

دکتر عاطفه خوید متخصص رادیولوژی دهان، فک وصورت عضو هیئت علمی دانشکده دندانیزشکی کرمانشاه



CBCT

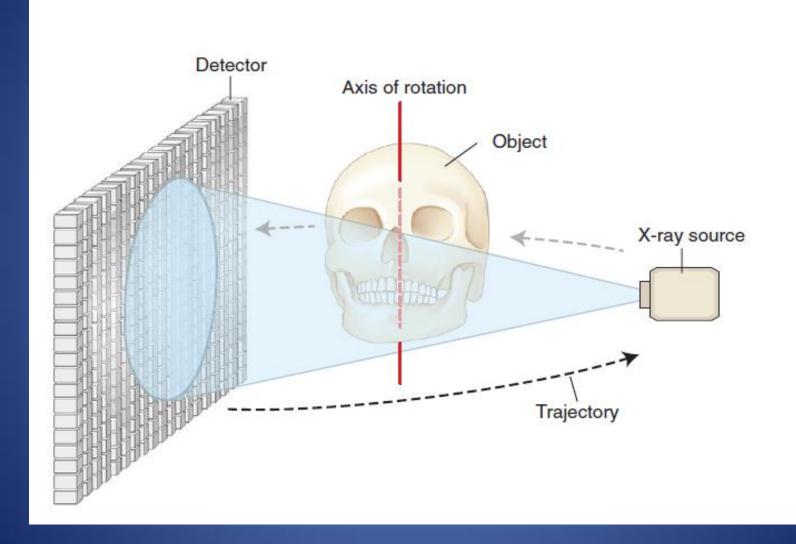


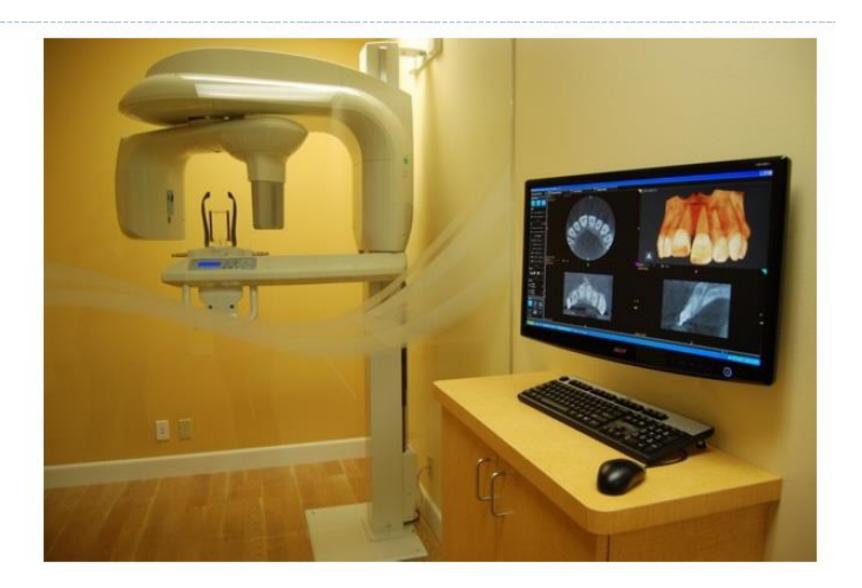
Cone beam computed tomography (CBCT) is a relatively new method that produces three-dimensional (3D) information of the maxillofacial skeleton, including the teeth and their surrounding tissue, with a lower effective radiation dose than traditional CT scans.

The X-ray source and detector rotate around a fixed fulcrum within the region of interest (ROI).

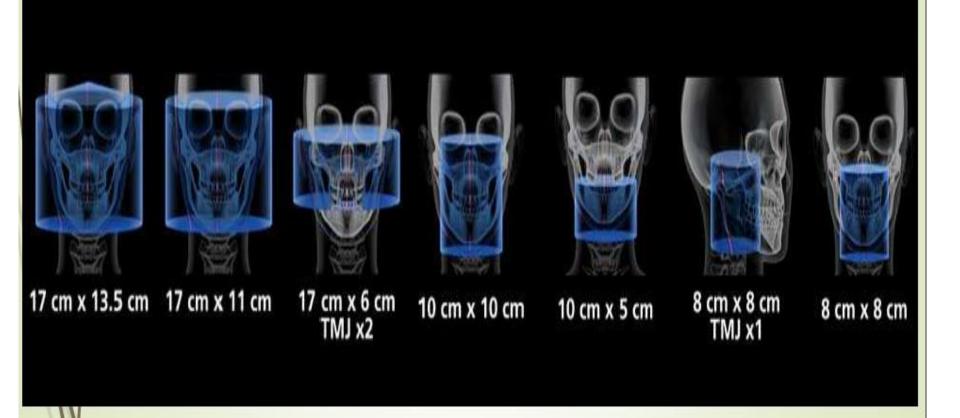
During the exposure sequence hundreds of planar projection images are acquired of the field of view (FOV)

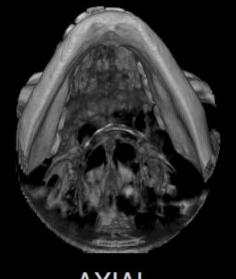






Field of View









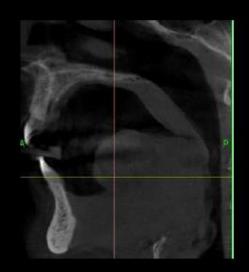
CORONAL



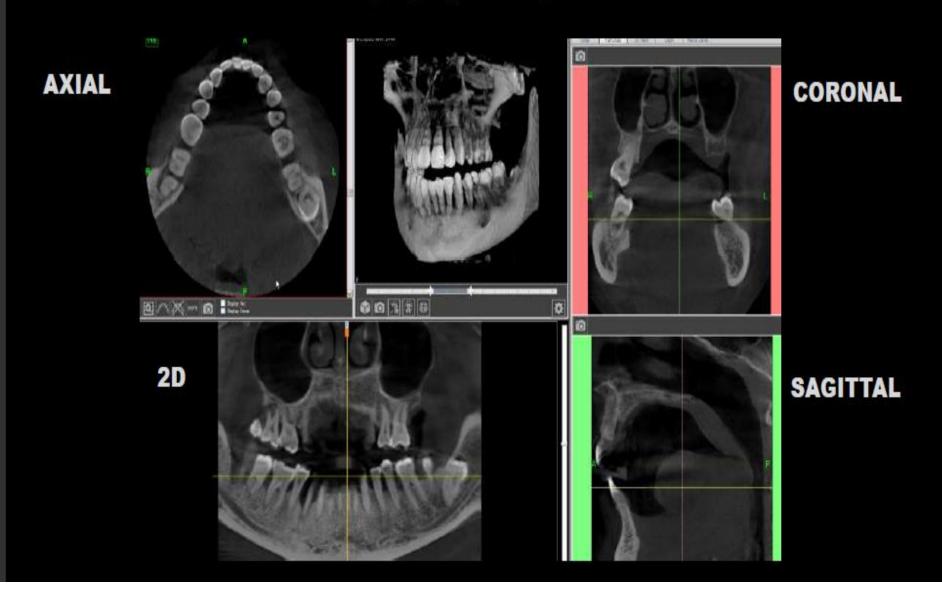
SAGITTAL







Displaying 3D aquisition

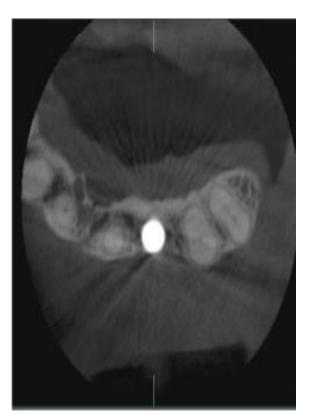


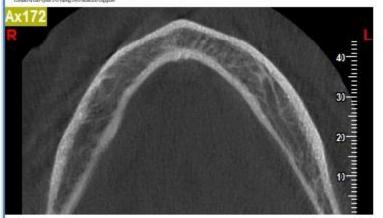
INDICATION

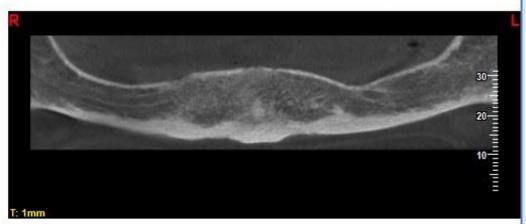
- Implant site assessment
- Extension of pathologies
- Bone quality
- Maxillary sinus
- TMJ
- •truma
- Diagnostic requirements in endodontics, orthodontics, periodontics, maxillofacial surgery

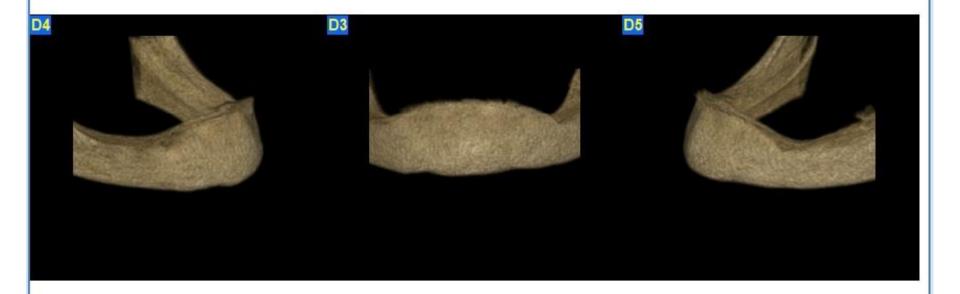












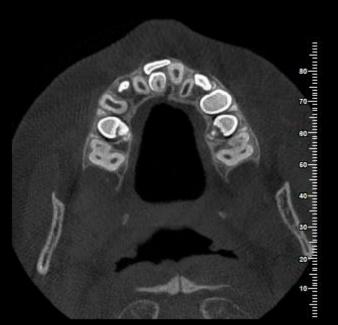
- M



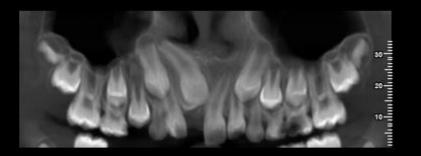




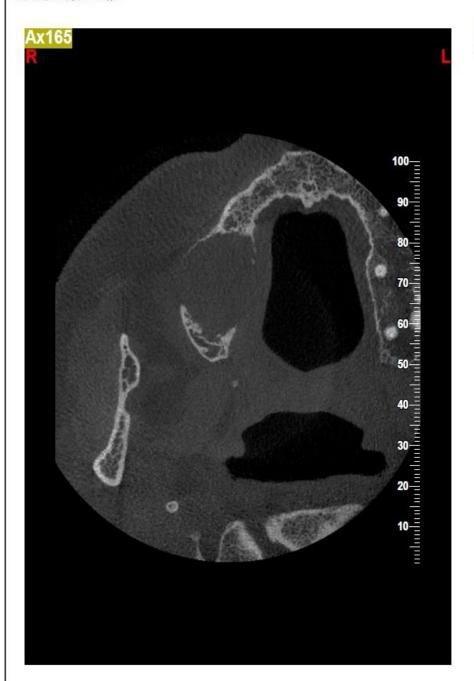
Ax112

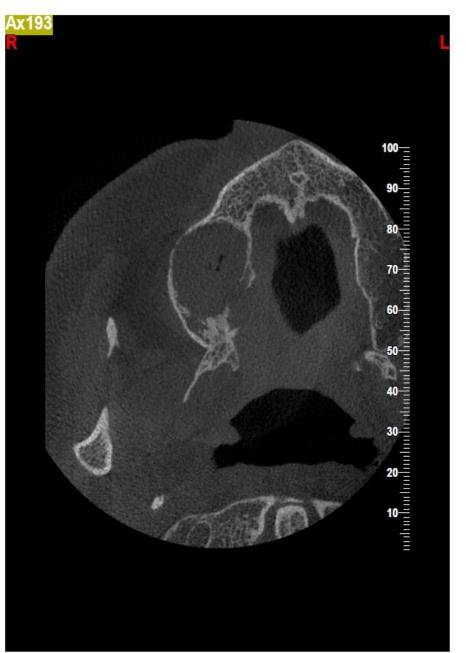


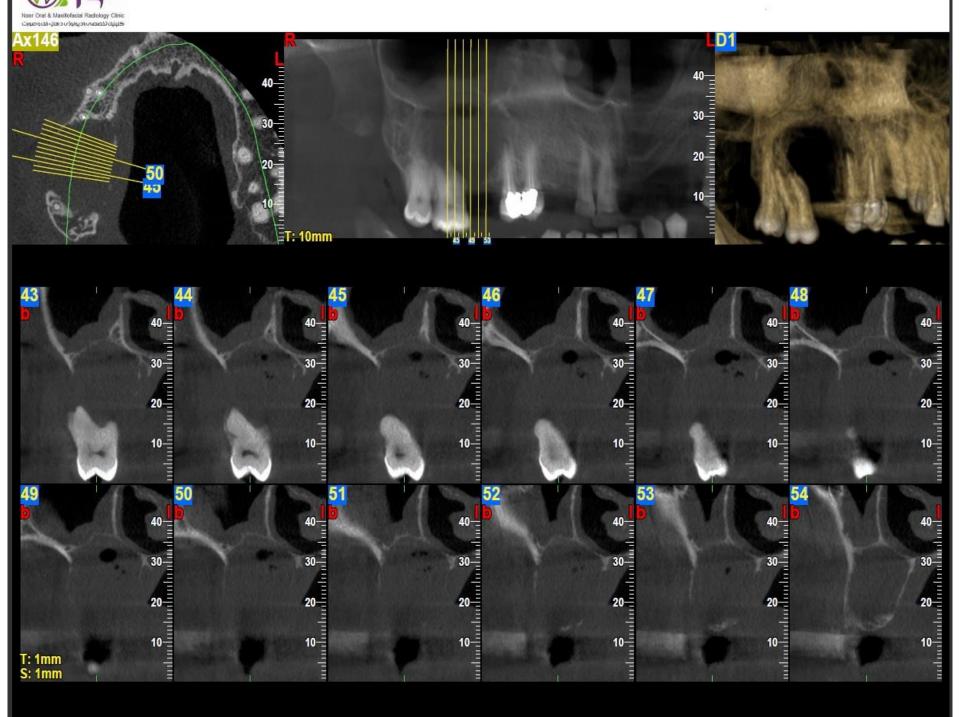
R

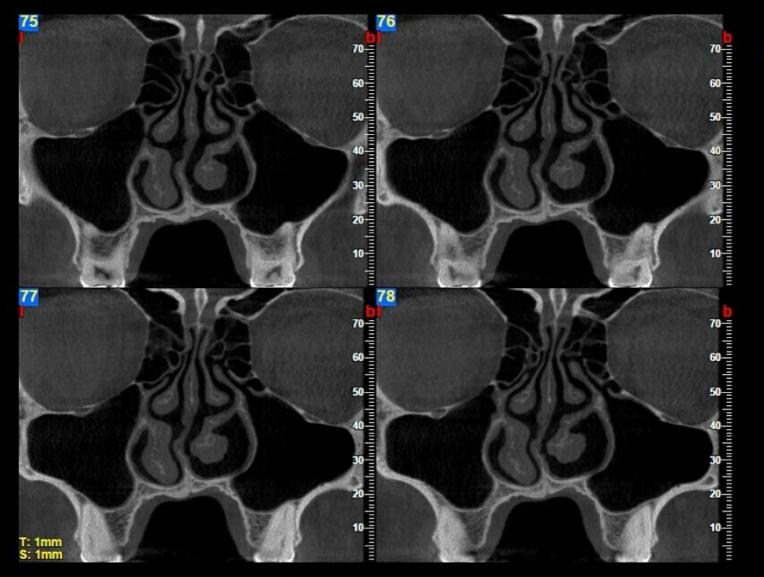


T: 10mm









CBCT IN ENDODONTICS

- periapical radiographs have been used as an adjunct to help endodontists diagnose pathology and aid the clinician in developing a treatment strategy.
- Interpreting radiographs is also difficult when roots of teeth overlap and anatomical structures are present.
- Dental materials such as crowns, posts, and filling materials may also add additional difficulty in interpreting the radiograph

Endodontics Applications

- *Pre Operative Assessment:
- *Complex Anatomy
- *Failed Root Canal Treatments
- *Dento- Alveolar Trauma
- *Tooth Resorption
- *Pre Surgical Planning

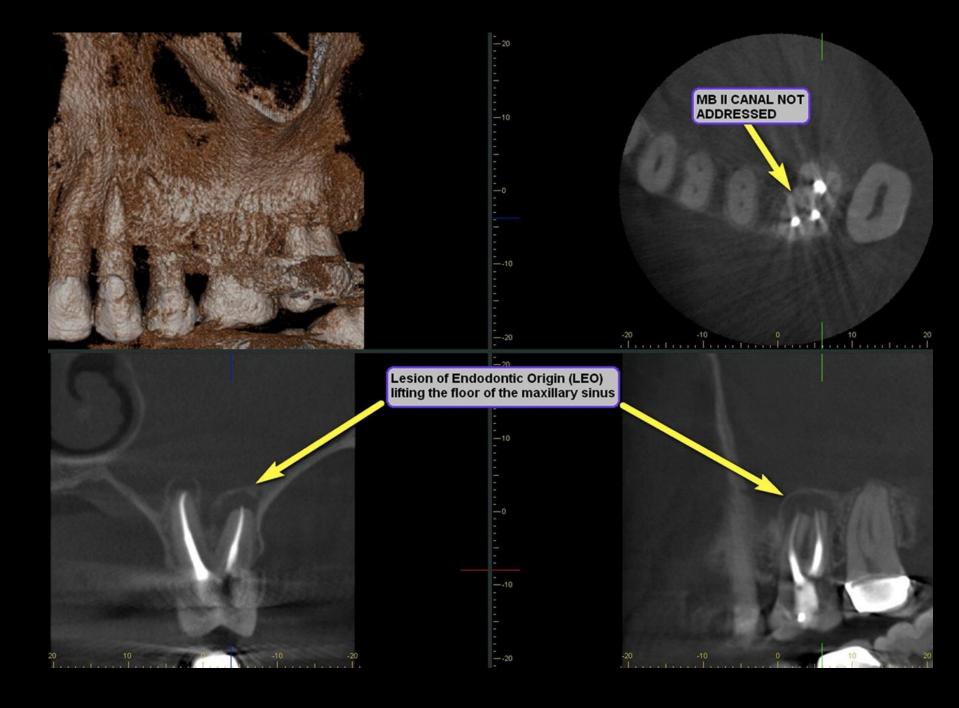
CASE

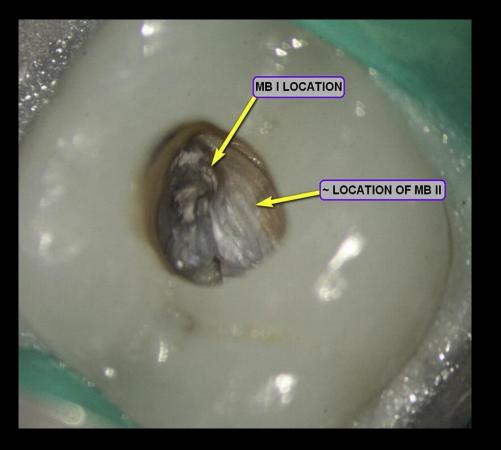
A 56-year-old woman was referred for evaluation and potential retreatment of tooth number 14.

The tooth was treated approximately 2 years earlier

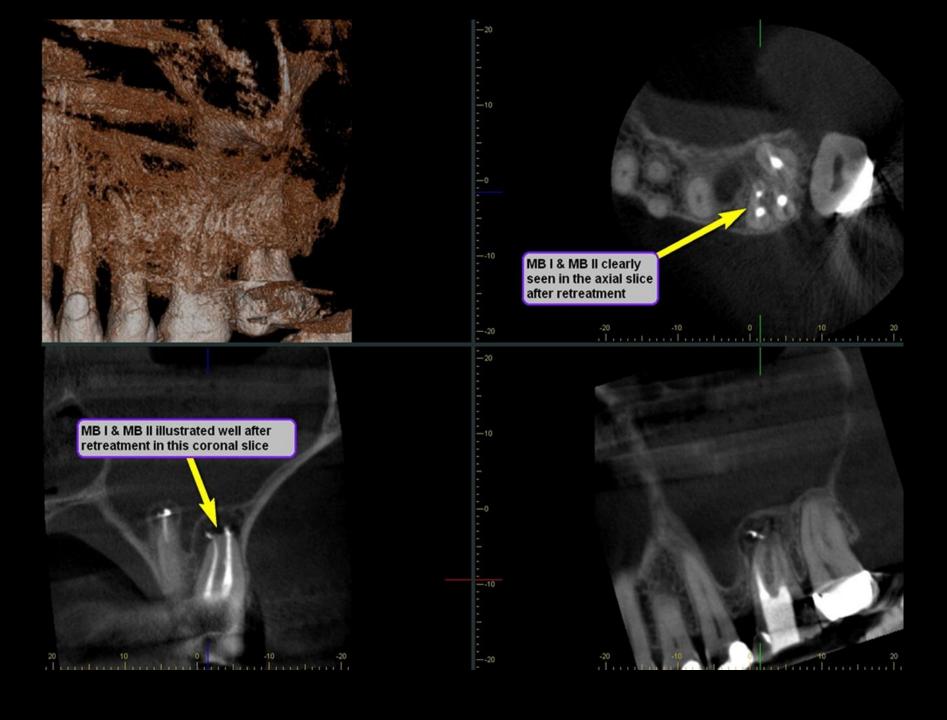
The patient reported pain and discomfort in the upper left quadrant.

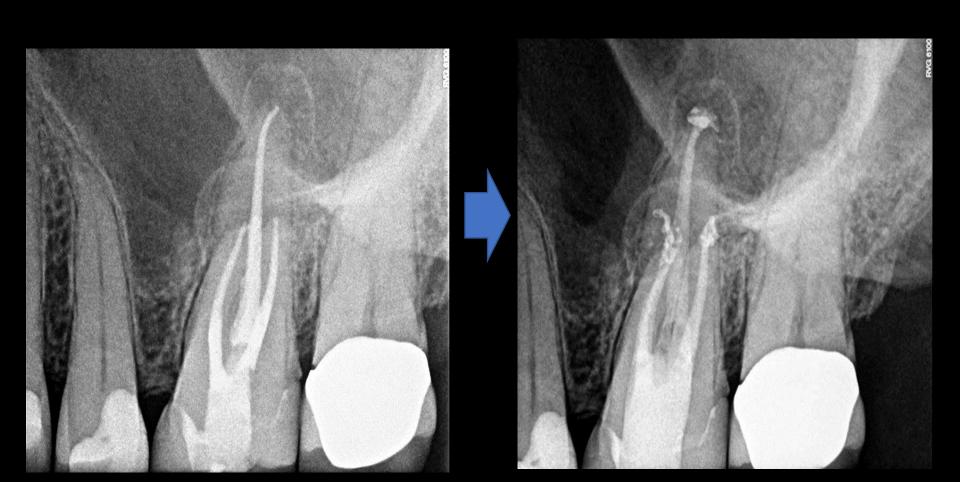


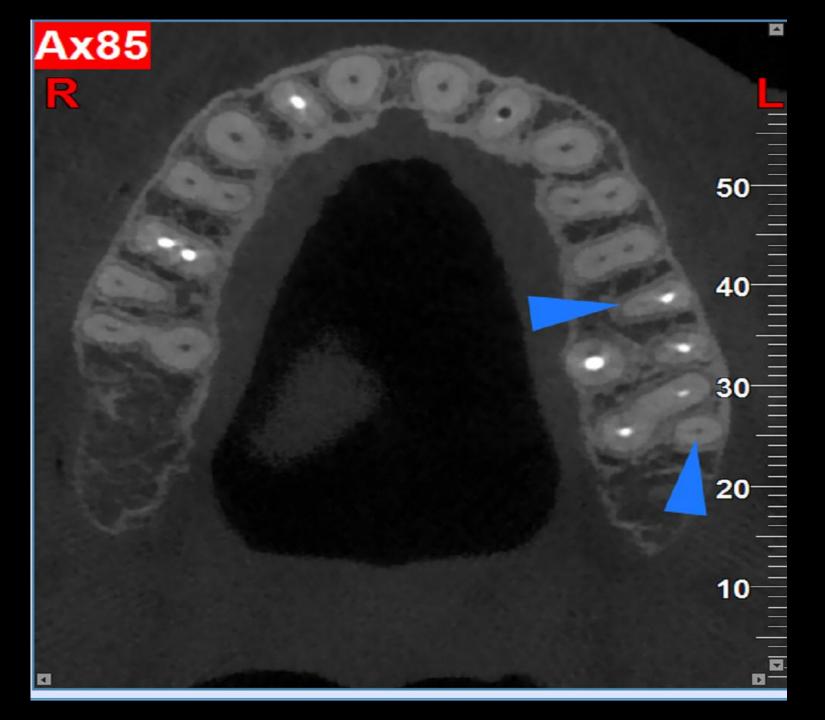


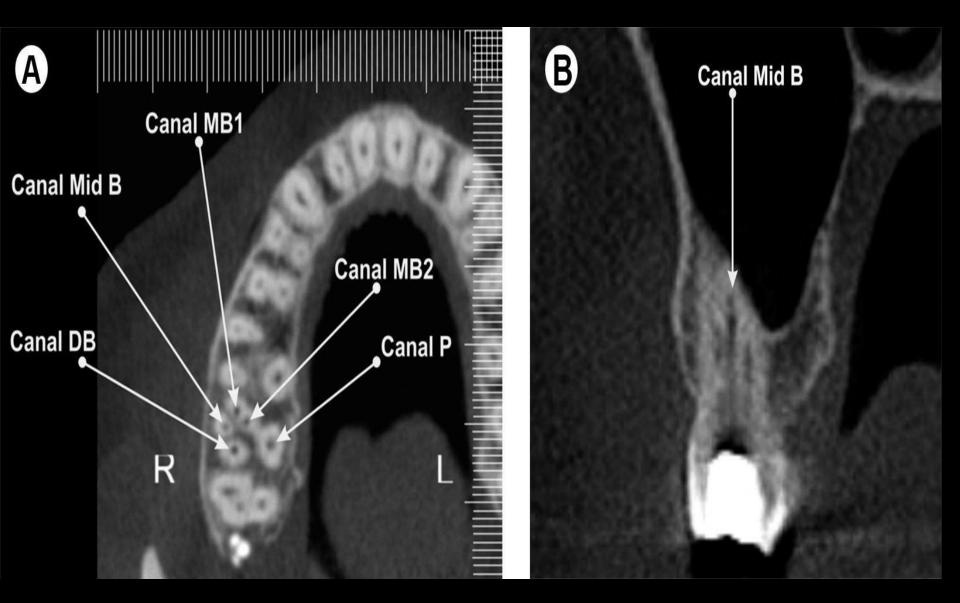












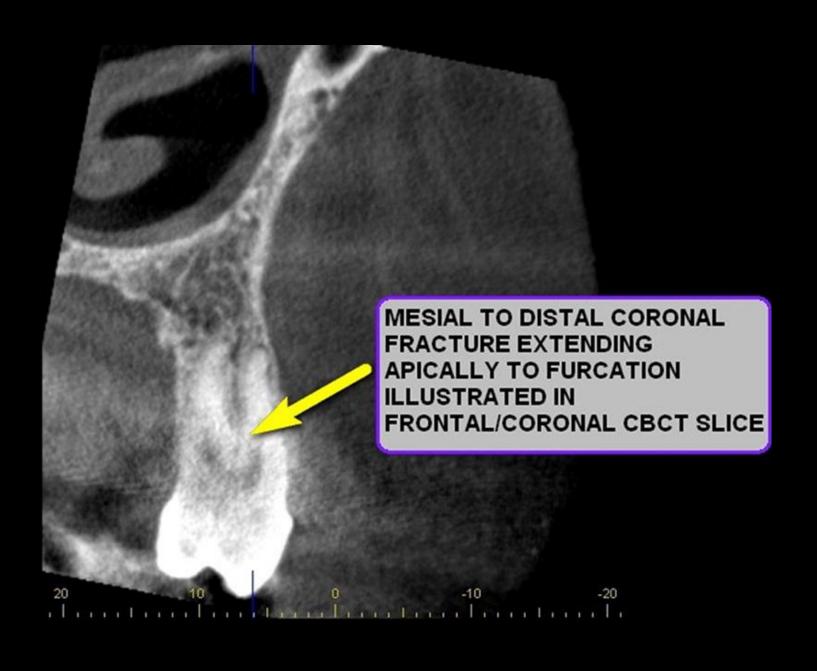
CASE

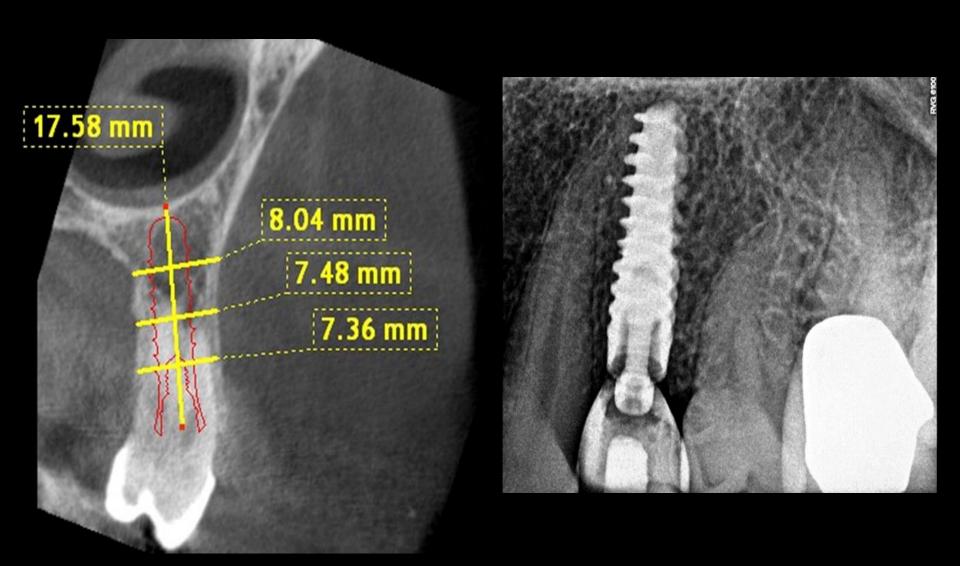
A 36-year-old man

The patient reported pain and discomfort in the Tooth number 12 exhibited class III mobility

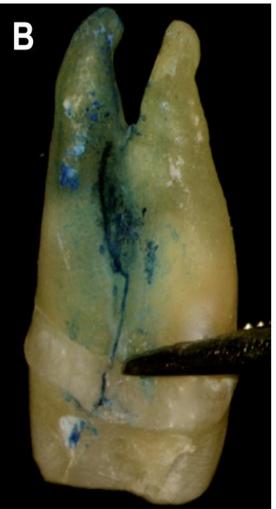


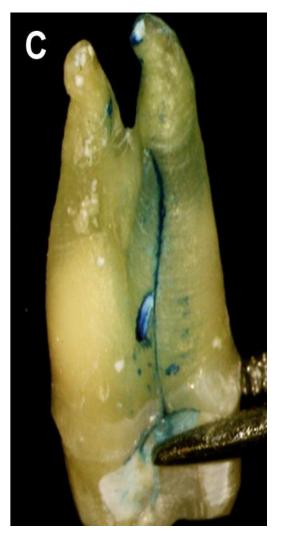












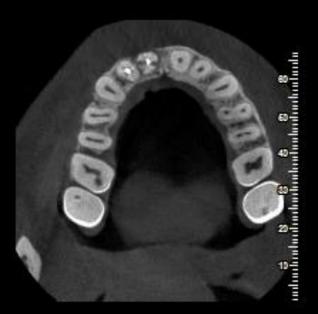




T: 16mm

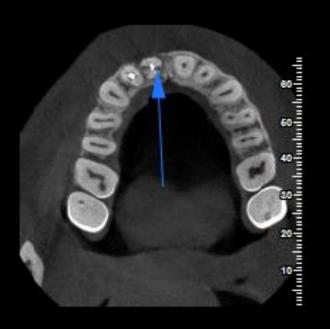
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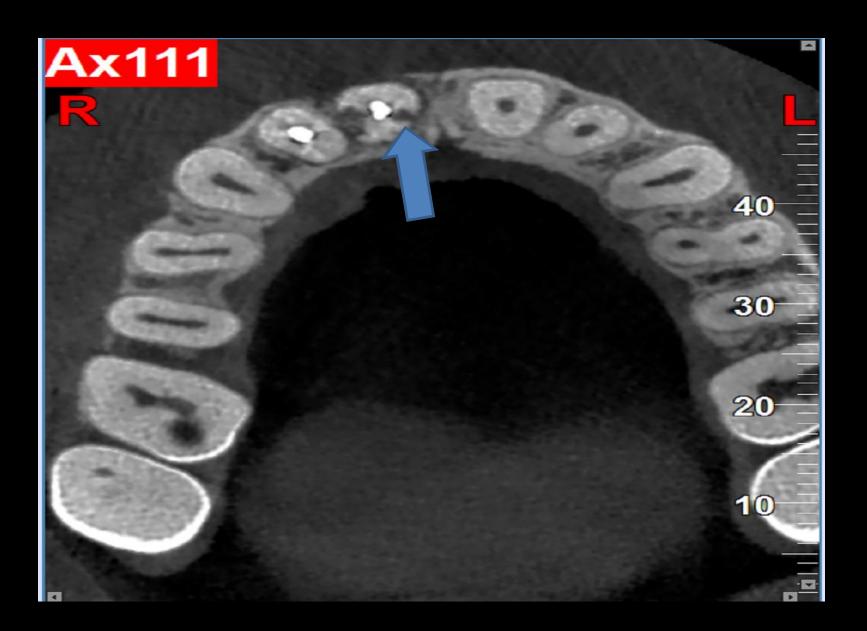
R



Ax112

R





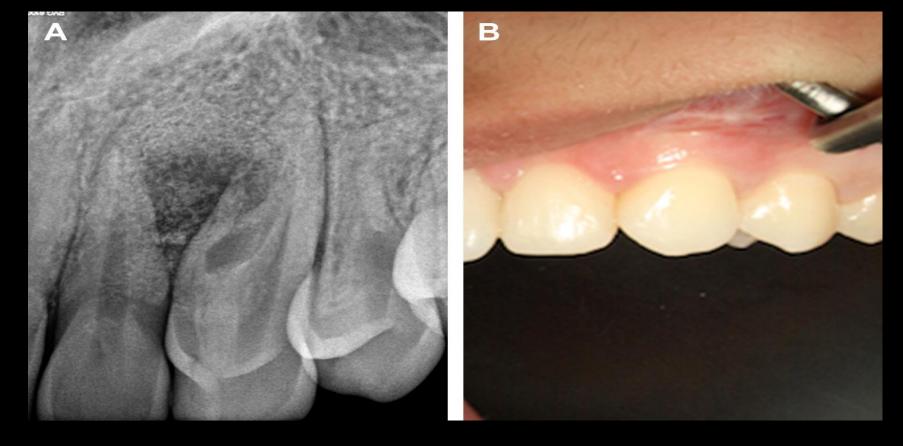
CASE

A 15-year-old girl was referred by an oral surgeon for evaluation of the area of teeth numbers 10 and 11.

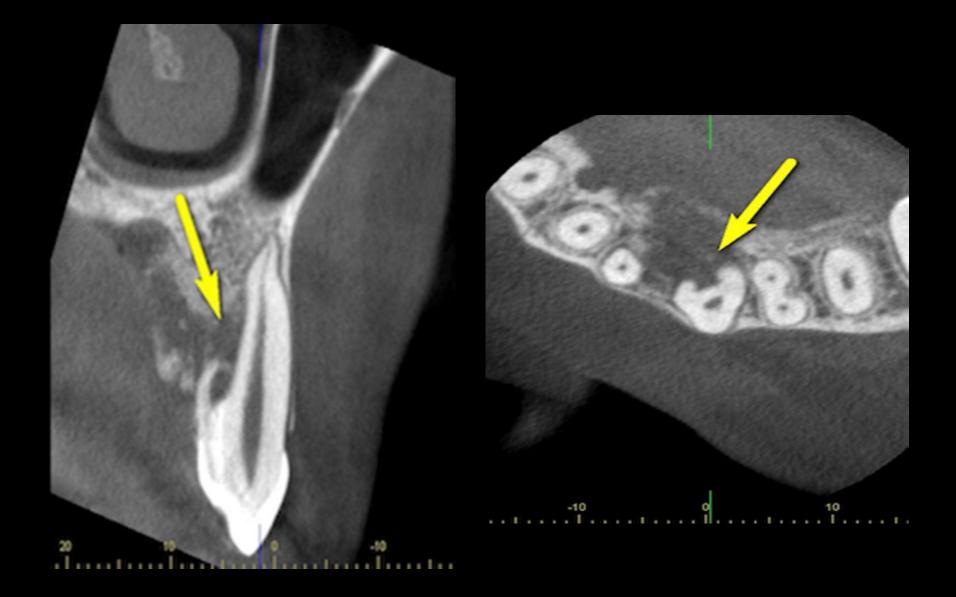
The area had two surgical procedures to remove a cyst.

Intraoral examination revealed swelling in the palatal area and a draining sinus tract.

Preoperative testing indicated that all the maxillary anterior • teeth were vital. h

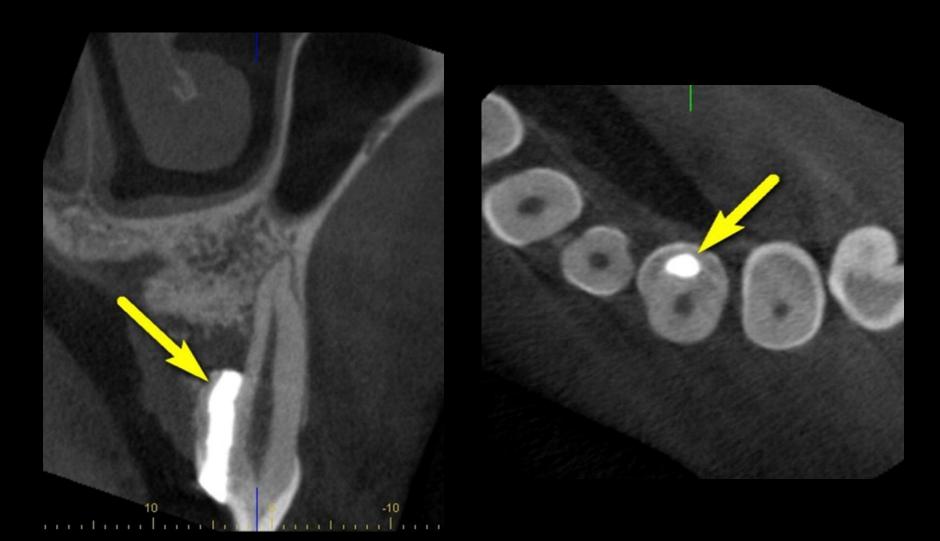


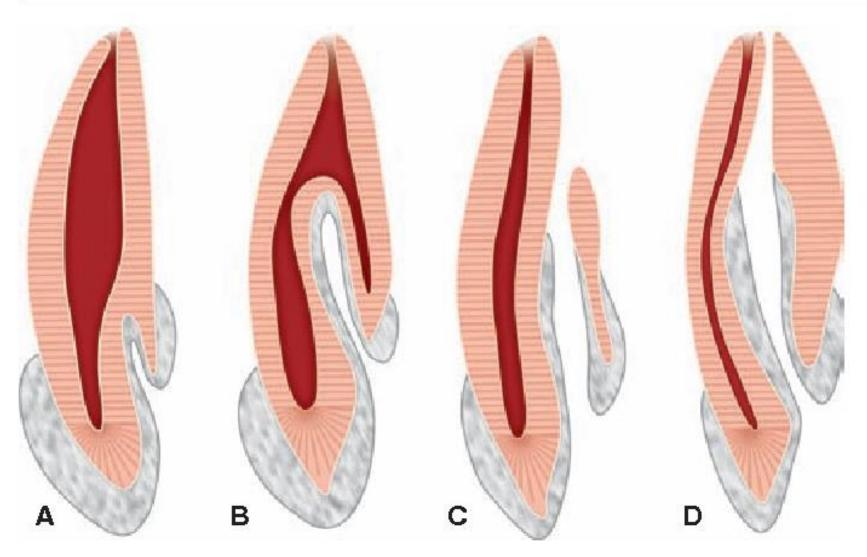












Figs 1A to D: Classification of dens invaginatus by Oehlers

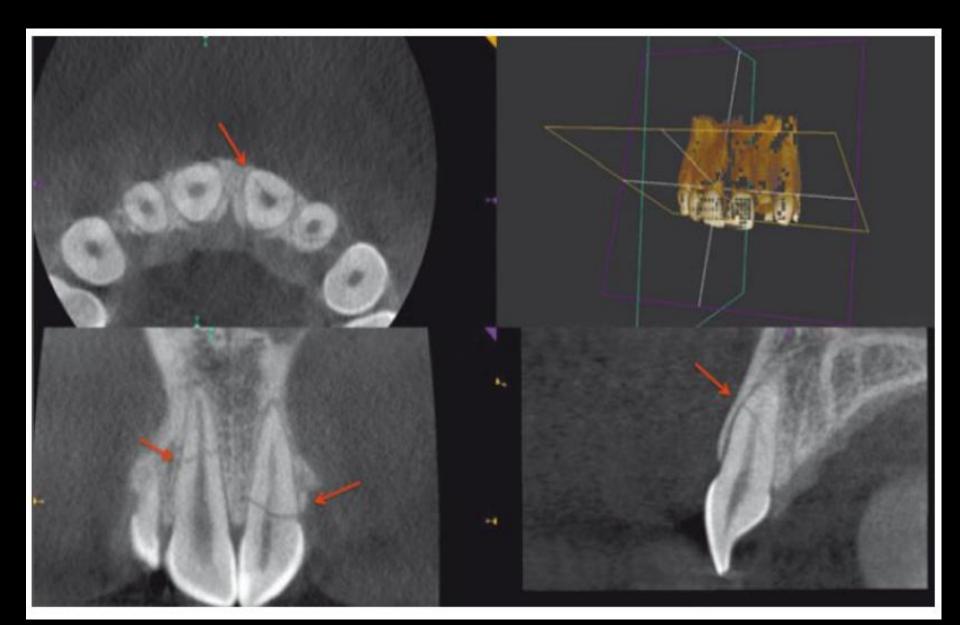


CASE

A 15-year-old men with trauma to the maxilla



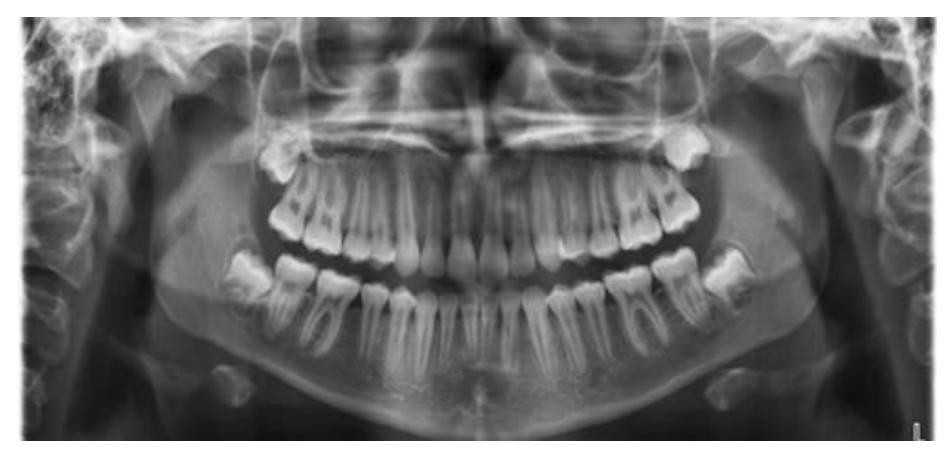




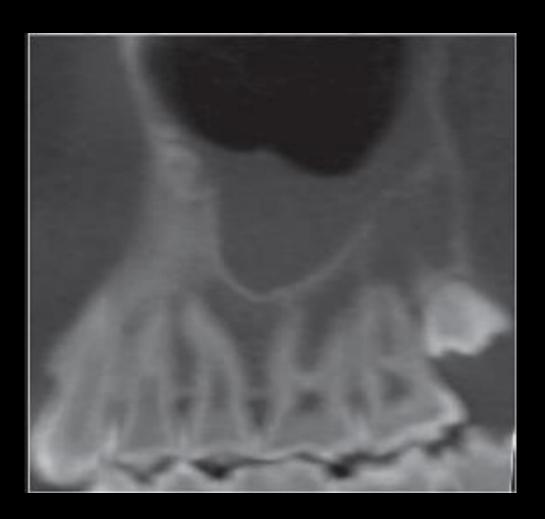
CASE

A 16-year-old man

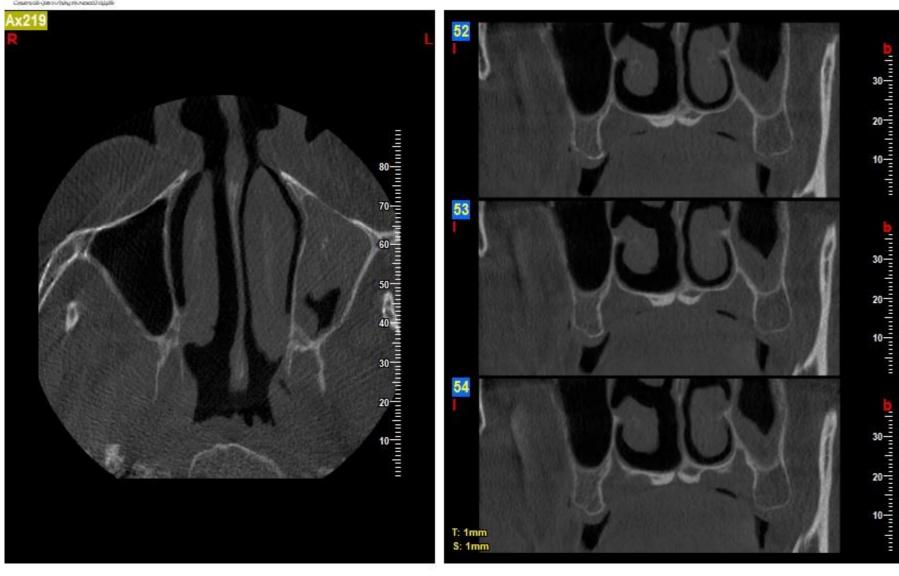
The patient reported pain and discomfort in the left maxillary posterior teeth.







Near Oral & Maxillatecial Radiology Clinic Copurg cité-ylas-surfateg-styrucaccó cigliptic



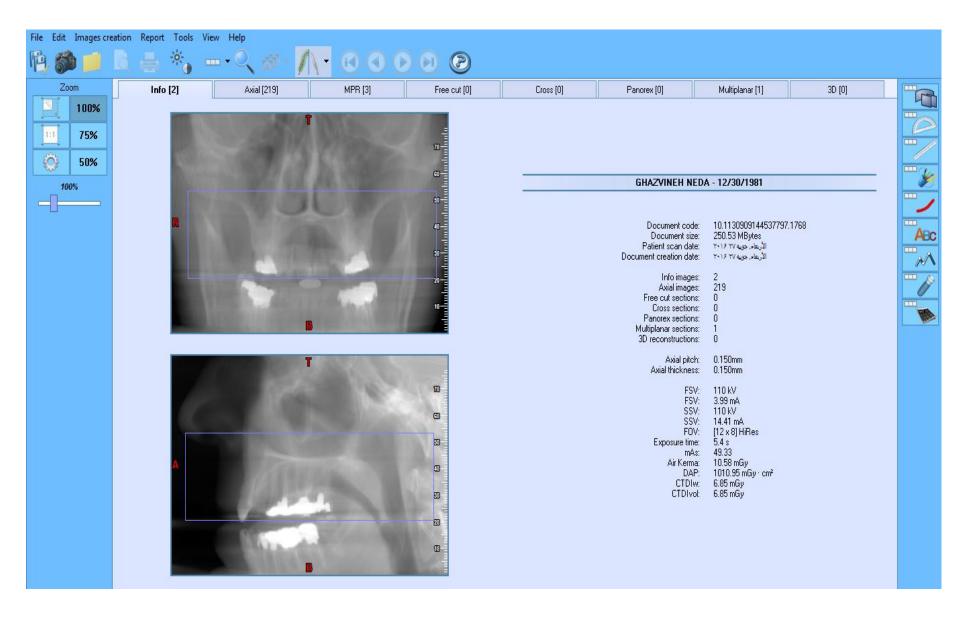
20-1

20-1





NNT VIEWER SOFTWARE



زندى مافتن ك قالست، نه ہمان نقش و گاری که خودت می خواہی، نقثه را اوست که تعین کرده تودران من فقط مي افي بكندآ خر كارقالي زندكست تقشه را خوب سن!