CBCT Imaging Of A Giant Sialolith (Megalith)

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Images

Description

Background: A 25-year-old man presented to the Department of Oral Medicine and Radiology with a painful and persistent discharge under the tongue on right side of the mouth. The patient complained of repeated episodes of pain before, during and after food intake with a recent episode of fever. Panoramic radiograph showed a radio-opaque mass superimposing over right mandibular angle region (Figure 1). Cone Beam Computed Tomography (CBCT) was obtained for the description and location of the radio-opaque mass. Multiple planar images were constructed which showed a round sialolith measuring around 22 mm x 18 mm, in coronal section (Figure 2) and Three-Dimensional (3D) reconstruction (Figure 3).

Key words: Sialolithiasis; sialography; cone beam computed tomography;

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Discussion

Sialolithiasis is the most common disorder of the major salivary glands characterized by the development of salivary stones (calculi or sialolith) in the ducts or the parenchyma of the affected salivary gland [1]. Sialoliths of size greater than 15 mm are termed as megaliths. Plain radiography has limited value in salivary gland radiology. Sialography creates exceptional contrast and allows even detection of minute stones and strictures but requires injecting contrast media into the ducts of the major salivary glands. The technique is invasive and possible failures of the technique are its limitations [2]. CBCT has definite advantage over conventional sialography in demonstrating salivary ductal system [3]. CBCT sialography can be used as the modality of choice for the demonstration of salivary ductal system and as an alternative to conventional sialography [4].

References