

Patient Name:	Patient Patient	Report Date:	04/18/2024
DOB:	04/01/1950	Scan Date:	04/01/2024
Gender:	Male	Requesting Doctor:	Doctor Doctor
Study Purpose:	Pathology	Submitting Group:	Doctor's Practice
Clinical Notes:	A 77yr old male patient with no history of radiation to head & neck, no bisphosphonates, no long term steroids with symptomatic lesion on anterior lingual mandible.		

Radiographic Technique: Maxillofacial CBCT extending from the sphenoid sinuses to C3. Multiplanar reformations were carried out at the work station. Scan is acquired in closed occlusion.

OBSERVATIONS

Dentoalveolar: Dental findings: Teeth Present: 1-32. 32 is horizontally impacted. The pattern of bone loss surrounding 17 is suggestive of chronic pericoronitis; please correlate with clinical findings. Generalized mild periodontal bone loss is noted. Please correlate with clinical findings to rule out active periodontal disease.

Evaluate anterior mandible: There are widespread osseous changes within the entire body of the mandible that consists of varying degrees of patchy osteolysis culminating in extensive osteolysis between the mandibular second premolars with multiple sequestra, loss of cortical bone and osseous support of the anterior teeth. In the posterior regions, punctate radiolucencies are noted within the cortical bone, and as it extends anteriorly there is more extensive loss of cortical and cancellous bone. There is cortical disruption in the buccal aspect of the anterior mandible just to the left of midline. There is evidence of periosteal new bone formation in the approximate region of the lingual aspect of 27-29. There is no evidence of tooth displacement or root resorption. The appearance is suggestive of widespread osteomyelitis; however, malignancy cannot be ruled out. Histopathologic examination is appropriate.

Sinuses: The portrayed borders of the paranasal sinuses appear to be intact; there is no evidence of pathosis in these sinuses. The ostiomeatal complexes appear to be patent.

Airway: The visualized portions of the airway may include the nasopharynx, oropharynx, nasal valves, turbinates, adenoids and tonsils. These structures appear to be within the range of normal. The oropharyngeal airway minimal cross-sectional measurement of $>600 \text{ mm}^2$ is within the range of normal.

Cervical Spine: Portions of the first through third cervical vertebrae are depicted. Degenerative changes such as sclerosis, osteophyte formation and loss of intra-articular space are noted; the appearance is consistent with advanced osteoarthritis.

TMJ: Both temporomandibular joints are partially portrayed as they are at the edge of the scan volume and/or have streaking or other artifacts and therefore reduced diagnostic value; the depicted osseous components appear to be within the range of normal with evidence of functional remodeling which tends to be adaptive rather than progressive or degenerative.

Maxilla and Mandible: The generalized bone pattern and jaw morphology are within the range of normal.

Other Findings: Ossification of the stylohyoid ligament is noted.

IMPRESSIONS

- Widespread mandibular osteomyelitis (see note).
- Periodontal bone loss.

Terry M. Adair DDS

Oral and maxillofacial radiologist

Note: As there are overlapping features with metastatic carcinoma, biopsy is appropriate.

Thank you very much for the opportunity to provide this consultation for your patient.

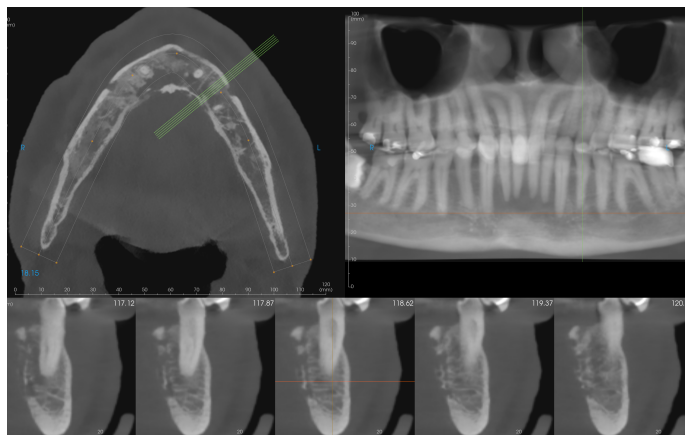
Disclaimer: These images are only representative slices; no measurements should be made from attached images as they are included to clarify and illustrate for the basis of opinions in this report and not intended for direct measurement in the context of treatment planning.

IMAGES

Reformatted Panoramic View

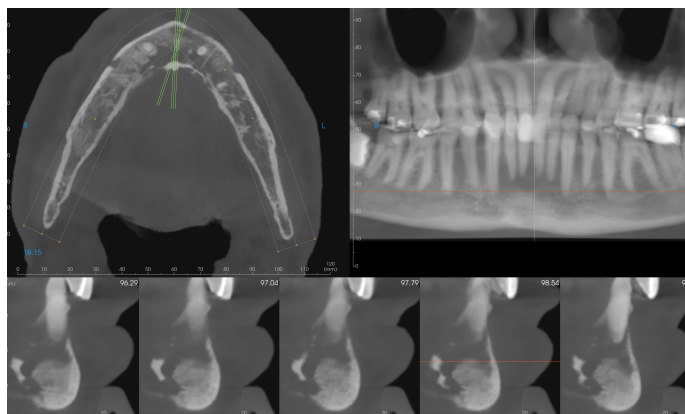


Composite arch view



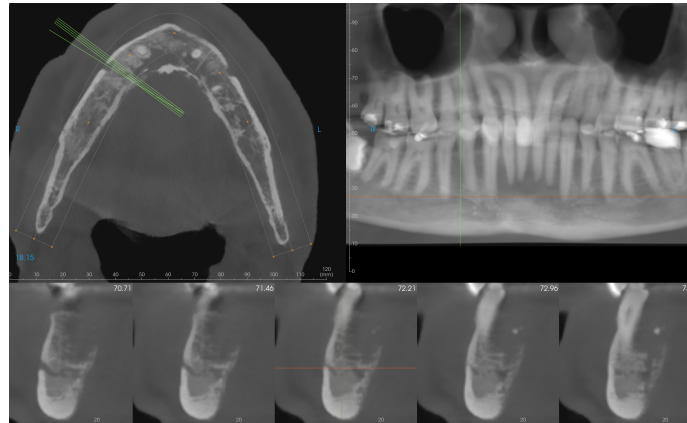
Demonstrating extensive osteolysis, approximate left mandibular canine region

Composite arch view



Demonstrating extensive osteolysis, approximate anterior mandible region

Composite arch view



Demonstrating extensive osteolysis, approximate right mandibular canine region