指導醫師: 陳玉昆 主任 林立民 醫師 及口腔病理科全體醫師

Gase Report

Intern B 组 2014/09/30

工作分配

- ∞ General data & 醫學倫理討論: 羅世洺
- Differential diagnosis & Treatment course:
 郭偉祥、冀修弘
- ™ Discussion: 簡瑜文

General Data

Mame: 000

Sex: Female

Age: 17 y/o

» Native: 高雄市

™ Marital status: 未婚

⋒ Attending staff: 0 0 0 醫師

» First visit: 103/07/11

Chief Complaint

Pain over the left lower posterior area, referred from LDC for bony expansion over tooth 33,34,35 area



103/07/11

Present Illness

This 17 y/o female went to LDC because of pain over the lower left posterior area. The dentist found a bony expansion over the alveolar ridge of the tooth 33,34,35 area. Therefore, the dentist referred her to our OS OPD for further examination and treatment.

Intraoral examination

- Surface: Smooth
- Shape: Dome
- Size: 2.5 cm in diameter
- **Solution** Color: Pink
- Consistency: Hard
- Mobility: Fixed
- ▶ Pain (+)
- Tenderness (-)
- Induration (-)
- Frame Teeth tilting: tooth 33 (distal) 34 35 (mesial)



Image finding — Panorex



There is a well-defined homogeneous round-shaped mild radiopacity over the L't parasymphysis area, extending from mesial root of tooth 31 to distal root of tooth 35, and from middle third of crown of tooth 33,34 to 0.5cm above the left mandibular border, measuring approximately 2.5 x 2.5 cm and causes displacement of tooth 32, 33, 34, 35.

Image finding — Panorex



Dental findings:

- Horizontal impaction: tooth 38,48
- ❖ Distal-tilting: tooth 32, 33
- Mesial-tilting: tooth 34,35,36

Past medical history

- Underlying disease (-)
- Mospitalization (-)
- Surgery under GA (-)
- Allergy: Denied

Past Dental History

- Attitude to dental treatment: Co-operative
- March General routine dental treatment

Personal Habit

- Risk factors related to malignancy
 - Alcohol drinking (-)
 - Betel quid chewing (-)
 - Cigarette smoking (-)
- Special oral habits: Denied

Differential Diagnosis





Differential Diagnosis

- Intrabony or peripheral?
- Inflammation, cyst, or neoplasm?
- Benign or malignant?

Intrabony or Peripheral

	Our case	Intrabony	Peripheral
Mucosal lesion	-	-	+
Bone expansion	+	+/-	-
Cortical bone destruction	-	+/-	-
Consistency	Hard	Hard	Soft, firm, rubbery
Induration	-	-	+/-

[→]Our case is a Intrabony

Inflammation or neoplasm

	Our case	Inflammation	Neoplasm
Regress or progress	Progress	Regress	Progress
Symptom	-	+	+/-
Growth rate	Months, years	Hours, days, weeks	Weeks, months, years
Lymph node enlarge	_	+/-	+/-
Tenderness	-	-	-
Fluctuation	-	+/-	-

[→]Our case is a neoplasm.

Benign or malignant

	Our case	Benign	Malignant
Border	Well defined radiopacity	Well-defined	Poorly defined
Pain	+	-	+
Induration	-	-	+
Swelling with intact epithelium	+	+	-
Progress	Slow	Slow	Fast
Metastasis	-	-	+
Lymphadenopathy	-	-	+

→Our case is a benign tumor

Working Diagnosis





Working Diagnosis

- Cemento-ossifying fibroma
- ☼ Cemento-osseous dysplasia, focal
- Fibrous dysplasia
- Ameloblastoma, desmoplastic type

Cemento-ossifying fibroma

	Our case	Cemento-ossifying fibroma
Gender	Female	Female
Age	17	20~40
Site	Left mandibular canine and premolar region	Mandibular premolar region
Symptom and Sign	Painful swelling	Painless swelling
Jaw expansion	+	+
Teeth displacement	+	+

Cemento-ossifying fibroma

Radiologic features

	Our case	Cemento-ossifying fibroma
Density	RO	RO
Border	Well-defined	Well-defined with corticated margin R/L rim is uncommon
Shape	Round	Ovoid or Round
Root divergence or resorption	+	+





Cemento-osseous dysplasia, focal

	Our case	Cemento-osseous dysplasia, focal
Gender	Female	Female
Age	17	30~60
Site	Left mandibular canine and premolar region	Jaw, especially posterior mandible
Symptom and Sign	Painful swelling	Painless
Jaw expansion	+	-

Cemento-osseous dysplasia, focal

Radiologic features

	Our case	Cemento-osseous dysplasia, focal
Density	RO	Mixed
Border	Well-defined	Well-defined with irregular border
Shape	Round	Unilocular
Root divergence or resorption	+	-





Fibrous dysplasia (monostotic)

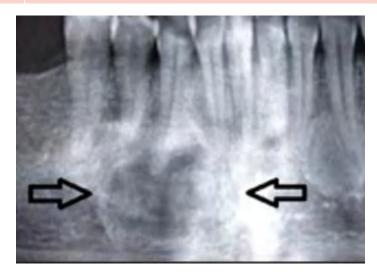
	Our case	Fibrous dysplasia (monostotic)
Gender	Female	Both
Age	17	10~20
Site	Left mandibular canine and premolar region	Maxilla
Symptom and Sign	Painful swelling	Painless swelling
Jaw expansion	+	+
Teeth displacement	+	Superior displacement
Hormone related	Unknown	+ (Do not progress beyond puberty)

Fibrous dysplasia (monostotic)

Radiologic features

	Our case	Fibrous dysplasia (monostotic)
Density	RO	Ground glass
Border	Well-defined	Poorly-defined
Shape	Round	Unilocular





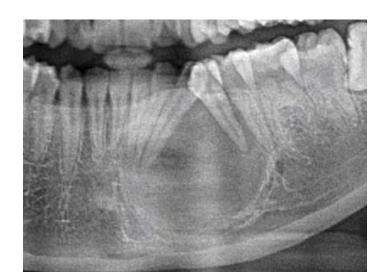
Ameloblastoma, desmoplastic type

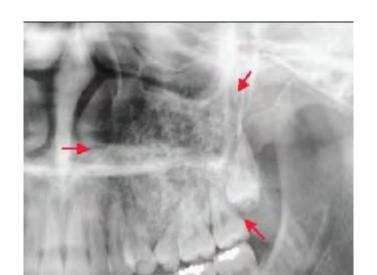
	Our case	Ameloblastoma, desmoplastic type
Gender	Female	No
Age	17	Wide age range Uncommon in 10-19
Site	Left mandibular canine and premolar region	Posterior mandible
Symptom and Sign	Painful swelling	Painless swelling
Jaw expansion	+	+
Teeth displacement	+	-

Ameloblastoma, desmoplastic type

Radiologic features

	Our case	Ameloblastoma, desmoplastic type
Density	RO	Mixed or RL
Border	Well-defined	Poor-defined
Shape	Round	Mutilocular
Root divergence or resorption	+	-





Clinical impression

© Cemento-ossifying fibroma over tooth 33, 34, 35 area

Treatment Course





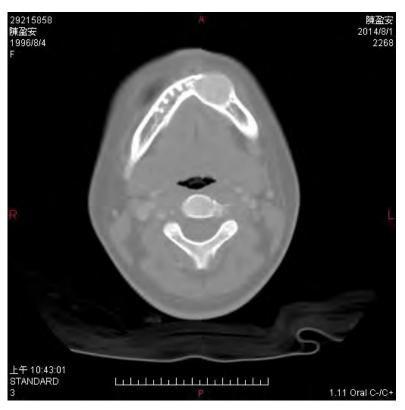
103/07/11(許瀚仁醫師)

- First visit
- Biopsy →H-P: cemento-ossifying fibroma
- 103/07/18
 - № OP scheduled on 103/08/13
 - Arrange CT
- 103/08/04
 - ∞ G.A routine
 - Ask for second opinion for mand. lesion

Image Finding — Oral CT

There is a bony labial and lingual bony expansion with radiopacity over the parasymphysis area (2.3x2.4x2.6 cm) with intact but thinning buccal and lingual cortex.



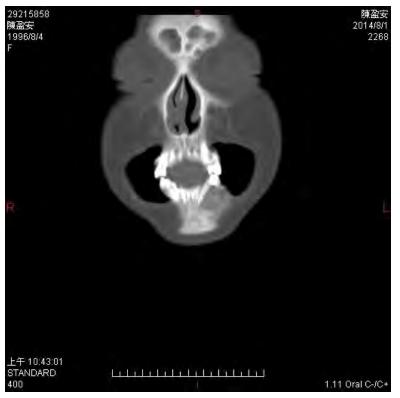


Axial view (bone window)

Image Finding — Oral CT

There is a bony labial and lingual bony expansion of the left mandibular body (2.3x2.4x2.6 cm) with intact cortex, and cause displacement of teeth





coronal view (bone window)

Image Finding — Chest PA (103.8.4)

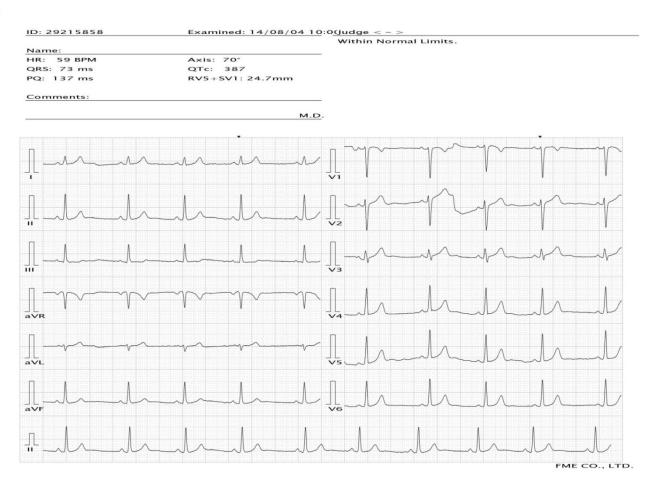
Impression:

No imaging evidence of active cardiopulmonary disease.



Image Finding — EKG(103.8.4)

EKG Diagnosis: Sinus Bradycardia



Histological Diagnosis

Pathologic diagnosis: cemento-ossifying fibroma, tooth 33,34,35 area

Imaging in the Diagnosis of

Cemento-ossifying Fibroma: A Case

Series





Introduction

- Benign fibro-osseous lesion
- Well-defined
- RL, RL/RO, RO
- Unilocular
- Origin of COF: periodontal membrane
- Clicinal: slow-growing mass, asymptomatic
- Mistology: contains cementum, immature bony trabeculae

- 32-year-old female
- Chief complain:

Swelling in the region of the upper front teeth for about 5 months

• Present illness:

This 32 y/o female suffered from swelling over frontal upper area for about 5 months. This lesion was asymptomatic and gradually increased in size.

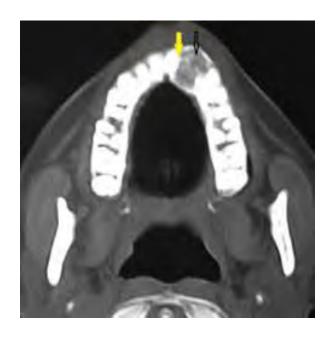
Oral examination:

A diffuse swelling in the region of teeth 21-23 on the labial aspect. The swelling was 4×3 cm in size and had bony expansion. Tooth 23 was displaced distally.

On palpation, the swelling was hard, non-tender, and was not fluctuant and compressible.

X-ray finding





- ✓ Well-defined unilocular RL/RO lesion (calcification)
- ✓ Left anterior maxillary region in relation to tooth 21,22
- ✓ Tooth 21 was displaced mesially and tooth 22 distally
- ✓ Bony expansion

- Middle-aged female
- Chief complaint:

Swelling on the right cheek for 6 months

Present illness

This middle-aged female suffered from swelling without pain on right cheek 6 months ago. This swelling gradually increased in size.

Oral examination

A diffuse swelling was on alveolar mucosa of tooth 13 to 16 buccal side. The surface of the lesion was smooth.

On palpitation, the swelling was found to be hard and non-tender.

Tooth 14,15 mobility, grade II

X-ray finding





- ✓ Well-defined lesion, scattered calcification and teeth within it
- ✓ On tooth 13 to 16 area, involving the floor of the maxillary sinus
- ✓ Bony expansion

- 52-year-old female patient
- Chief complaint:

Swelling over right posterior lower area for 6 months

• Present illness:

This 52 y/o female suffered from swelling without pain on right posterior lower area 6 months ago. This swelling gradually increased in size.

Oral examination:

A diffuse swelling measuring about 4×3 cm in size on tooth 44 to 47 buccal and lingual side with cortical plate expansion.

The swelling lacked tenderness, had a smooth surface, and was hard.

Tooth 45,47 mobility grade II

• X-ray finding:





- √ Well-defined RL/RO lesion on tooth 44 to 47 area
- ✓ Expansion of buccal and lingual cortical plates
- ✓ Tooth 45,47 displacement, and tooth 47 root resorption

Differential Diagnosis

- Ameloblastoma
- **SOCEOT**
- Odontogenic myxoma
- Cemento-ossifying fibroma
- Fibrous dysplasia

→cement-ossifying fibroma

Discussion: Cemento-Osssifying Fibroma

- Non-odontogenic tumor
 - Blast cells of mesenchymal tissue of periodontium
- Clinically
 - -30~40 y/o
 - Female > male
 - Mandibular premolar region
 - Slow growing
 - Asymptomatic

- \rightarrow our case (0/X)
- \rightarrow our case (0)
- \rightarrow our case (O/X)
- \rightarrow our case (0)
- \rightarrow our case (O/X)

Discussion: Cemento-osssifying fibroma

- Most reports suggest earlier trauma
 - \rightarrow Our case (X/O), case 3: tooth 46 extracted
- Well-defined RL,RL/RO,RO lesion with cortical margin
 - → Our case (0)

Discussion: Cemento-osssifying fibroma

- The important diagnostic feature in COF:
 - centrifugal growth, round tumor mass
- Root resorption, tooth displacement
 - → active proliferating stage

Discussion: Differential Diagnosis

- Fibrous dysplasia
 - Ground glass, linear expansion
- Cemento-osseous dysplasia
 - Bony expansion (-)
 - Multifocal
- Condensing osteitis
 - Vitality test
 - Bony expansion (-)

Discussion: Differential Diagnosis

- Pindborg's tumor (calcifying epithelial odontogenic tumor)
 - Impacted teeth
 - Scalloped margin
 - Driven snow in the radiograph
- Odontoma
 - Tooth-like structure

Conclusion

- Via conventional and specialized radiographs
 - Location
 - Expansion of cortical plates
 - Internal architecture
 - Periphery of the lesion
 - Effect of the lesion on adjacent structures
- Imaging also plays a pivotal role in outlining the treatment plan for cement-ossifying fibroma

醫學倫理討論



Tom Beauchamp & James Childress 醫學倫理七大原則

- · 生命的神聖性(Sanctity of life) : 尊重自己和他人生命,尊重生命的價值
- · 行善原則(Beneficence):醫師要盡其所能延長病人之生命且減輕病人之痛苦。
- · 誠信原則(Veractity):醫師對病人有「以誠信相對待」的義務。
- · 自主原則(Autonomy): 病患對自己之診療決定的自主權須得到 醫師的尊重。
- · 不傷害原則(Nonmaleficence):醫師要盡其所能避免病人承受不必要的身心傷害。
- · 保密原則(Confidentiality):醫師對病人的病情負有保密的責任。
- · 公義原則(Justice) : 醫師在面對有限的醫療資源時,應以社會公平、正義的考量來協助合理分配此醫療資源給真正最需要它的人。

行善原則

- 病人接受enucleation後是否緩解疼痛(主訴)情形?
 - ▶Enucleation後疼痛已較為緩解,並告知病人加強oral hygiene,以獲得更好的woung healing

誠信原則

- 對於病人的疾病是否確實通知,盡到告知的義務?
- 是否有清楚的向病人說明清楚治療計畫、預後、風險?
 - ▶病人於初診當日做切片檢查,一周後告知切片結果,詳細說明治療計畫 (enucleation under GA)、預後、風險 (併發症:嘔吐、喉嚨痛、腫脹等)並取得病人及家屬同意後才進行手術。

自主原則

- 當醫師充分說明病情及治療計畫、風險之後,是否讓病人 充分自主地選擇治療計畫?
 - ▶病人及家屬選擇並同意醫師的建議。
- 在做全身麻醉以前,是否有說明完整之後再請病人自主的 簽名同意?
 - 一已充分說明並與家屬溝通,簽署麻醉及手術同意書後才進行手術。

不傷害原則

- 手術過程中是否造成不必要醫源性傷害?
 - ▶沒有不必要醫源性傷害。
- 是否有先完整瞭解病人的病史?
 - ▶初診時詢問並確認病人無特殊病史、系統性疾病,和病人充分溝通後再決定治療方式及術後照顧。

保密原則

- ⋒ 無論病人之門診病歷、手術記錄、住院記錄等皆涉及病人之隱私權,醫療工作者應善盡保密原則,不得任意洩漏,發生「病歷外流」之情形,以避免引起醫療糾紛。
- ≈ 告知病人之病情時應以本人為原則,病人未明示反對時, 亦得告知其配偶與親屬。以本case為例:除告知本人病情 外,也一併告知病人家屬。

公義原則

本 case經病理切片檢查為cemento-ossifying fibroma,治療方式為surgical excision,本case採用enucleation的方式清除病灶,使復發率降到最低。

醫學倫理總結

- ⋒ 病史詢問、主訴、病灶描述(X-ray、切片檢查)治療計畫等應確實記錄。以呈現完整的治療結果。
- ☎ 在進行手術等具侵犯性治療前,須請病人簽屬同意書,並 詳細說明術後可能併發症及預後、術後衛教等。手術過程 避免造成不必要醫原性傷害。
- ∞ 不得任意洩漏病人病歷及其相關紀錄。

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Thank you for your attention



