

Dr. David Doctor  
Dental Offices  
411 Street, Suite #210  
Somewhere, Texas 77777

**RE: Sample Patient**  
DOB: 5/12/95

December 3, 2008

Dear David,

The temporomandibular joints (TMJs), jaws, teeth and adjacent areas were imaged with a Cone Beam volume scan reformatted in the sagittal, axial and coronal planes on November 13, 2008. Clinical request and findings → "Orthodontic Evaluation and area 37 (cyst?)"

**OBSERVATIONS:** The osseous components of the TMJs were smooth, rounded and without evidence of subchondral defects. When the mandible was in the closed position (teeth not in occlusion) the right condyle was slightly posterior to the center of its fossa and the left condyle was nearly centered.

**ADDITIONAL OBSERVATIONS:**

**UNERUPTED TEETH:** #s 18,28,38 and 48.

**IMPACTED TOOTH;** Tooth # 37 was a mesioangular impaction. The mesial marginal ridge of tooth # 37 was contacting the CEJ of tooth #36.

**MANDIBLE:** A circular shaped radiolucent lesion was located buccal to the mesial root and furcation of tooth # 37. The margins of the lesion were well defined, regular and partially corticated. The expansile lesion has caused endosteal resorption of buccal cortex and lingual displacement of the roots of tooth # 37. An intact periodontal ligament space was noted around the roots of tooth # 37.

**SINUSES:** No abnormalities noted.

**IMPRESSIONS:** The structure and morphology of the osseous components of the TMJs were evaluated and the findings noted above were consistent with normal.

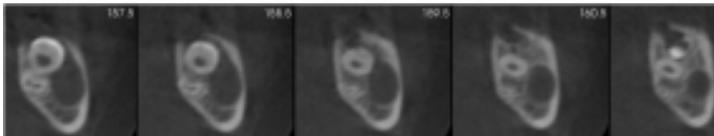
A radiolucent lesion, consistent with a **buccal bifurcation cyst** (aka, paradontal cyst), was noted along the buccal surface of tooth # 37. The epithelial cells are thought to be from the periodontal membrane of the buccal bifurcation of mandibular molars. The World Health Organization includes these cysts under inflammatory cysts. The management is usually removal by conservative curettage.

Sincerely,  
David Radiologist  
Oral & Maxillofacial Radiologist

**RE: Sample Patient**

---

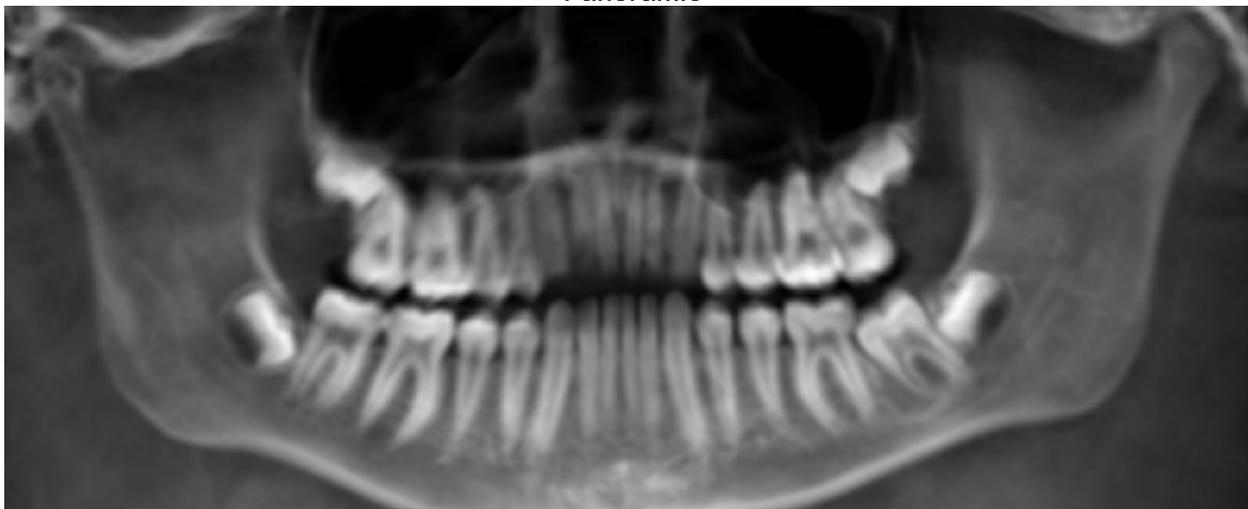
**Left x section # 37**



**Lucent lesion buccal to # 37  
Displaced roots to lingual**

---

**Panoramic**



**Unerupted 3<sup>rd</sup> molars  
Impacted # 37  
Lucent lesion superimposed over mesial root and furcation of #37.**