

口腔病理及影像診斷科

Case Report

報告組別：Intern Group A

報告日期：101.09.24

指導醫師：林立民醫師、陳玉昆醫師、
王文岑醫師、陳靜怡醫師

組員：蕭維榮、梁鋸潔、黃冠倫、柳懷禧

General Data

- ▶ Name: XXX
- ▶ Sex: Female
- ▶ Age: 25 y/o
- ▶ Native: 台灣
- ▶ Marital status: 未婚
- ▶ Attending V.S.: XXX醫師
- ▶ First visit: XXX.XX.XX

Chief Complaint

- ▶ Referred from LDC because of a radiolucent image over left mandible was found during routine oral examination

Present Illness

- ▶ 03/30/2005 (in XXXXH.)
 - Ameloblastoma s/p cystic enucleation under GA
 - Left inferior alveolar nerve had been sacrificed
- ▶ 04/2005 to 10/2010 (in XXXXH.)
 - Kept f/u
 - A RL image over the same site appeared again during this time,
 - but the doctor decided to keep f/u
 - Moved to Kaohsiung on 10/2010, and then lost f/u
- ▶ 06/05/2012
 - Referred from LDC, taking panorex and CT scan
 - CT report: suspected recurrent ameloblastoma
 - Arranged OP on 09/17/2012

Past History

▶ Past Medical History

- Hospitalization: (+), ameloblastoma over left ramus s/p cystic enucleation + complicated odontectomy of tooth 38
- Surgery under GA: (+), as above
- Systemic diseases: denied
- Drug or food allergy: denied

▶ Past Dental History


- General routine dental treatment

▶ Attitude to dental treatment: Cooperative

Personal History

- ▶ Risk factors related to malignancy
 - Alcohol: (-)
 - Betel quid: (-)
 - Cigarette: (-)
- ▶ Other specific oral habits : Denied
- ▶ Bite irritation : Denied

Dental examination

- ▶ Missing: Tooth 28 35 38 48
 - ▶ C&B: Tooth 11 21 22
 - ▶ Restorations: Tooth 14 15 17 25 26 45 47
 - ▶ Caries: Tooth 36 37
 - ▶ MMO: 40mm (Tooth 11 to 41)
- 

Intraoral findings

- Site: L't mandible
- Size: 3.0 x 3.0 cm
- Shape: Dome
- Color: Normal-mucosa
- Consistency: Bony hard
- Pain: (-)
- Tenderness: (-)
- Lip numbness: (+), left, due to previous surgery
- Tooth mobility: tooth 35 (-), 36 (-), 37 (-)
- Bone expansion: (+), buccolingual direction over left mandible



Panorex taking



- ▶ There is a well-defined multilocular round-shaped radiolucency with sclerotic margin over left mandible, extending from root apex of 35 to inferior border of cortex of left ascending ramus and from 0.5cm inferior to sigmoid notch down to the inferior border of cortex of left mandible, measuring 7.0x5.5cm in size. Bone expansion over left retromolar area is noted. Left alveolar canal was not visible due to previous surgery. Left inferior cortical margin still intact. Non-vital tooth 35, 36, 37 is noted in contact with the lesion without root resorption.

Differential Diagnosis



Peripheral or intrabony ?

- ▶ Left lower posterior area
- ▶ 3.0 X 3.0 cm, dome shape, bony hard consistency, normal mucosa color
- ▶ Tenderness (-)
- ▶ Pain(-)
- ▶ Lip numbness (+)
- ▶ Bone expansion (+)



Peripheral or intrabony ?

- ▶ Multilocular radiolucency with bony destruction
→ Intrabony lesion



Peripheral or Intrabony?

	Our case	Peripheral	<Intrabony>
Mucosal lesion	-	+	-
Induration	-	+	-
Bony expansion	+	-	+/-
Cortical bone destruction	+	-	+/-

→ Intrabony

Inflammation, cyst, neoplasm?

	Our case	Inflammation
Redness	-	+
Swelling	+	+
Local heat	Unknown	+
Pain	-	+

Due to panorex finding : large multilocular RL
destruction lesion → cyst or neoplasm

cyst,neoplasm?

	Our case	Cyst
Fluctuation	-	+-
Well + defined border	+	+
Bone expansion	+	+-


	Our case	Inflammation cyst	Non-inflammation cyst
Pain, tenderness	-	+	-
Local heat	Unknown	+	-
Color	Pink	reddish	pink
Progression	slow	fast	slow
Sclerotic margin	+	-	+

cyst,neoplasm?

	Our case	Benign	Malignance
Border	Well-defined	Well-defined	Ill-defined
Margin	Smooth	Smooth	Irregular
Sclerotic margin	+	+	-
Destruction of cortical margin	+	--+	+
progressive	Slow	Slow	Fast
Swelling with intact epithelium	+	+	-
Pain	-	-	+
Induration	-	-	+

→ Non-Inflammation cyst or Benign tumor

Working Diagnosis

- (1) Ameloblastoma
 - (2) Keratocystic odontogenic tumor
 - (3) Odontogenic myxoma
 - (4) Central giant cell granuloma
- 

Ameloblastoma

	Our case	Ameloblastoma
Gender	Female	Equal
Age	25	30~70
Site	Mandible (molar→ascending ramus)	Mandible (molar→ascending ramus)
Paresthesia	-	uncommon
Awelling	+	+
Drainage	-	+
Shape	Well-defined, smooth, soap bubble multilocular, corticated margin	Well-defined, smooth, honeycomb multilocular, corticated margin
Bony expansion	+	+
Teeth displacement /root resorption	+	+
Duration	Slow	Slow

Keratocystic odontogenic tumor

	Our case	KCOT(larger)
Gender	Female	Slight male
Age	25	10~40
Site	Mandible (molar→ascending ramus)	Mandible (posterior body and ascending ramus)
Paresthesia	-	pain
Swelling	+	+
Drainage	-	+
Shape	Well-defined, smooth, soap bubble multilocular, corticated margin	Well-defined, smooth, multilocular, corticated margin
Bony expansion	+	-
Teeth displacement /root resorption	+	+
Duration	Slow	Slow

Odontogenic myxoma

	Our case	Odontogenic myxoma
Gender	Female	Slight female
Age	25	10~50 (mean 25~30)
Site	Mandible (molar → ascending ramus)	Max.:Mand.=3:4 or 3:7 (tooth-bearing areas)
Paresthesia	-	-
Swelling	+	-
Drainage	-	-
Shape	Well-defined ,smooth, soap bubble multilocular, corticated margin	Often well-defined, unilocular or multilocular, may with corticated margin
Bony expansion	+	+
Teeth displacement /root resorption	+	+
Duration	Slow	Slow

Central giant cell granuloma

	Our case	Nonaggressive (most)	Aggressive
Gender	Female	Female	
Age	25	<30	
Site	Mandible (molar→ascending ramus)	Mandible (anterior region) frequently cross the midline	
Paresthesia	-	-	Pain
Swelling	+	-	+
Drainage	-	-	-
Shape	Well-defined, smooth, soap bubble multilocular, corticated margin	Well-defined, unilocular or multilocular, noncorticated margin	
Bony expansion	+	-	+
Teeth displacement/root resorption	+	-	+
Duration	Slow	Slow	Rapid

Clinical Impression

- ▶ Recurrent ameloblastoma over left mandible and ramus

Treatment course

Treatment course

- ▶ 2005~2010
 - ✓ Received treatment in XXXXH.
- ▶ 101/06/05
 - ✓ Discomfort over 36 37 region for 4-5 days
 - Clinical examination
 - Panorex taking
- ▶ 101/06/29
 - ✓ Ask for treatment of left mandible lesion
 - Arrange for CT scan
 - Check CBC, WBC, Urea N, Creatinine



Treatment course

- ▶ 101/07/20
 - ✓ Ask for CT report
 - ✓ Left cheek mild swelling
- ▶ 101/09/07
 - ✓ Treatment plan of left mandible ameloblastoma was made sure
 - ✓ Panorex taking
- ▶ 101/09/11
 - ✓ Treatment plan of left mandible ameloblastoma and GA routine was made sure

Image finding – CT (Axial view)

- ▶ A multilocular cystic lesion (7.0x5.5x3.0 cm) with bony expansion at left mandibular body.
- ▶ DDx: ameloblastoma, keratocystic odontogenic tumor

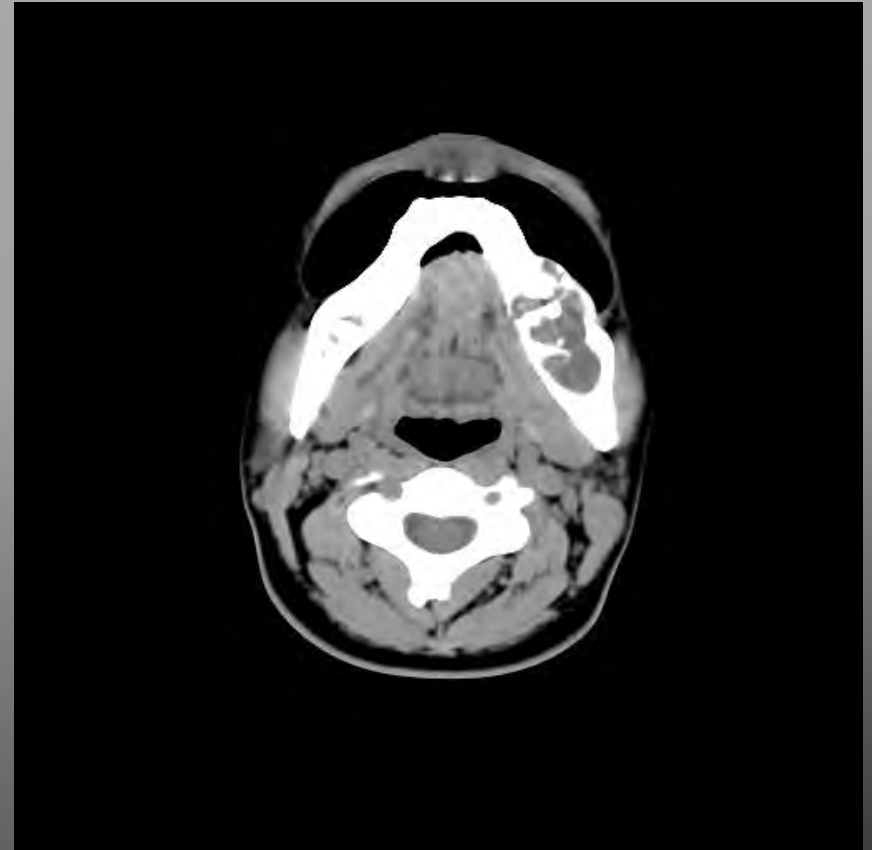


Image finding – CT (Coronal view)

- ▶ A multilocular cystic lesion (7.0x5.5x3.0cm) with cortical breakthrough at left mandibular ramus.
- ▶ DDx: ameloblastoma, keratocystic odontogenic tumor.
- ▶ Recommend clinical correlation.



Panorex taking



101/06/05



101/09/07

Enlargement of the lesion(8.0x6.0cm) and more bony destruction could be seen on X-ray. Tooth 33 and 34 are involved in the lesion, without root resorption. The lesion expanded nearer to sigmoid notch and inferior border of cortex of left ascending ramus.

GA routine

- ▶ EKG
- ▶ CBC
- ▶ Urine routine examination
- ▶ Glucose
- ▶ Blood test: GOT, GPT, UN, CRTN, Na, K, Cl, GGT, Prothrombin time, Partial thromboplastin time
- ▶ Chest PA
- ▶ B型肝炎E抗原檢查-酵素免疫
- ▶ B型肝炎表面抗原檢查-酵素免疫
- ▶ C型肝炎病毒抗體

Treatment course

▶ 101/09/15

- ✓ Admission

- ✓ OP on 101/09/17

▶ 101/09/16

- ✓ Pre-operation :

1. Consult anesthesia department and ENT department
2. Full mouth scaling
3. Require patient NPO since midnight the day before surgery

- ✓ Reconstruction plate fabrication

Treatment course

- ▶ 101/09/17 (The day of operation)
 - ✓ General condition : fair
 - ✓ Operation :
 1. Marginal Resection
 2. Cystic enucleation
 3. Curettage
 4. IMF

Treatment course

- ▶ 101/09/18
 - ✓ Throat pain after operation
 - ✓ Facial swelling over left cheek
 - ✓ Post-op panorex taking
 - ✓ Check lab data (higher WBC CRP, lower RBC Hgb Hct)
 - ✓ Check wound condition
 - ✓ Removal of NG tube
 - ✓ Oral irrigation for oral hygiene control

Panorex taking



101/09/18

Lesion removed and extraction of tooth 33, 34, 35, 36, 37.

Cortex of left mandible body and ramus remain intact, and the lesion near inferior border of left cortex and near sigmoid notch was noted remained. Splinting of teeth 16 to 25, and 32 to 46 were noted. A radiopacity in left ascending ramus was noted, suspect as a foreign body

Treatment course

- ▶ 101/9/19-9/23
 - Oral irrigation everyday
 - Keep follow-up for general condition(stable)
 - No special complaint

Treatment course

- ▶ 101/9/23
 - Discharged from hospital
 - Keep f/u in OPD
 - Remove suture s/p 2 weeks in OPD
 - Follow and pending post-OP H-P report

Discussion

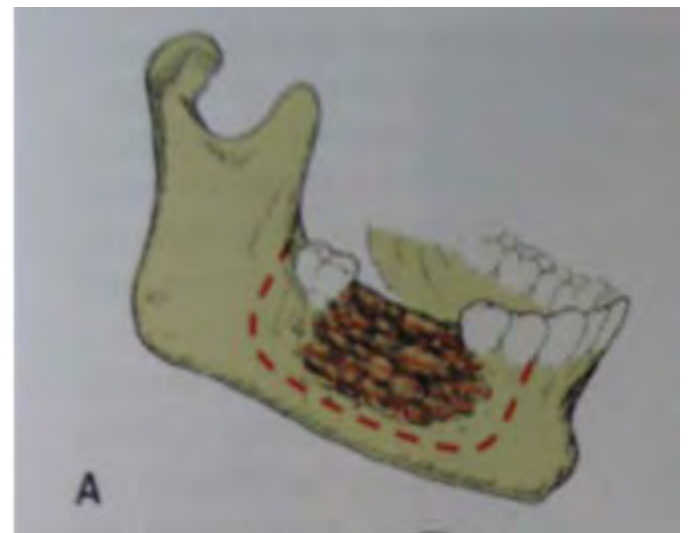


Enucleation and/or curettage


- ▶ Local removal of tumor by instrumentation in direct contact with the lesion
- ▶ Used for very benign types of lesion

Marginal Resection

- ▶ Resection: Removal of a tumor by incising through uninvolved tissues around the tumor, thus delivering the tumor without direct contact during instrumentation
- ▶ Marginal resection: Resection of a tumor without disruption of the continuity of the bone



Indication

- ▶ Lesion is known to be aggressive
 - ▶ When total removal by enucleation, curettage, or both would be difficult
- 

Technique


- ▶ Lesion and 1-cm bony margins
- ▶ Full thickness mucoperiosteal flap
- ▶ Section the bone and remove segment
- ▶ If tumor perforated the cortical plate
 - sacrifice soft tissue to eradicate tumor

醫學倫理與全人照護

醫學倫理與全人照護

- ▶ 醫學倫理：一種道德思考、判斷和決策，以倫理學的觀點出發，以期能做出對病人最有利益、最能符合道德倫理規範的醫療決策
- ▶ 醫病關係的轉變：醫師中心模式轉變為病人中心模式 (physician-centered model → patient-centered model)

醫學倫理原則

- ▶ 由Tom Beauchamp & James Childress在1979提出
 - ▶ 自主原則(Autonomy)
 - ▶ 不傷害原則(Non-maleficence)
 - ▶ 行善原則(Beneficence)
 - ▶ 公義原則(Justice)
- 

臨床案例討論

▶病人已了解自己的病狀，治療方法(f/u，手術)復發的可能性，併發症(如病人第一次在慈濟開刀時移除掉IAN等)

→自主原則(Autonomy)

▶在發病的第一次(2005年)選擇開刀，在2006年病人隨著醫師的建議選擇長期觀察，在2012年病人選擇做第二次的手術。

→自主原則(Autonomy)

臨床案例討論

- ▶ 病人的症狀包含了大部分的**left mandible**. 第一線治療牙科醫師選擇**En bloc resection**並使用**reconstruction plate**來重建. 並且這樣大範圍的切除是必要的.
 - **行善原則(Beneficence)**: 預防傷害：應該預防傷害或惡行, 移除傷害：應該移除傷害或惡行
- ▶ 考慮到病人是年紀**26**歲的女生，到外觀會是影響病人心理的因素，並可選擇保守性的手術切除範圍（只移除掉有病狀的**bone** 留下一小部分來維持外觀）
 - **不傷害原則(Non-maleficence)**
 - **自主原則(Autonomy)**
 - **行善原則(Beneficence)**: 利益和福祉

臨床案例討論

- ▶ 因中途改變手術計畫，因此沒有用到reconstruction plate
→ 公義原則(Justice)
- ▶ 並且還有可能會有bone fracture加上復發時再開刀而用到的資源和人力
→ 公義原則(Justice)

最後，整個治療過程不只是關心到病人的身體上的病狀，也包含病人生活上的品質與心理上的照顧，符合全人照顧的考量

總述

經過執行的**Treatment course**可檢討到:

- ▶讓病人了解症狀的嚴重性，並持續的**f/u**，可能會減少到手術範圍
- ▶在**2012年6月**發現症狀時，應緊急治療減少手術範圍，也可以多保留一些牙齒。
- ▶雖然是爲了滿足自主原則，但應該要讓病人早日接受事實並把整個**left mandible**移除，並預防與減少**recurrence**的機率

Thanks for your attention!

