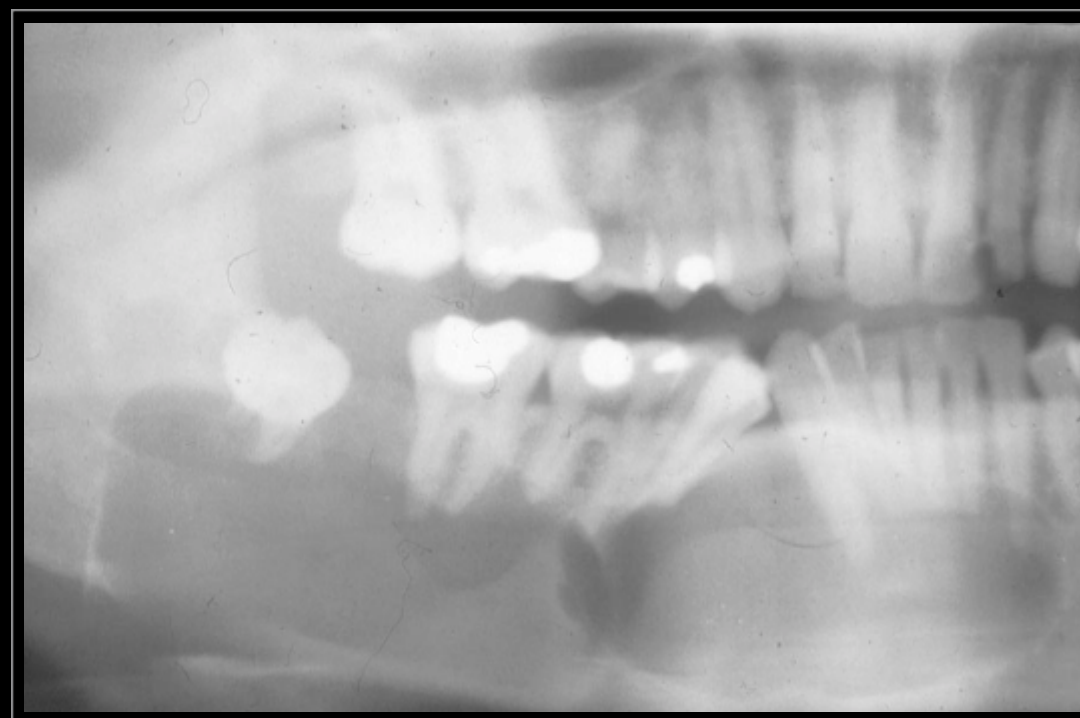
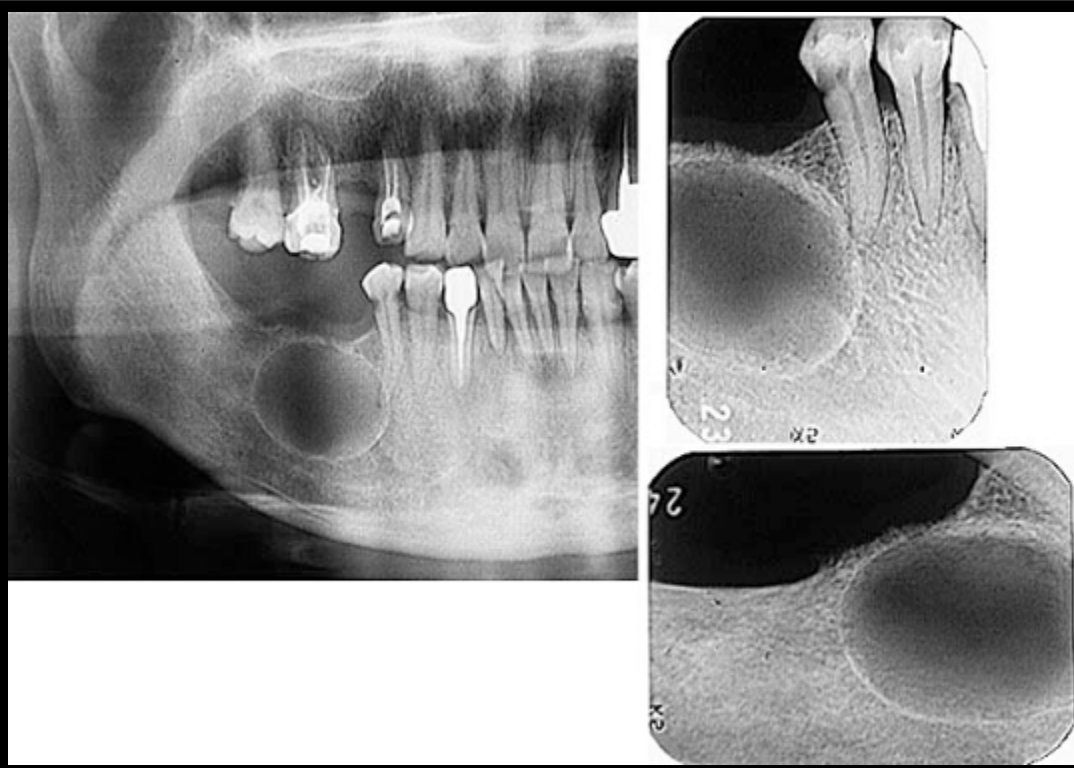
Odontogenic keratocyst

	OKC	Our case
Site	Mandible, with a marked tendency involve the posterior body and ascending ramus	Mandible, from 42to 36
age	Range in age from infant to old age, but about 60%are diagnosed between 10 and 40.	33ys
pain	Small : asymptomatic Large : pain, swelling and drainage Some extremely large : may cause no symptom	Painless
Gender	Slightly male predilection	Female
Shape	Dome	dome

	ascending ramus	
age	Range in age from infant to old age, but about 60%are diagnosed between 10 and 40.	33ys
pain	Small : asymptomatic Large : pain, swelling and drainage Some extremely large : may cause no symptom	Painless
Gender	Slightly male predilection	Female
Shape	Dome	dome
base	Sessile	sesslie
ulcer	(-)	(-)
surface	Smooth	smooth
consistency	pus-like consistency	firm



	OKC	Our case
size		3.0x6.0cm
defined	Well-defined	Well define
Margin	Smooth and often corticated margins	corticated
Root resorption	Maybe, but less common than dentigerous cyst	(+) a little
cortical perforation	occasionally	(-)
locular	Unilocular RL, but large lesions may appear multilocular	Unilocular RL



Cyst

True cyst

False cyst

Cyst

False cyst

- Calcifying odontogenic cyst (Gorlin cyst)
- Aneurysmal bone cyst
- Simple bone cyst

Calcifying odontogenic cyst (Gorlin cyst)

	COC	Our case
Age	平均年齡33歲	33歲
X-ray	cystic like的unilocular radiolucency with scattered radiopaque foci，但早期因鈣化物小呈complete radiolucency	unilocular well-defined radiolucency
Site	好發於incisor – canine area	下顎的43~26，cross midline
Feature	有一半病人與unerupted tooth有關且會造成鄰牙吸收	牙根吸收但無unerupted tooth

Aneurysmal bone cyst

	aneurysmal bone cyst	Our case
Site	In the long bone, the vertebrae, occasionally in the jaw (most in the molar region)	Mandible, from 42to 36
age	Most in children and young adults with an approximate mean age at 20 yr	33ys
pain	(+)	Painless
Gender	No sex predilection	Female
Shape	Swelling	dome
Color	Reddish-brown	Pink
consistency	Tender and soft	
induration	(-)	(-)

	aneurysmal bone cyst	Our case
size	Variable-sized	3.0x6.0cm
defined	Well defined	Well define
Margin	Marked cortical	corticated
Root resorption	seldom	(+) a little
cortical perforation	(-) but it will thin and expand the cortical plate	(-)
locular	Unilocular to multilocular RL lesion, and when it is larger, frequently balloons out of the cortex.	Unilocular RL

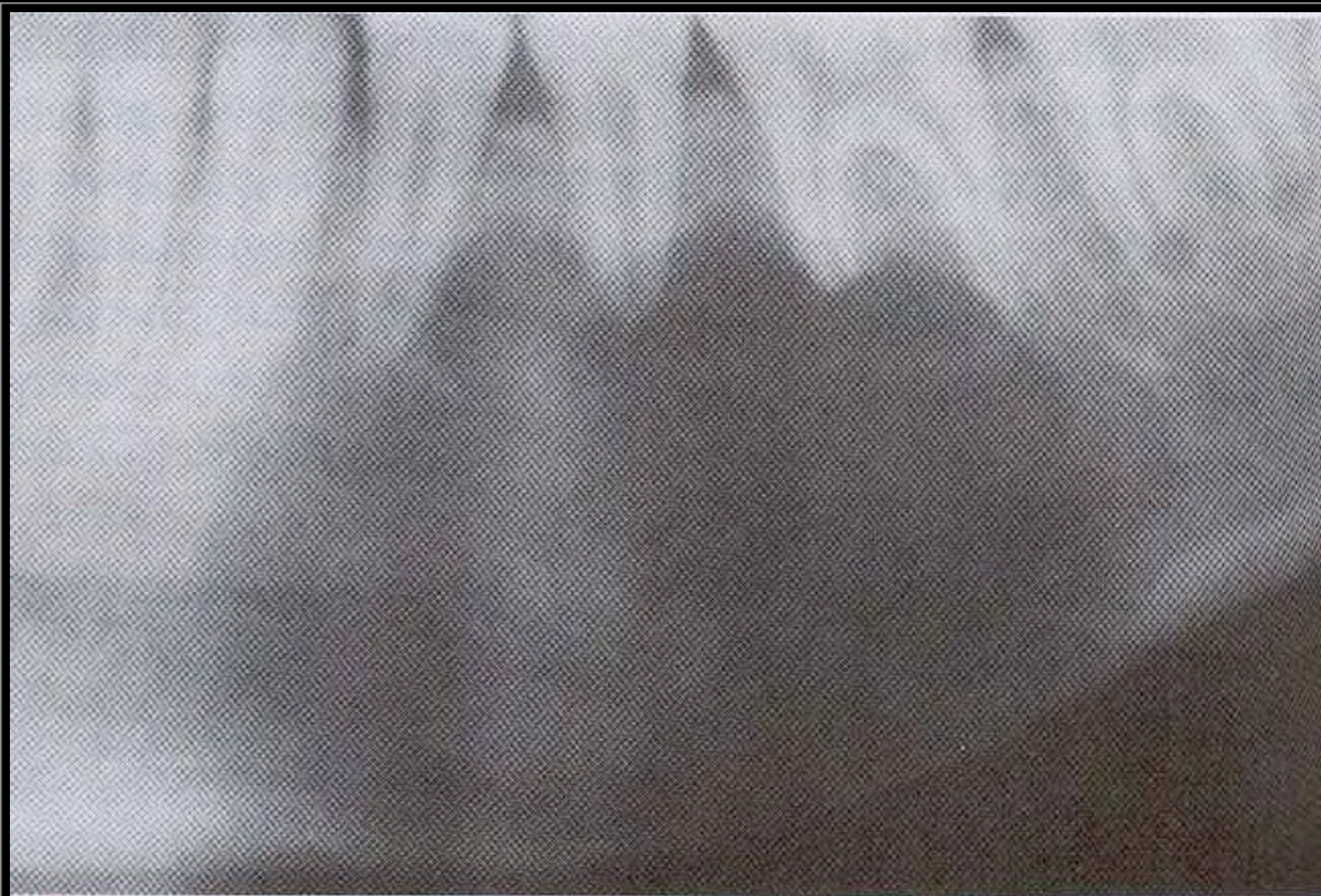


Simple bone cyst

	simple bone cyst	Our case
Site	大多發生在長骨，顎骨的話以Mandible後牙區居多，且在mandibular canal之上。	Mandible, from 42to 36
age	10~20歲 (甚少<5歲或>35歲)	33ys
pain	usually are asymptomatic unless complicated by fracture 無症狀，除非骨折才可能有疼痛和有症狀	Painless
Gender	Male (60%)	Female
Shape	Dome	dome
base	Sessile	Sessile
	無症狀，外觀正常，此	

pain	usually are asymptomatic unless complicated by fracture 無症狀，除非骨折才可能有疼痛和有症狀	Painless
Gender	Male (60%)	Female
Shape	Dome	dome
base	Sessile	Sessile
mobility	無症狀，外觀正常，此病要X光才檢查得出來	fixed
Color	無症狀，外觀正常，此病要X光才檢查得出來	Pink
ulcer	(-)	(-)
surface	Smooth	smooth
induration	(-)	(-)

	simple bone cyst	Our case
size	從直徑1cm到involve整個mandible都有可能	3.0x6.0cm
defined	Well-defined	Well define
Margin	corticated	corticated
Root resorption	(-)	(+) a little
cortical perforation	(-)	(-)
locular	Unilocular RL, multilocular is rare	Unilocular RL



Working Diagnosis

Working Diagnosis

Cyst

Neoplasm

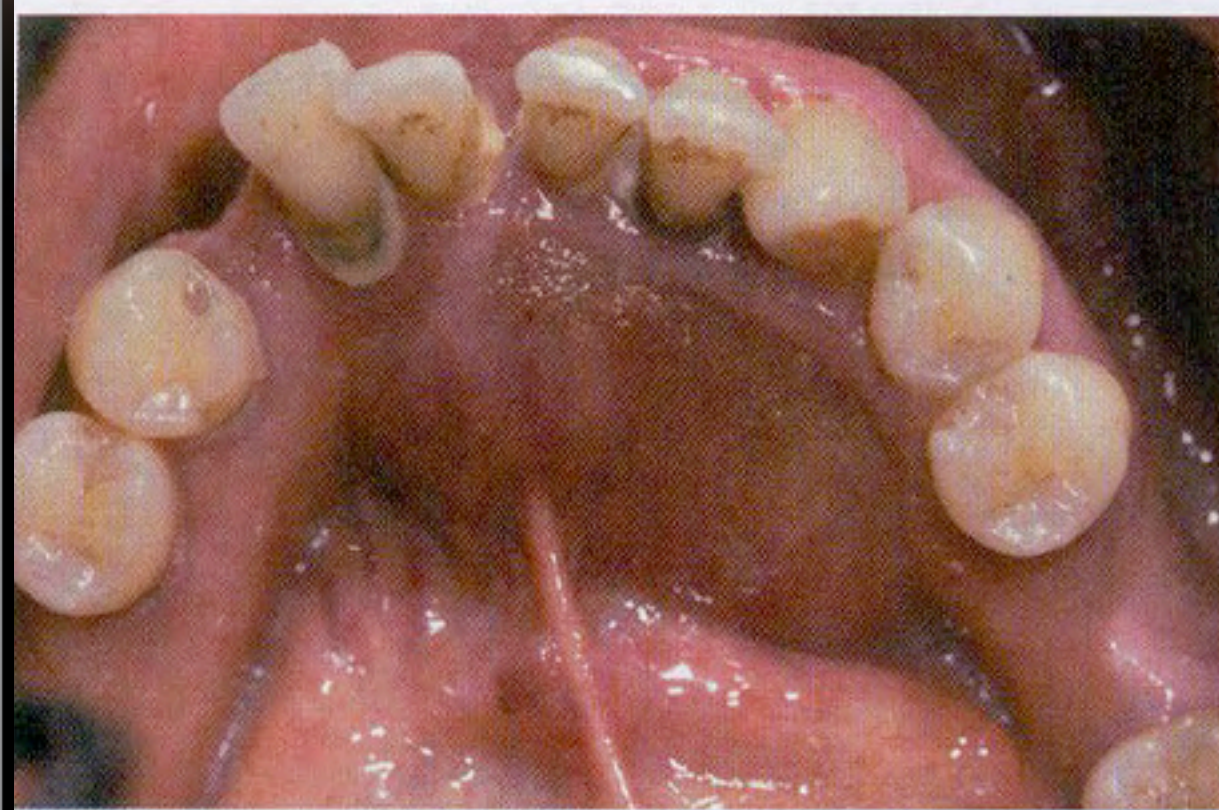
- Unicystic Ameloblastoma
- Neurilemoma
- Central giant cell granuloma

Neoplasm

- Unicystic Ameloblastoma
- Neurilemoma
- Central giant cell granuloma

Unicystic Ameloblastoma

	Unicystic Ameloblastoma	Our case
Site	Posterior regions. molor – ascending ramus area	Mandible, from 42to 36
age	23 years old	33ys
pain	Painless	Painless
Gender	F=M	Female
Shape	Variable	dome
base	Sessile	sesslie
mobility	fixed	fiexed
Color	Normal	Pink
surface	Smooth	smooth
consistency	solid	firm
induration	(-)	(-)

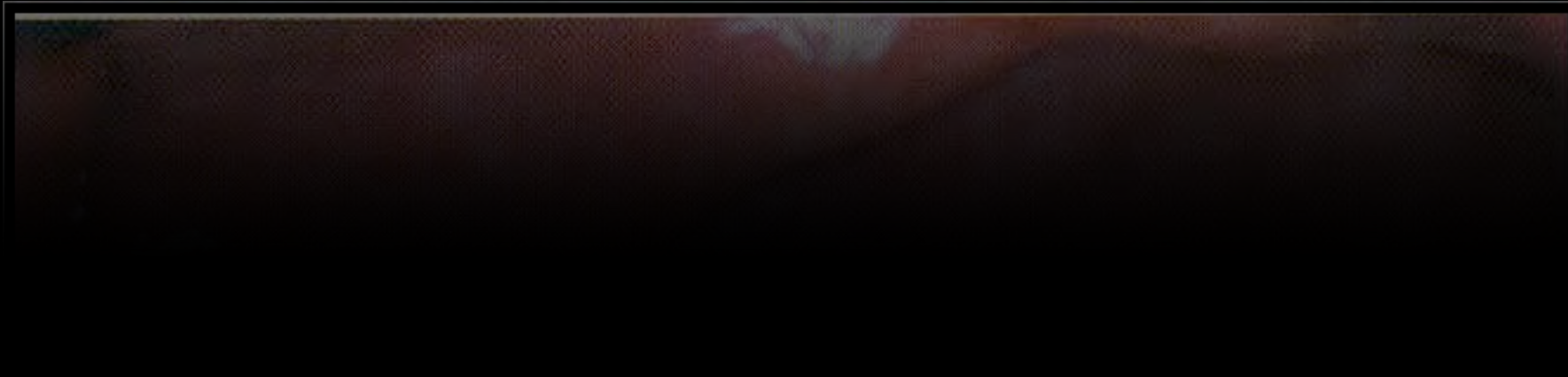
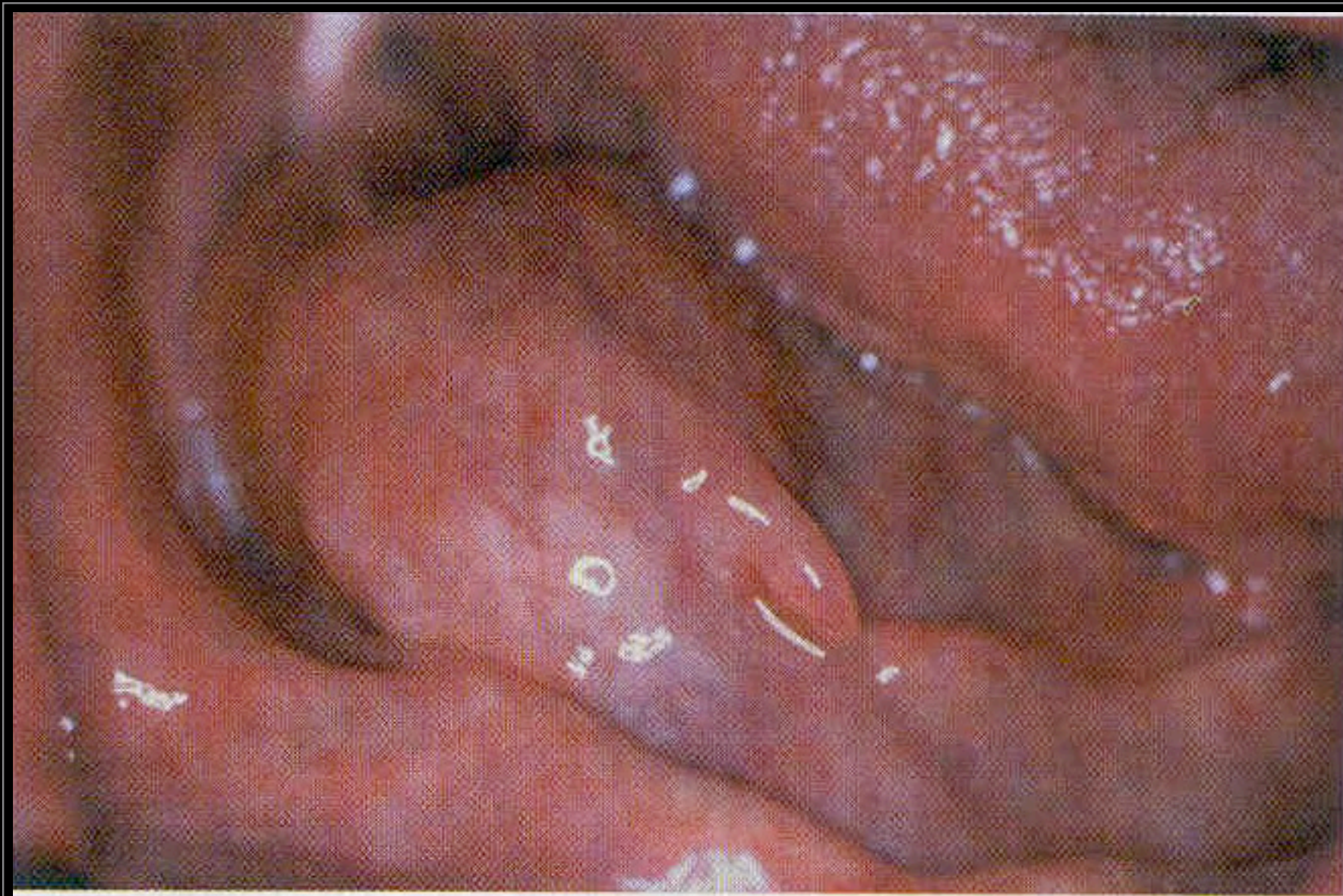


	Unicystic Ameloblastoma	Our case
size	variable	3.0x6.0cm
defined	Well define	Well define
Margin	noncorticated	corticated
Root resorption	(+)	(+) a little
cortical perforation	Cortical expansion	(-)
locular	Small unilocular RL	unilocular RL
Unerupted tooth	(+)	(-)



Neurilemoma

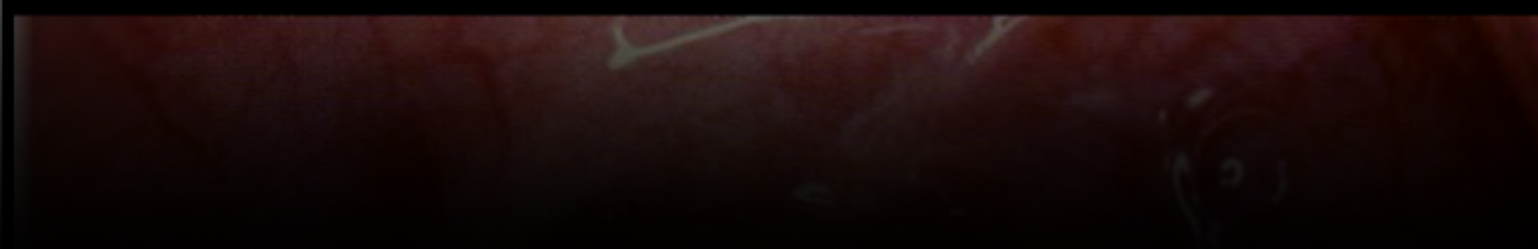
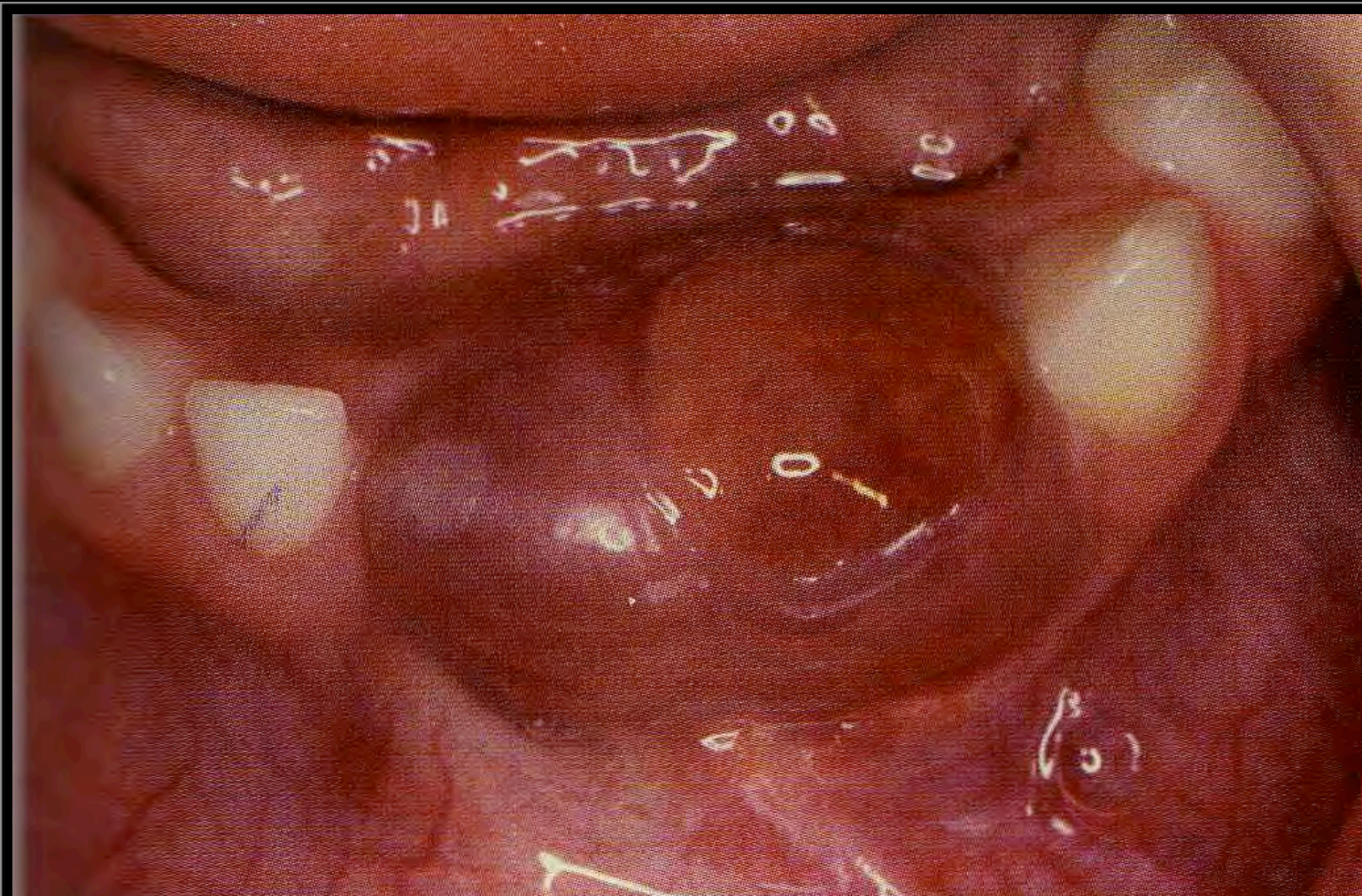
	neurilemoma	Our case
Site	Tongue /Posterior mandible	Mandible, from 42to 36
age	Young&middle-aged adult	33ys
pain	Pain or tenderness	Painless
Gender	none	Female
Shape	various	dome
induration	(-)	(-)



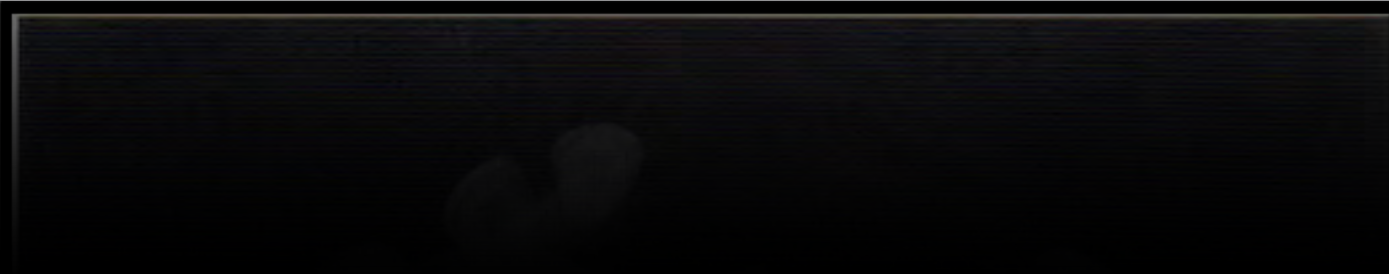
	neurilemoma	Our case
size	A few mm to several cm	3.0x6.0cm
defined	Well define	Well define
cortical perforation	expansion(+)	(-)
locular	Either unilocular or multilocular	Unilocular RL

Central giant cell granuloma

	Central giant cell granuloma	Our case
Site	Mandible/cross midline	Mandible, from 42to 36
age	under 30 ys	33ys
pain	painless	Painless
Gender	female	Female
Shape	soap-bubble type	dome
base	Pedunculated/sesslie	sesslie
mobility	fixed	fiexed
Color	bluish cast	Pink
ulcer	(-)	(-)
surface	smooth	smooth
consistency	firm	firm



	Central giant cell granuloma	Our case
size	5x5cm~10cm	3.0x6.0cm
defined	Well defined	Well define
Margin	generally noncorticated.	corticated
Root resorption	(-)/Aggressive(+)	(+) a little
cortical perforation	(-)/Aggressive(+)	(-)
locular	Multilocular71% / unilocular17% RL	Unilocular RL



Working Diagnosis

1. Odontogenic keratocyst
2. Unicystic Ameloblastoma
3. Central giant cell granuloma
4. Glandular odontogenic cyst
5. Calcifying odontogenic cyst (Gorlin cyst)
6. Aneurysmal bone cyst
7. Simple bone cyst
8. Neurilemoma

Impression

- Odontogenic keratocyst
- Unicystic Ameloblastoma

組長：蔡宛庭

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THANKS FOR YOUR
ATTENTION