下顎骨齒源性透明細胞癌 Clear Cell Odontogenic Carcinoma of Mandible



中國醫藥大學附設醫院 口腔顎面外科

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Basic Data

Name: 葉賴XX

Gender: female

Age: 70 y/o

初診日期:2009.06.19

Chief complaint

➤ Referred from another hospital for evaluation of the mandible lesion.

Systemic disease: HTN under medical control

Present Illness

 2002 Received enucleation surgery for the left mandible lesion at another hospital.

Pathologic report: Ameloblastoma

→ Clear cell odontogenic carcinoma

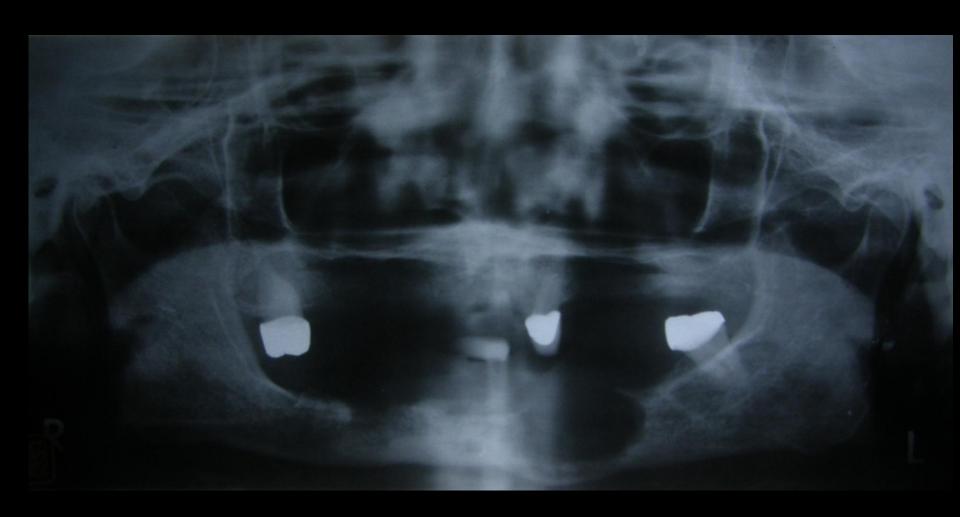
Without regular follow up

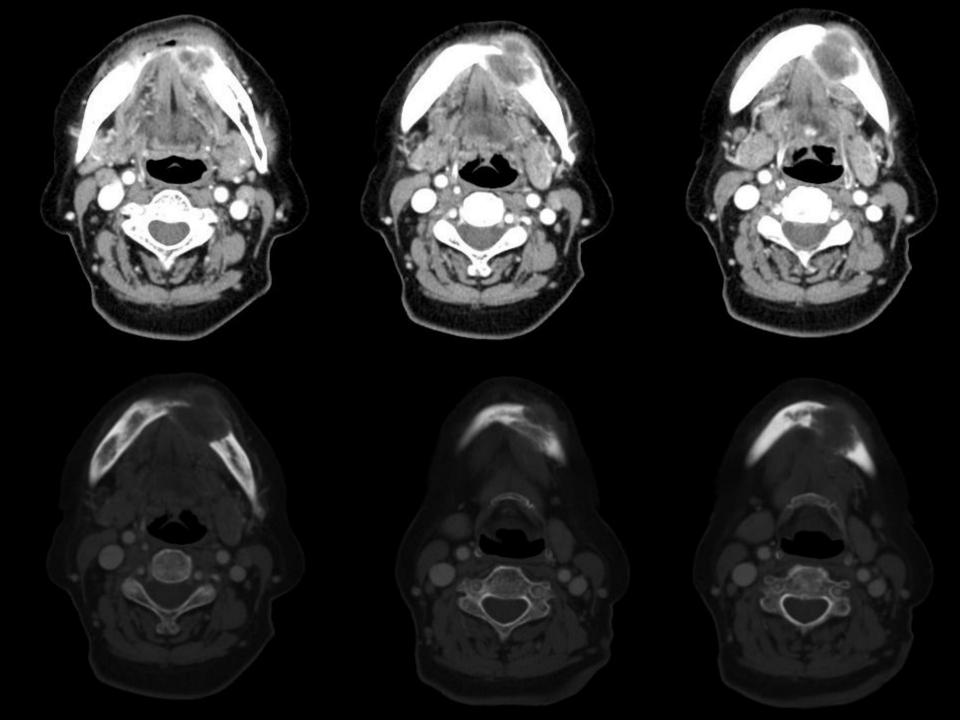
2009/05 Swelling at the same area

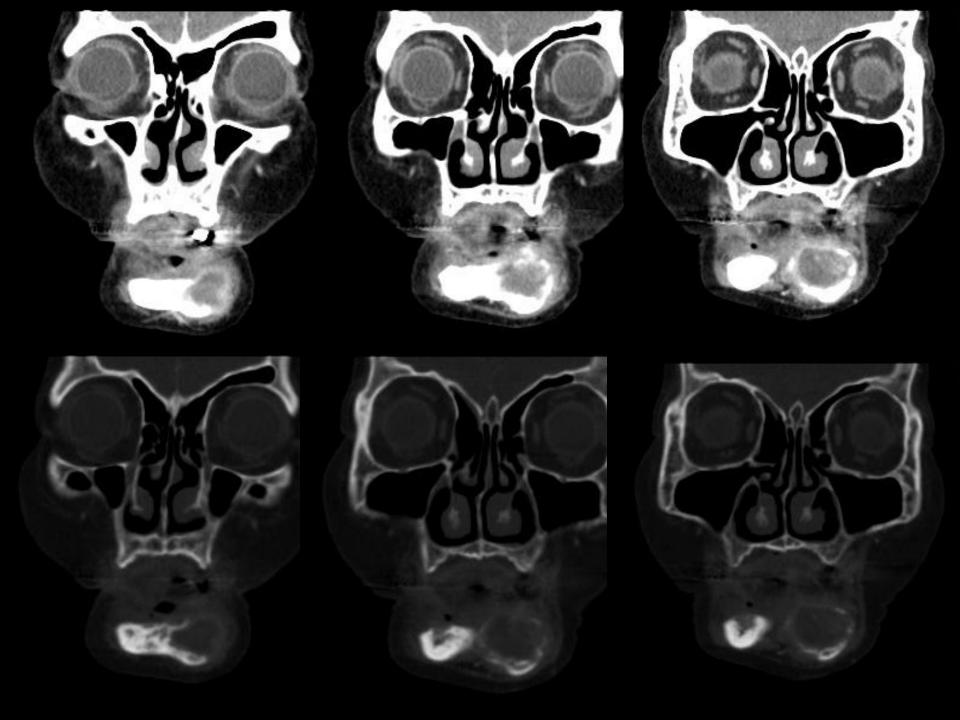
Physical Examination

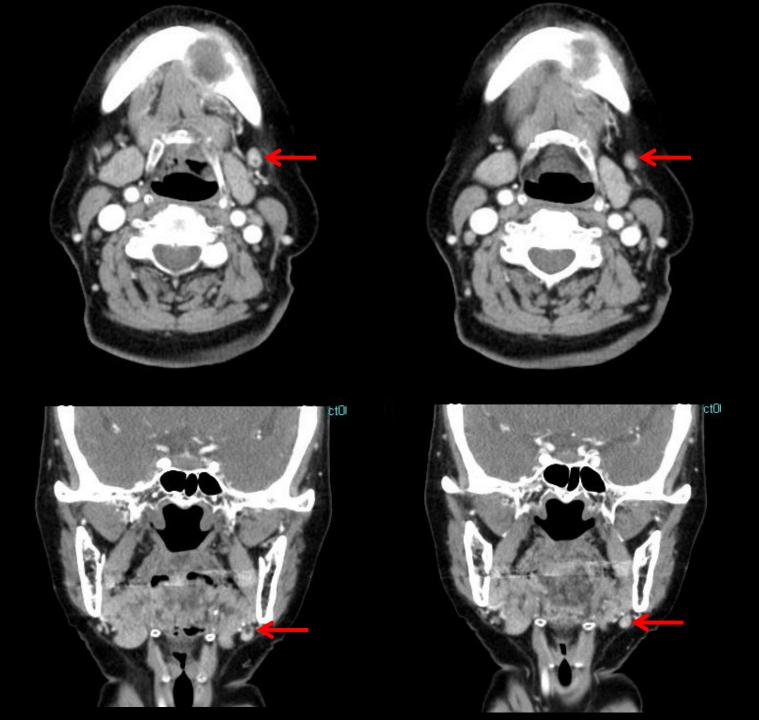


Radiographic Findings

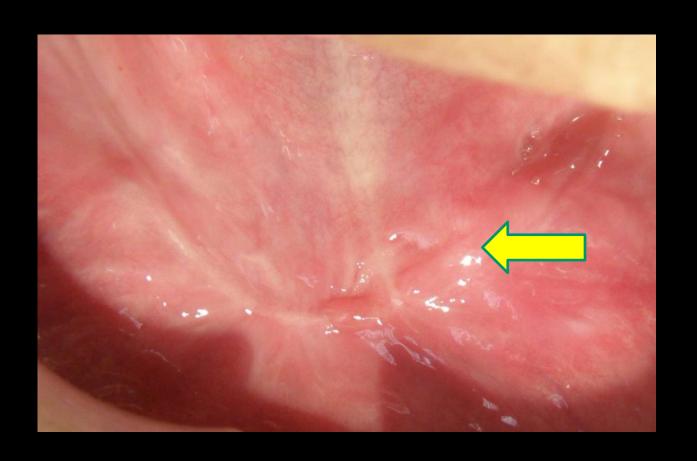


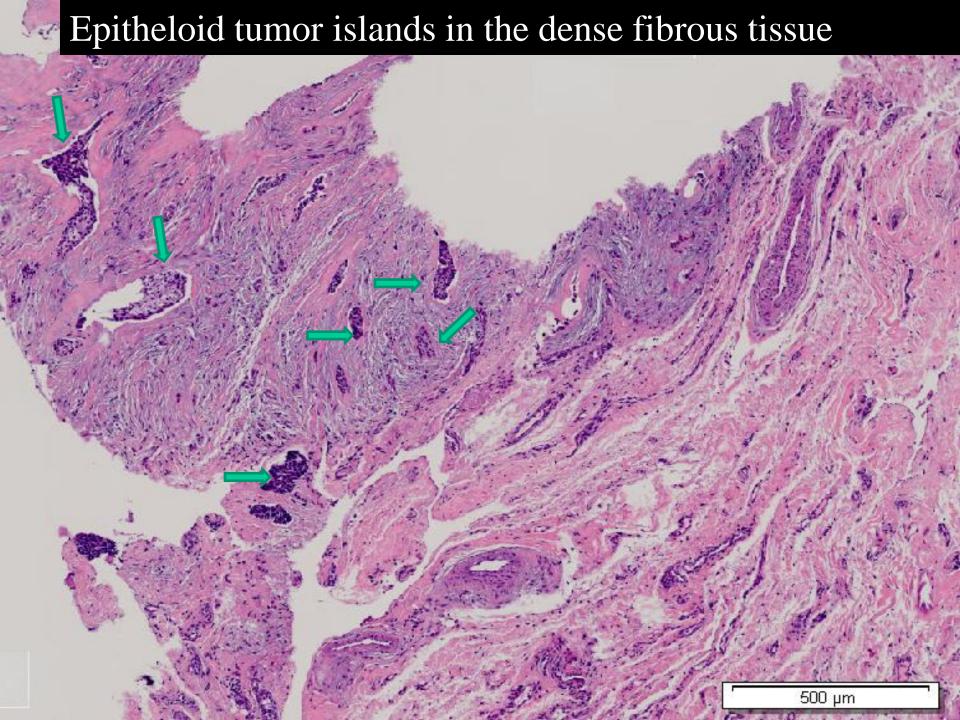


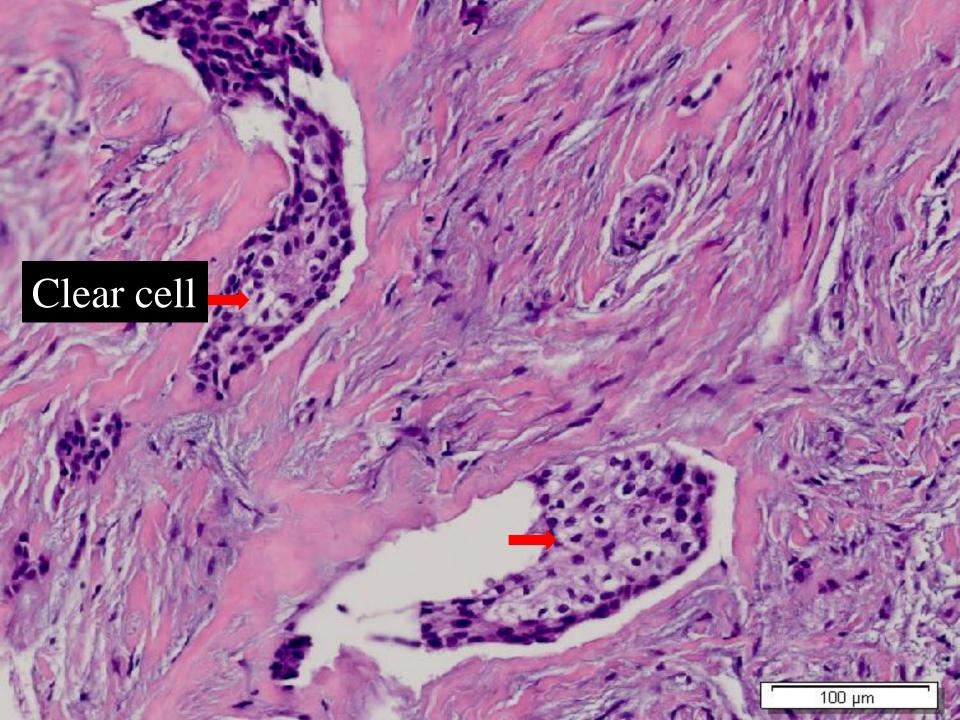


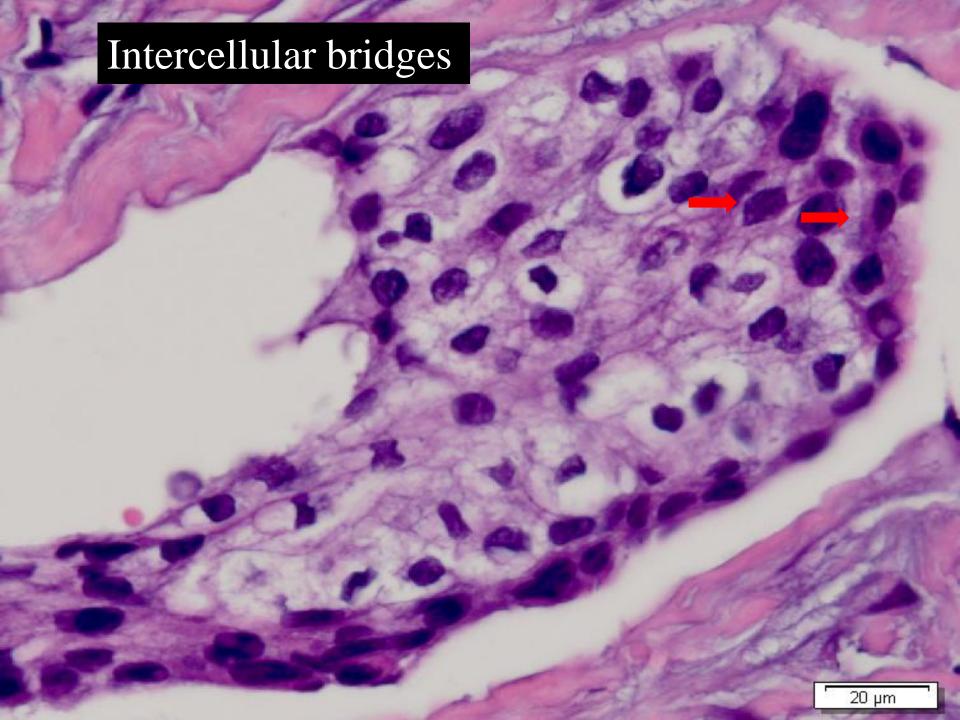


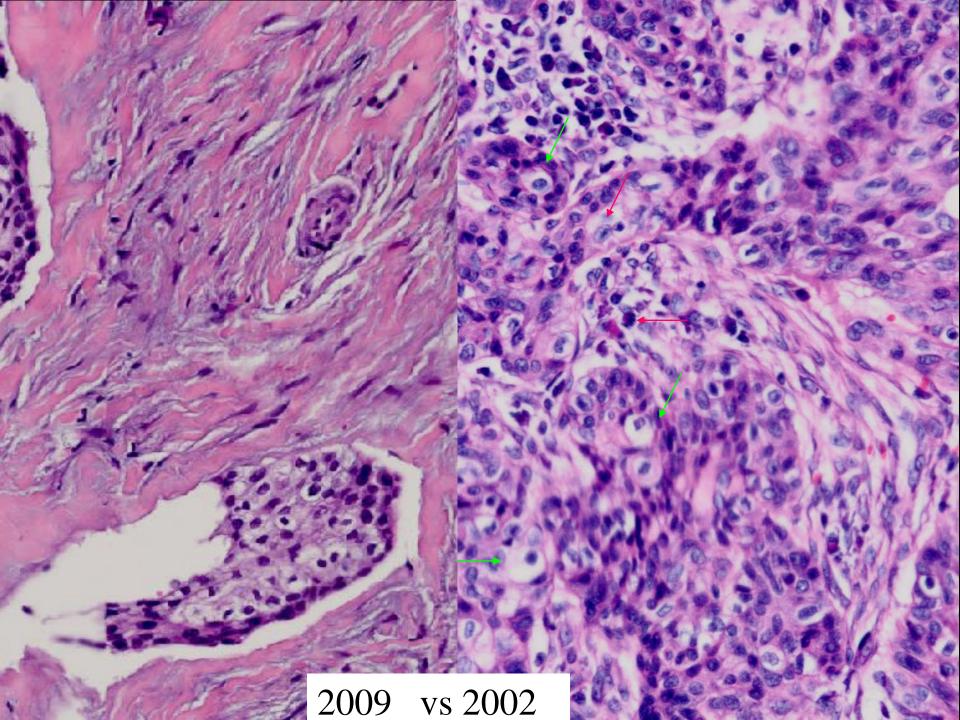
Incision Biopsy













Clinical impression: clear cell odontogenic carcinoma

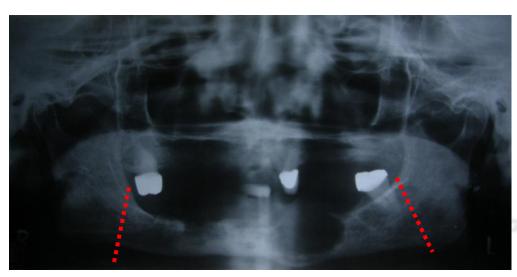
- Treatment Plan
 - Segmental mandibulectomy (from left angle to right angle area)
 - L't Neck dissection (SOHND)
 - Reconstruction with ALT flap and reconstruction plate.

Surgical Procedure

Left neck supraomohyoid dissection

Through lip splitting approach

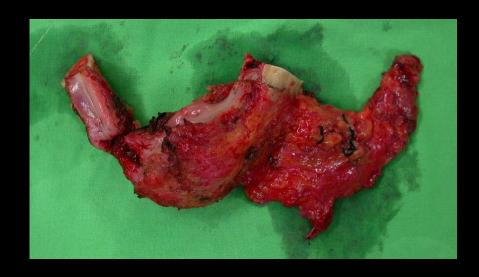
Composite resection of the main tumor with neck lymph adipose tissue in one piece.

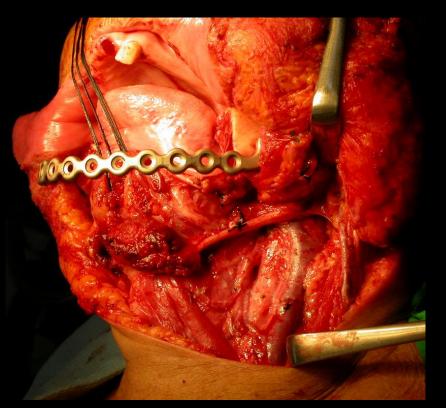


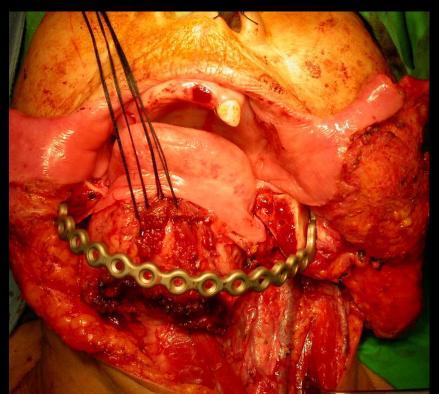


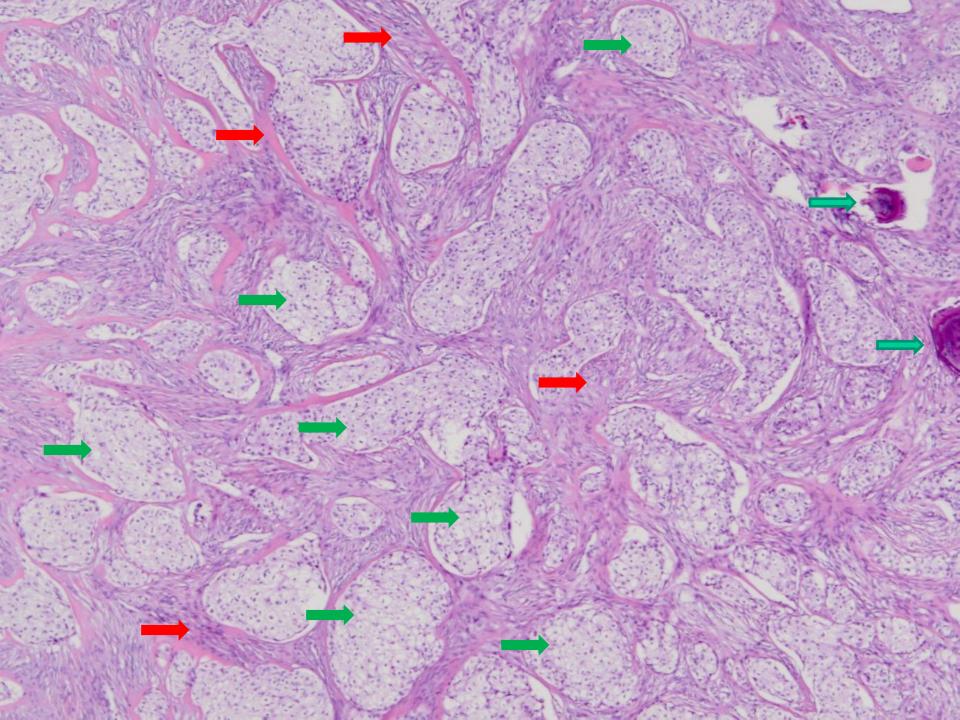


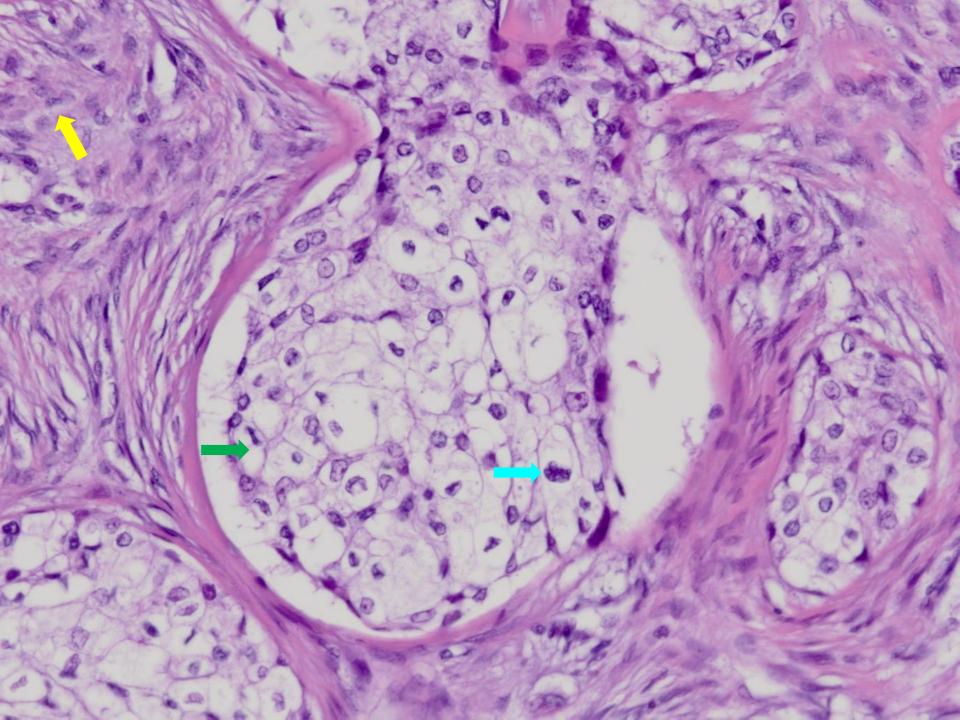












Surgical Pathology

- Main tumor:
- ➤ Clear cell odontogenic carcinoma (CCOC)
- No definite lymphovascular permeation nor perineural invasion
- Surgical margin:
 - 1.soft tissue, peri-mandibular, left, wide excision, invaded by clear cell odontogenic carcinoma.
 - 2.Mandible bone, bilateral, wide excision, free of tumor invasion.

Surgical Pathology

- ◆ Neck lymph node:
 - \triangleright Level I negative for malignancy (0/5).
 - \triangleright Level II negative for malignancy (0/14).
 - ➤ Level III— negative for malignancy (o/2).

Major salivary gland, submandibular, left, free of tumor invasion.

Treatment Course

2009/07/14 Admission

2009/07/15 Surgery

2009/07/15 ~ 2009/07/23 ICU care

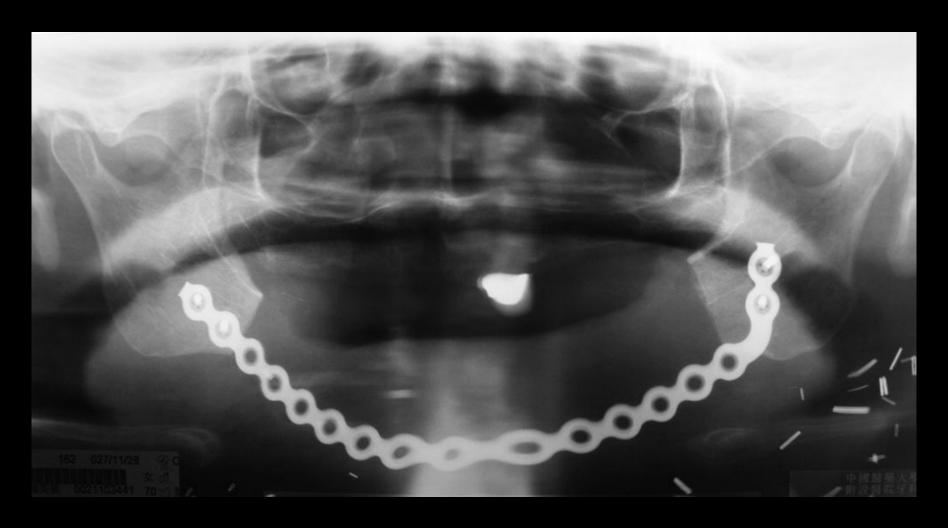
2009/07/29 Discharge

2009/08/28 ~ 2009/10/13

Started adjuvant radiotherapy

6 MV X-ray with IMRT technique

(TD:5940 cGy/33 fr)



Post-op 1 week 2009/07/27





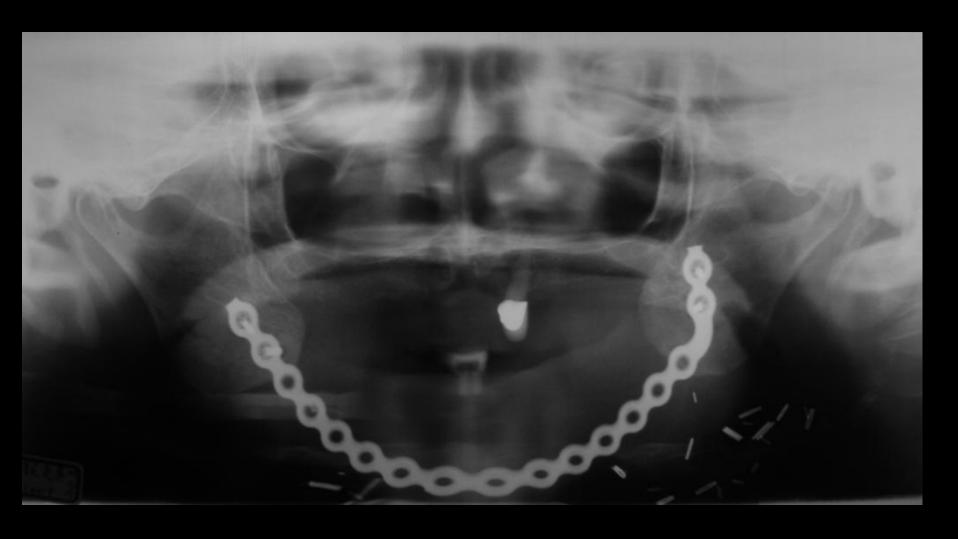
Post-op 2 months 2009/09/11







Post-op 2 months 2009/09/11



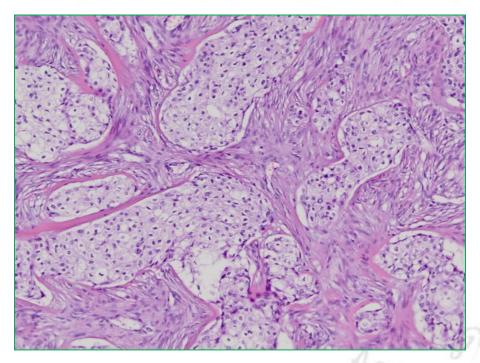
Post-op 8 months 2010/03/05



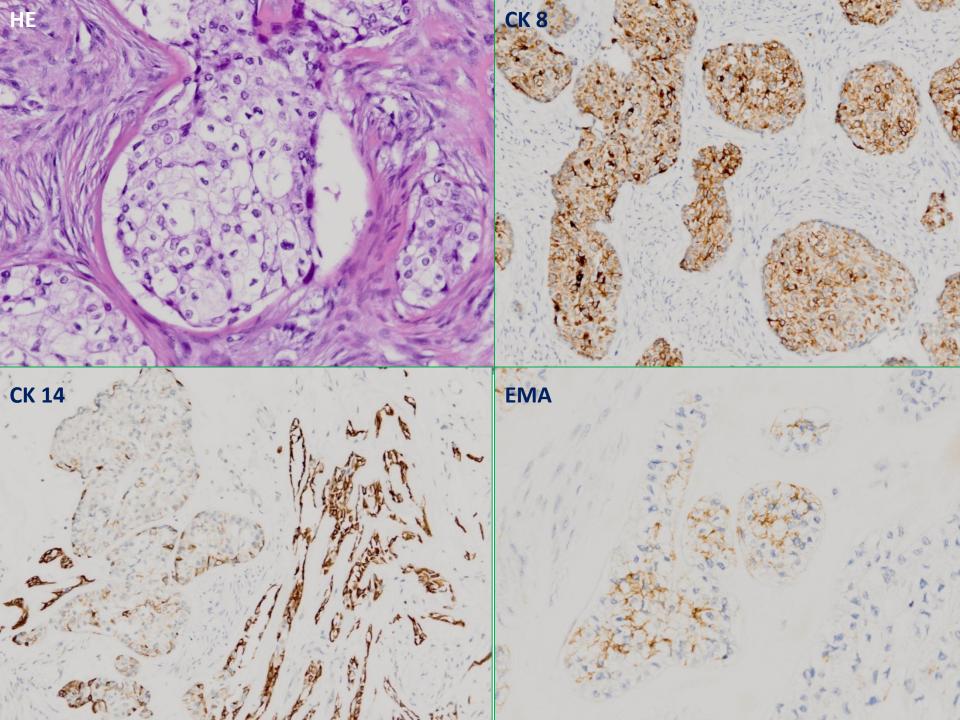
Clinical Characteristics

Characteristics	No. of patients (%)
Sex ratio	3:1 (Female)
Mean age	57.8
Site of lesion	
Mandible	36/43 (84)
Maxilla	7/43 (16)
Erosion of bone	40/40 (100)
Soft tissue involvement	15/25 (60)





- ✓ Composed of irregular sheets of neoplastic epithelial islands immersed in a richly cellular, collagenous stroma
- ✓ Tumor nests are almost entirely composed of clear cells



		of CCOC	
Cytokeratin	CK8: clear cells CK 14: eosinophilic cells	+	+
EMA	Clear, eosinophilic, duct-like structures	+	+
S-100	Dendritic cells	-	-
Vimentin	Stromal components		_

WHO

classification

Our

Case

Cellular types

Salivary gland tumors

involved

Findings

Mucin

PAS Intracytoplasmic glycogen

Modified from: Werle et al. Clear-Cell Odontogenic Carcinoma. J Oral Maxillofac Surg 2009; Calo et al. CCOC:case report with immunohistochemical findings OSurgOMedO PathORadiolEndod 2008



Metastasis	No. of patients (%)
Overall	10/40 (25)
Distant	6/40 (15)
Outcomes	
Alive with no disease	26/36 (72)
Alive with disease	2/36 (6)
Dead of disease	6/36 (17)
Recurrent disease	21/38 (55)
Local only	12/38 (32)
Local and LNM	7/38 (18)
LNM	2/38 (5)

Initial treatment	Recurrence Rate
Curettage/enucleation alone	8/10 (80)
Resection alone	11/23 (43)
Resection with LND	0/2 (0)
Resection with XRT	1/3 (33)
Resection, LND, and XRT	0/1 (0)

Chemotherapy alone

Treatment strategies

- 1. Surgical control of CCOC with an en bloc resection of bone and any soft tissue involvement decreases the risk of recurrence
 - -- The importance of free surgical margin
- 2. A regional lymph node dissection can be performed for staging and treatment of regional disease
- 3. With adjuvant radiation therapy
- 4. Long term surveillance

