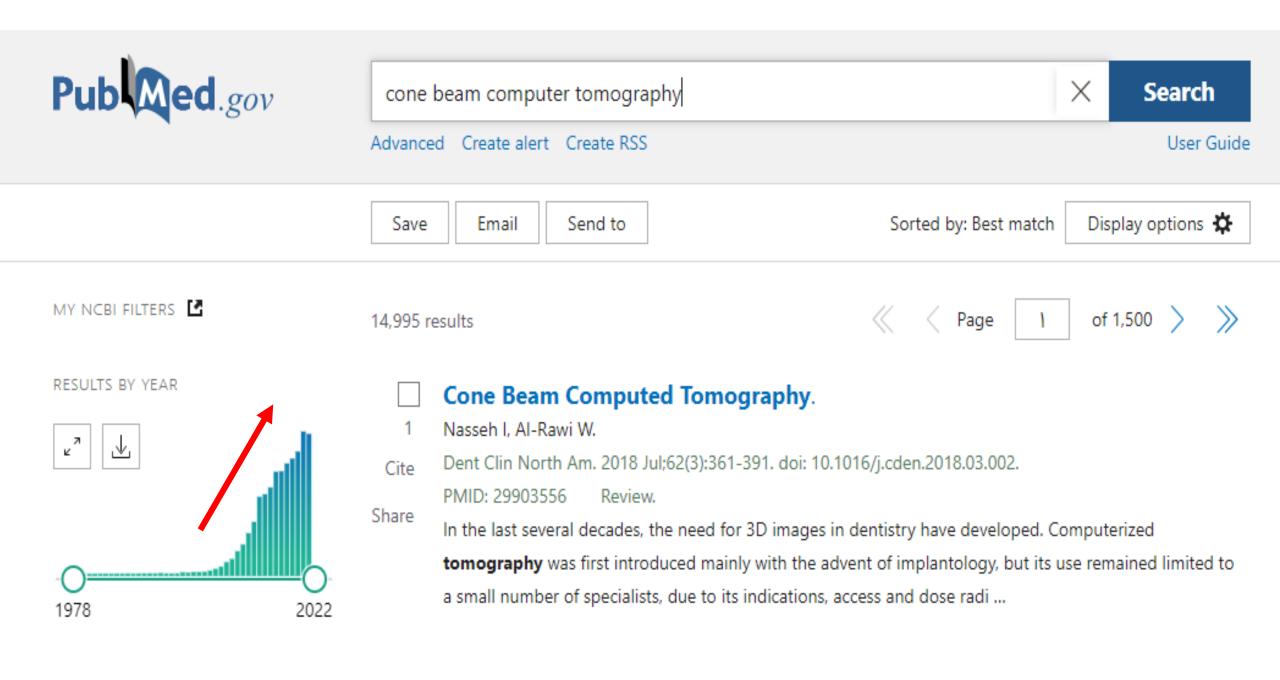


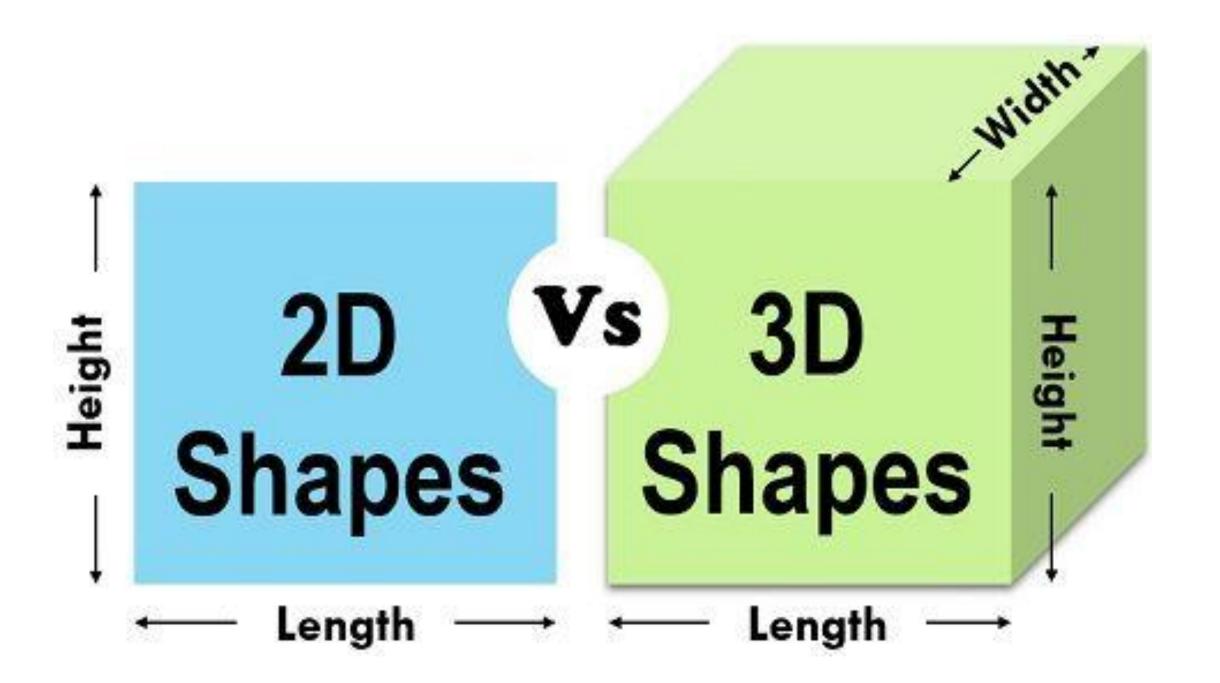
CBCT in Diagnosis of Periapical Lesions

Prof. Hussain Faisal Al-Huwaizi

College of Dentistry-University of Baghdad Chairman of the scientific committee, Iraqi Dental Association Coordinator of the Iraqi Endodontic Society Member in the European society of Endodontology Member in the International, Asian Pacific and Arab endodontic societies



Why 3D



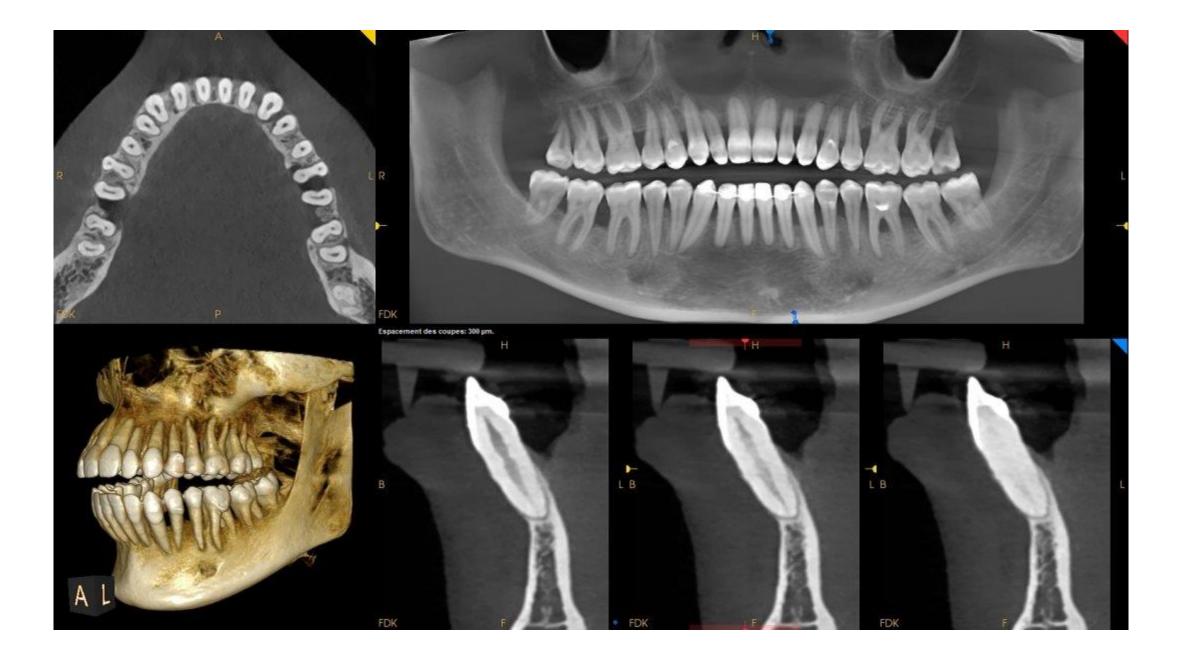




Axial plane

Coronal plane

Saggital plane



Advantages of CBCT

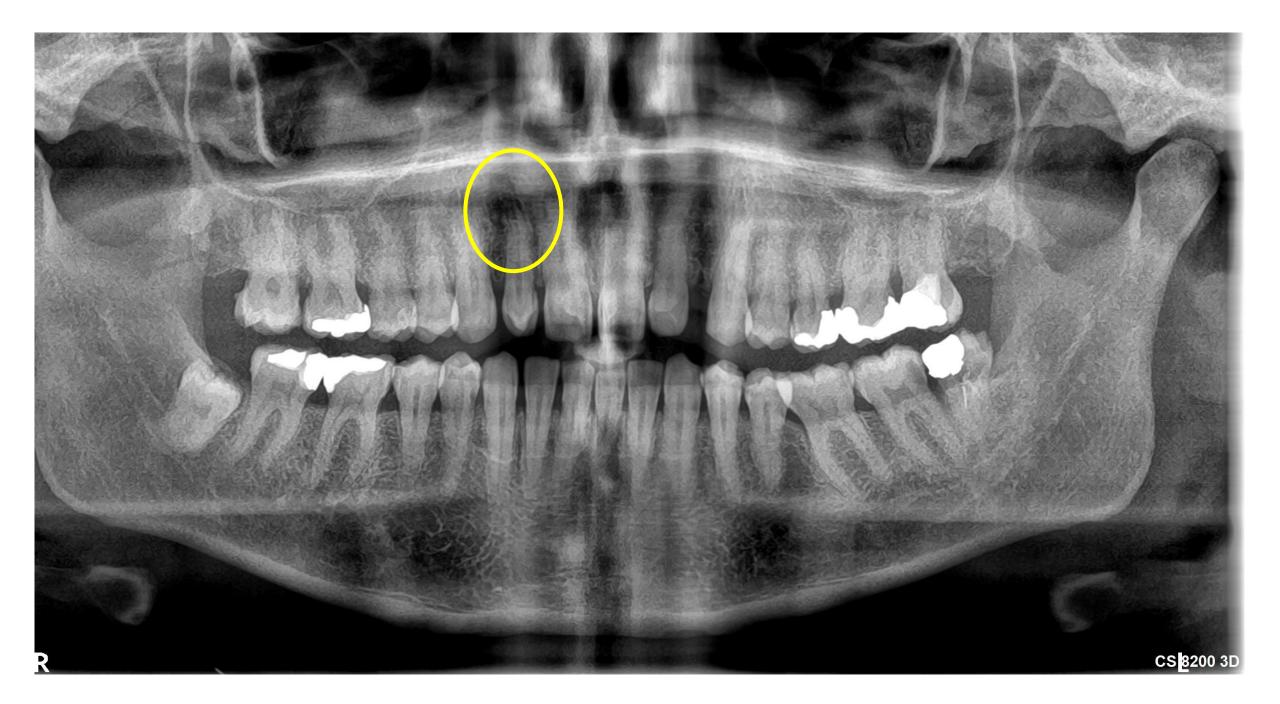
- 1- Rapid scan time
- 2- Beam limitation
- 3- Image accuracy
- 4- Reduction in radiation dose when compared with medical CT (10 times less)5- Safe

Field of Vision





Diagnosis



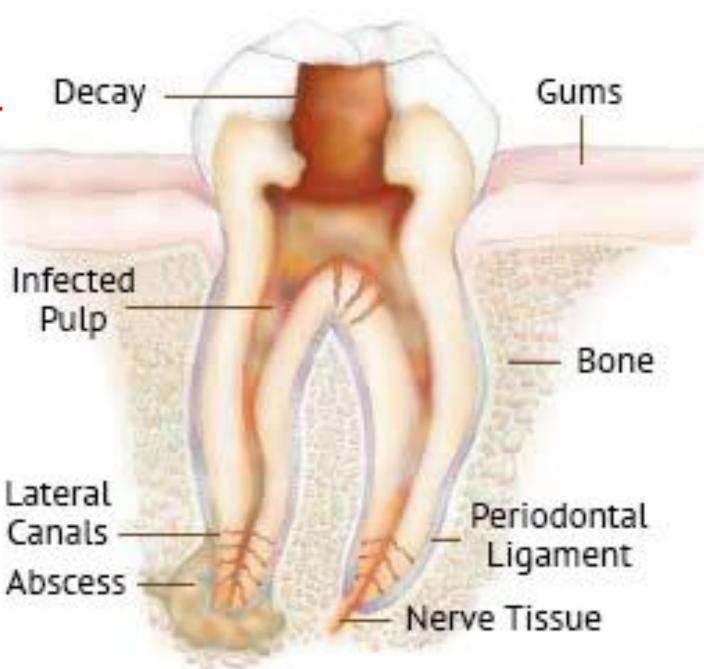


Lateral Canals

Prevalence of lateral canals

49% Huang et al 2018

45% Sousa et al 2010



Courtesy of Pacific Dental Care

Micro-computed tomographic assessment of the variability and morphological features of root canal system and their ramifications

Jardel Francisco MAZZI-CHAVES,^{1,2} Yara Terezinha Corrêa SILVA-SOUSA,³ Graziela Bianchi LEONI,³ Alice Corrêa SILVA-SOUSA,³ Lucas ESTRELA,⁴ Carlos ESTRELA,⁴ Reinhilde JACOBS,² and Manoel Damião de SOUSA-NETO¹

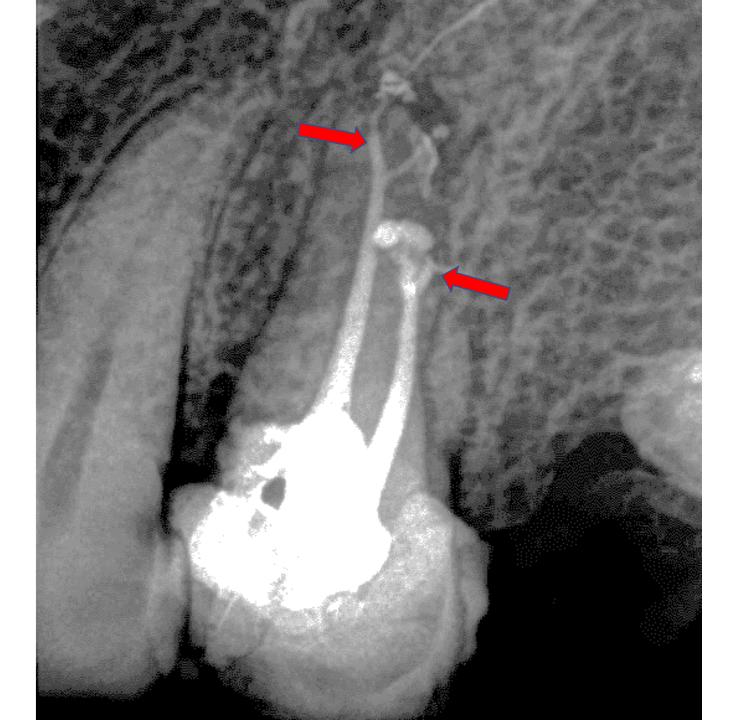
Mandibular first premolars (85%) first and second molars (84%) lateral incisors (67%) canines (59%) maxillary first premolars (52%) > BMC Oral Health. 2017 Nov 29;17(1):142. doi: 10.1186/s12903-017-0430-1.

Could cone-beam computed tomography demonstrate the lateral accessory canals?

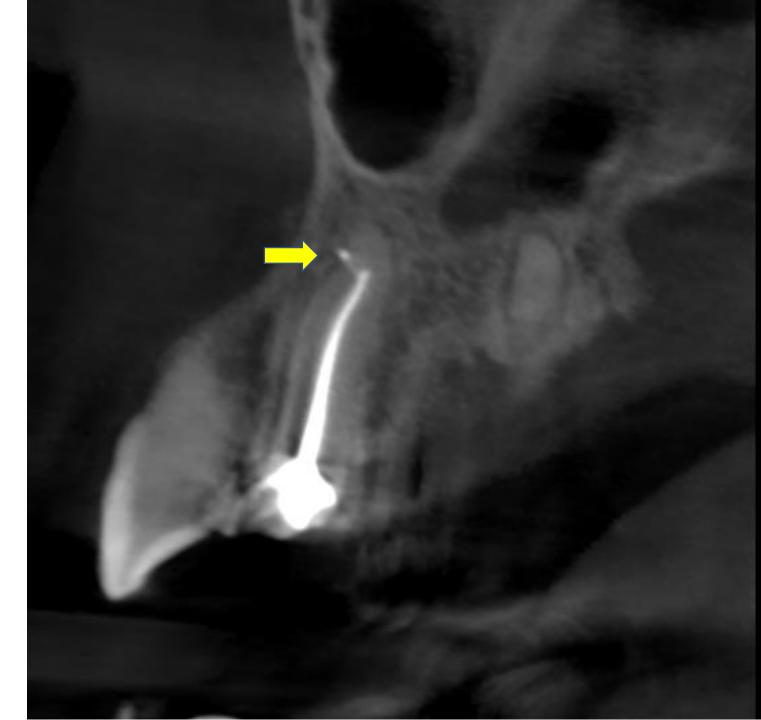
Yan Ji ¹, Shanhui Wen ², Shu Liu ², Min Zhu ³, Menghuan Yao ², Tiemei Wang ⁴, Zitong Lin ⁵

The HZ mode should be chosen to demonstrate the root canal system, and partial LACs.

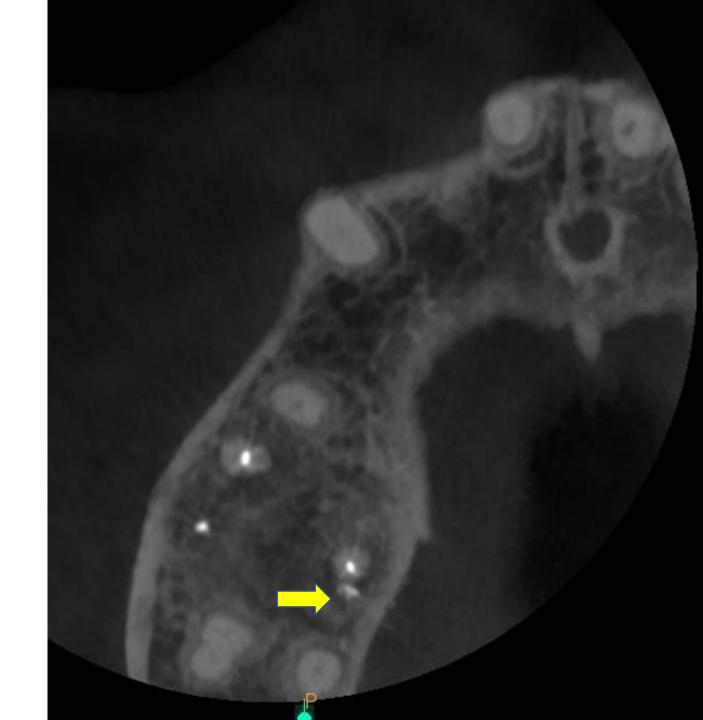


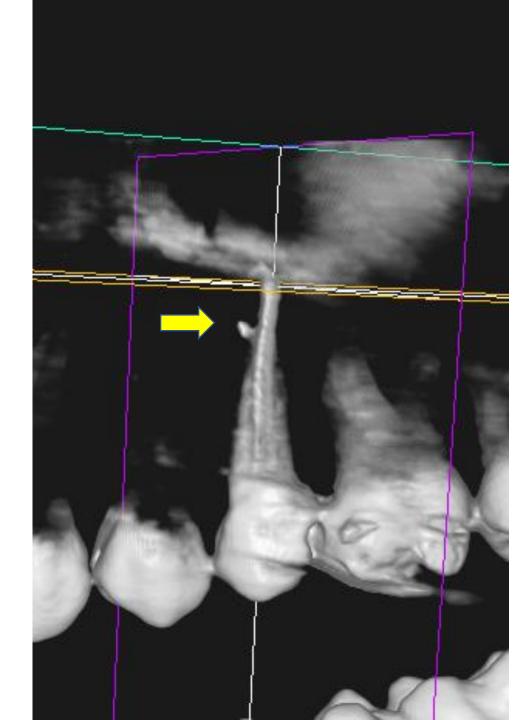


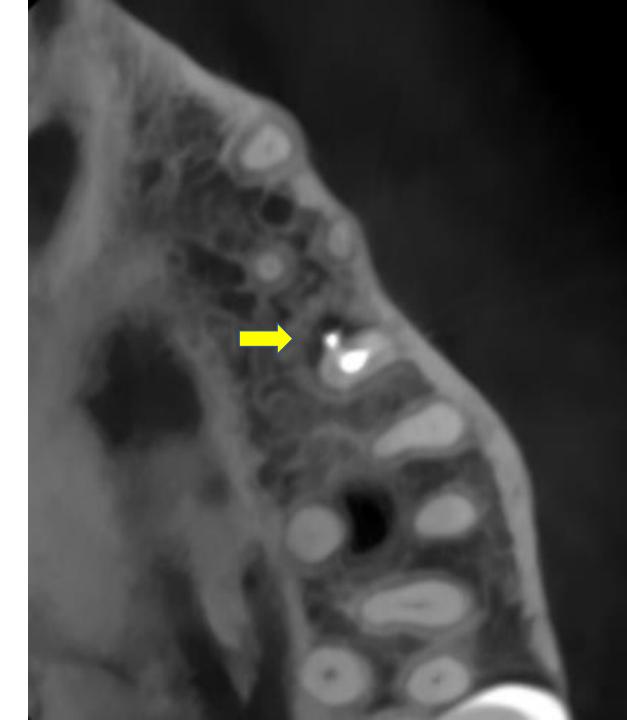
Extrusion of lateral canal labially

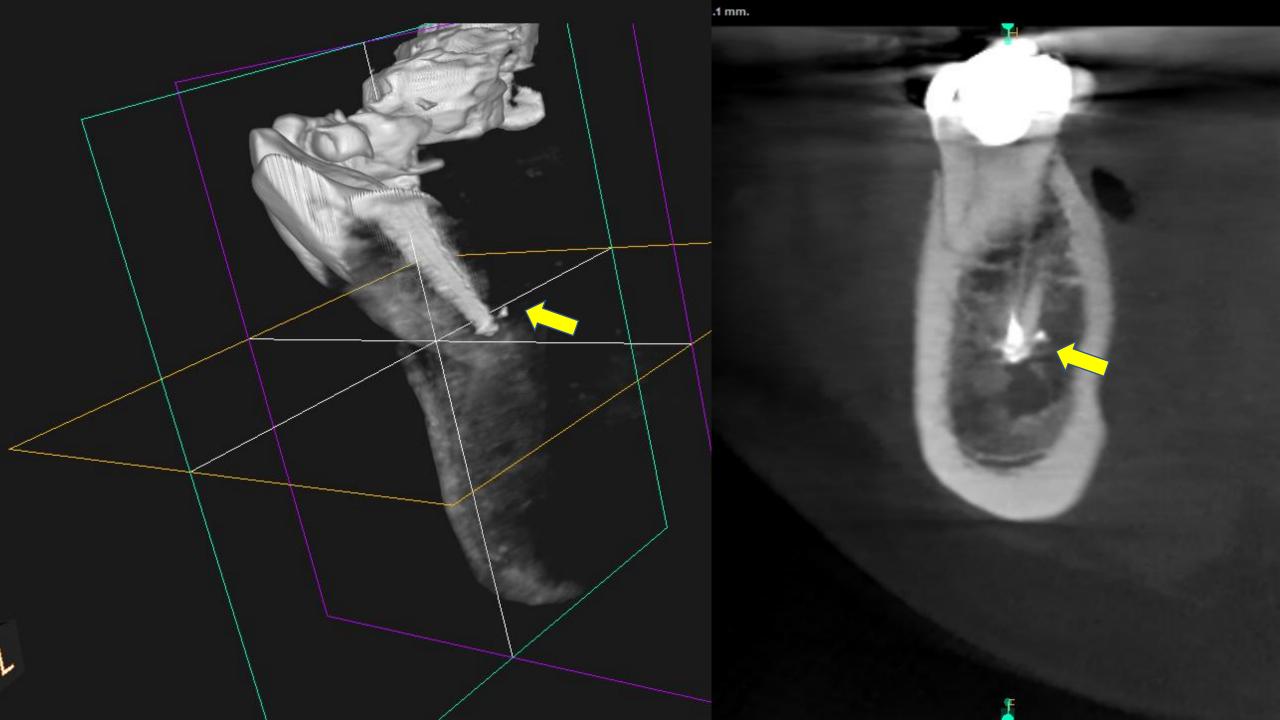


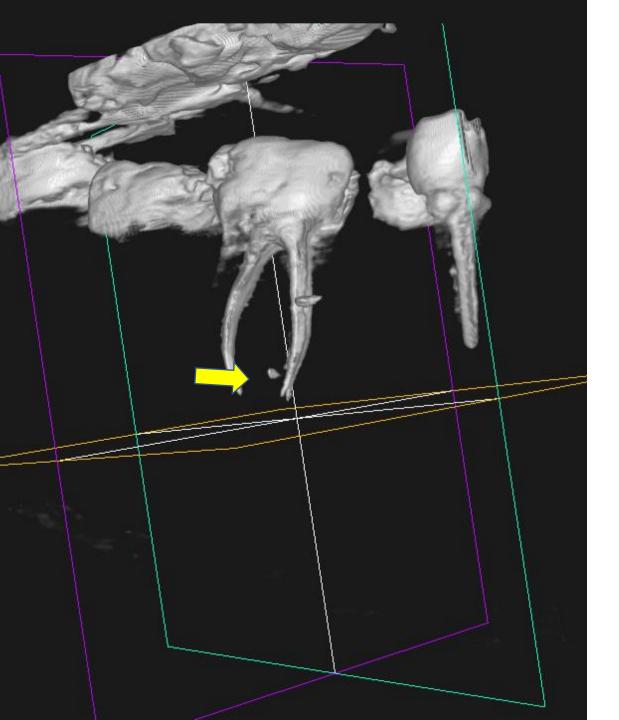
Extrusion of lateral canal palatally



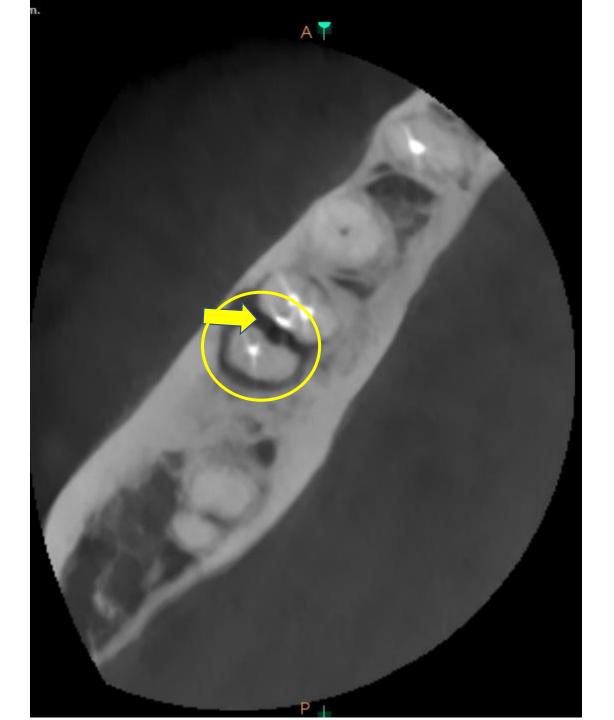


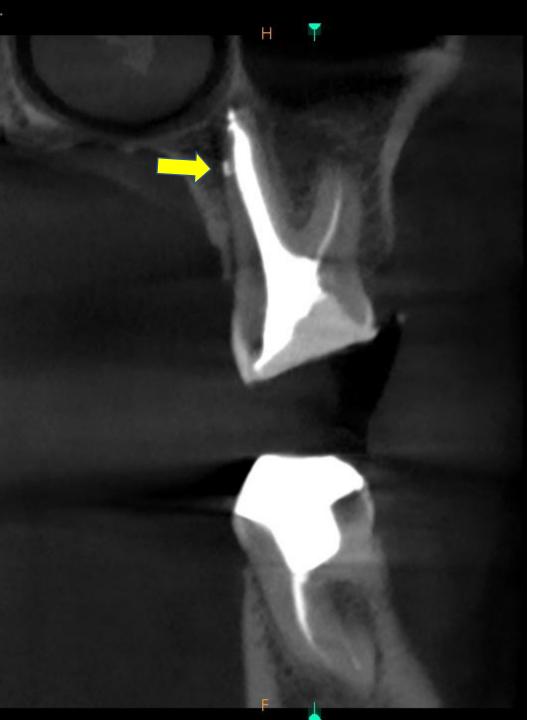


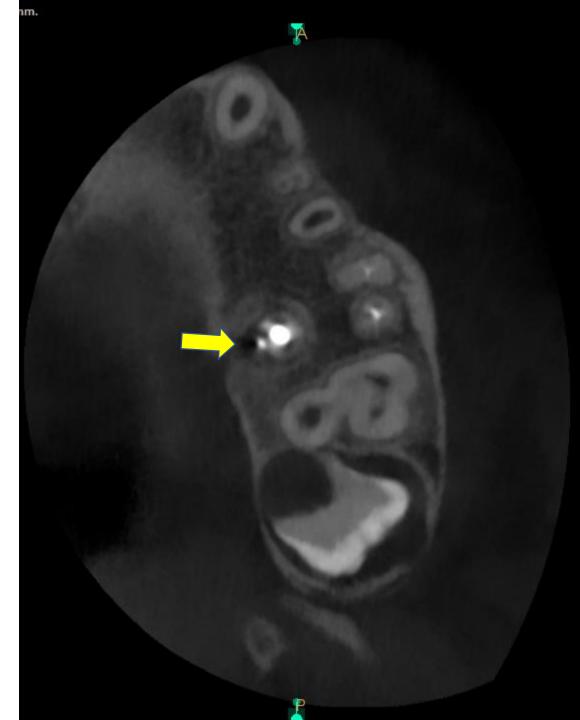












Extensive

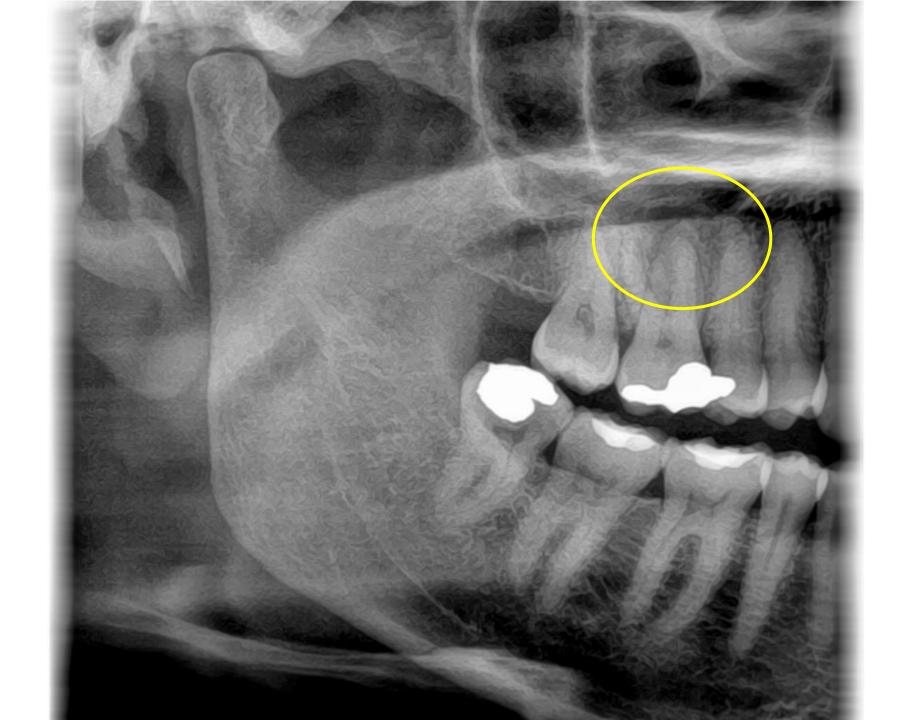
Lesions

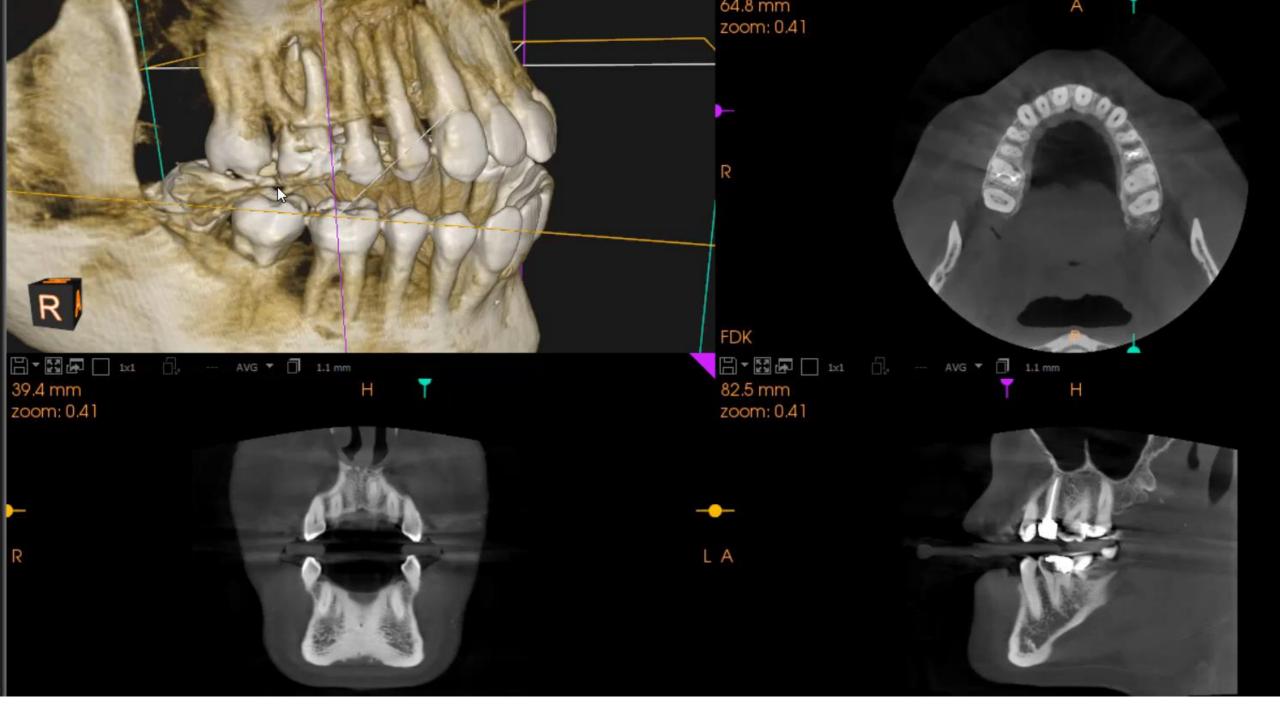
> Eur Endod J. 2021 Apr;6(1):56-71. doi: 10.14744/eej.2021.29981. Epub 2021 Mar 23.

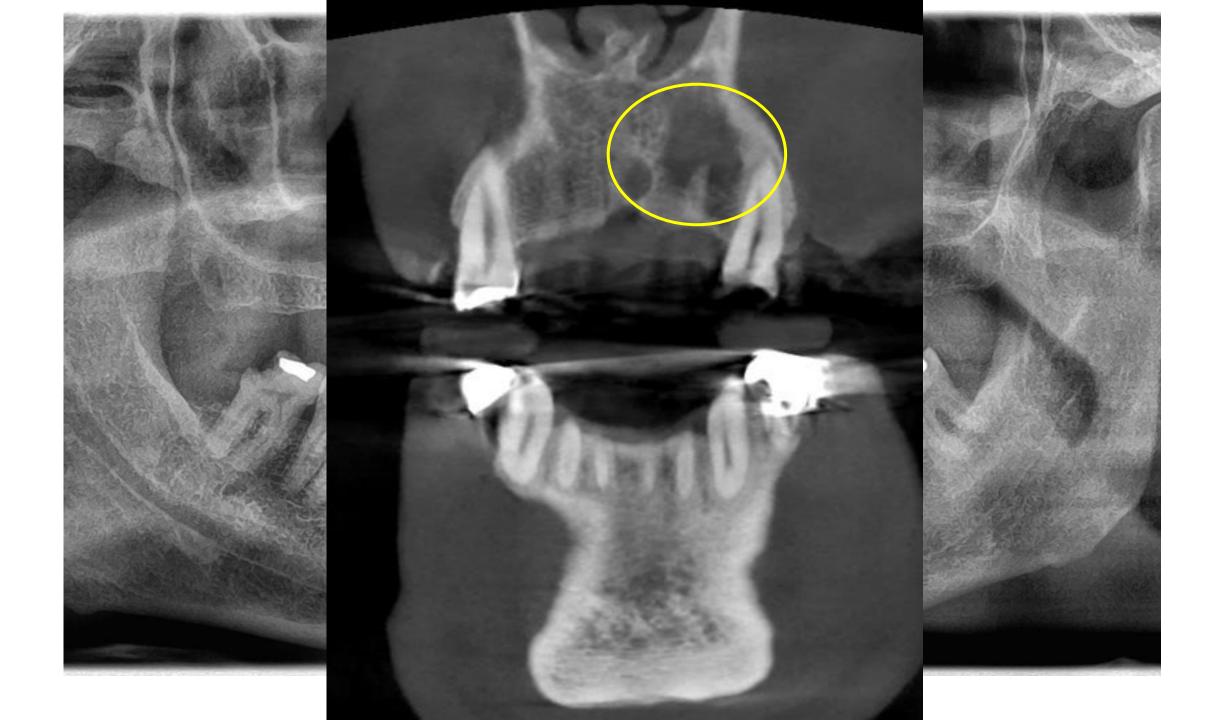
Prevalence of Lateral Radiolucency, Apical Root Resorption and Periapical Lesions in Portuguese Patients: A CBCT Cross-Sectional Study with a Worldwide Overview

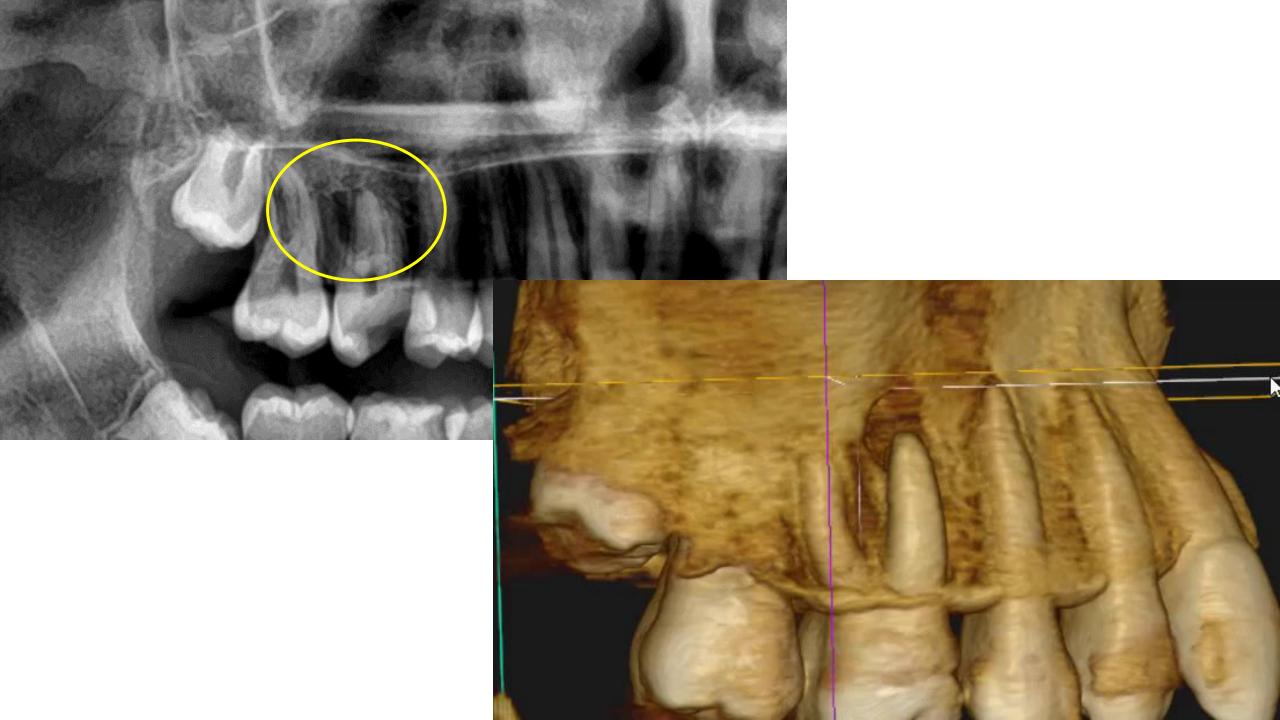
João Meirinhos¹, Jorge Martins¹, Beatriz Pereira², Abayomi Baruwa², António Ginjeira¹

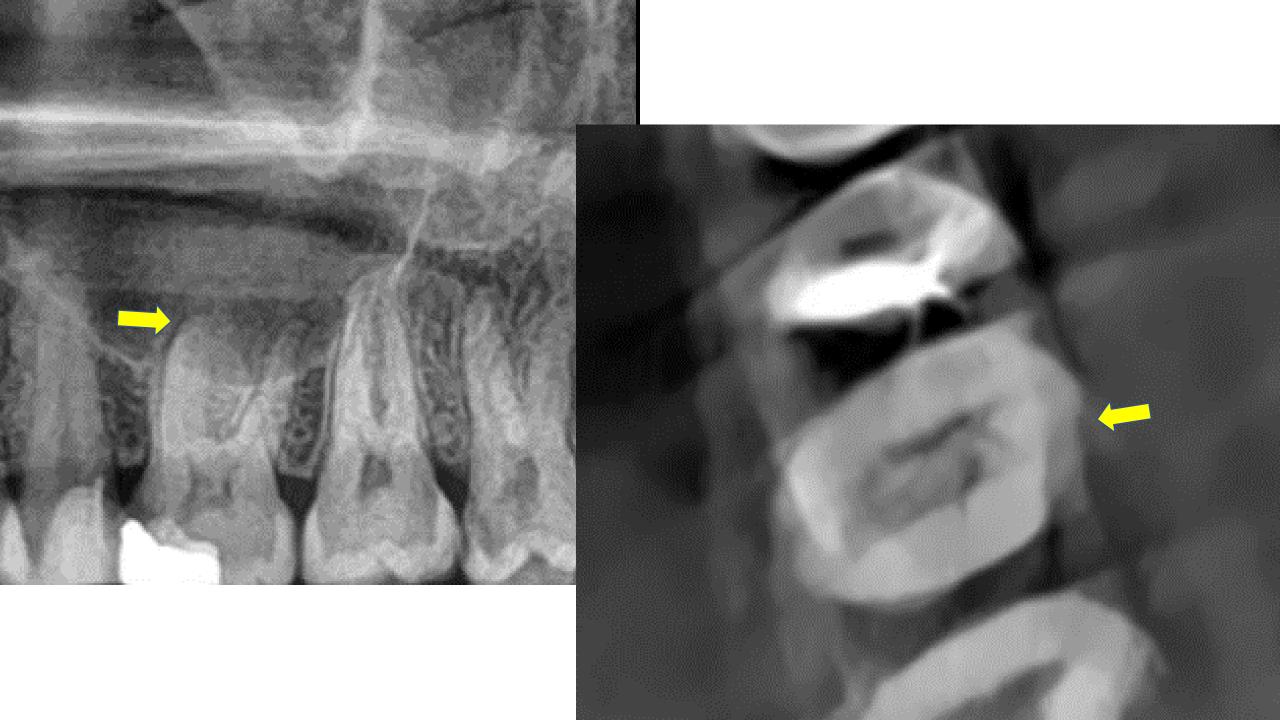
Lateral lesions 0-0.9% Apical root resorption 0-3% Periapical lesions 4.1-13%



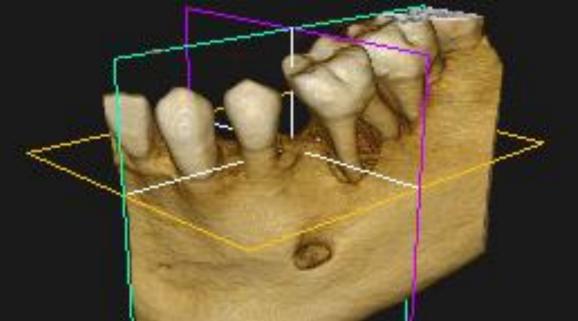


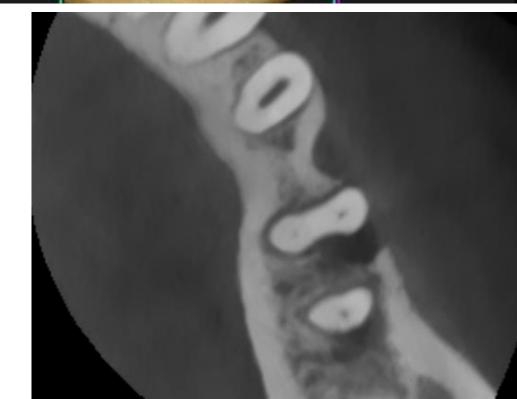






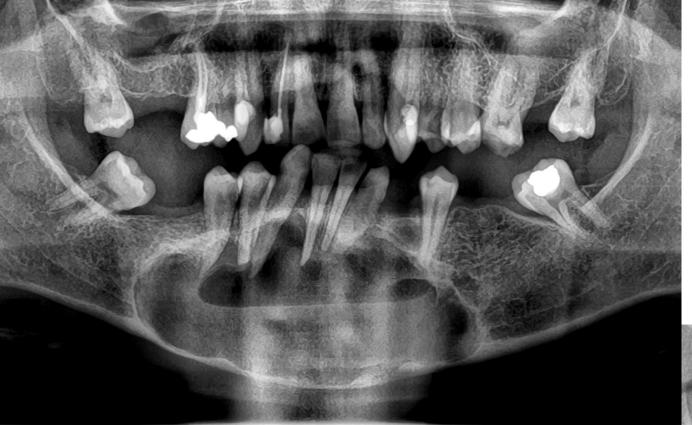


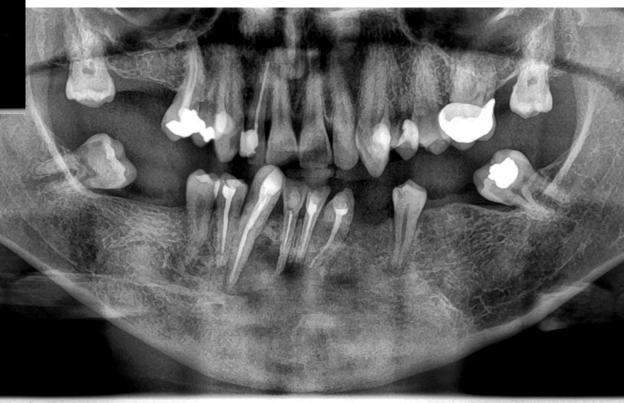


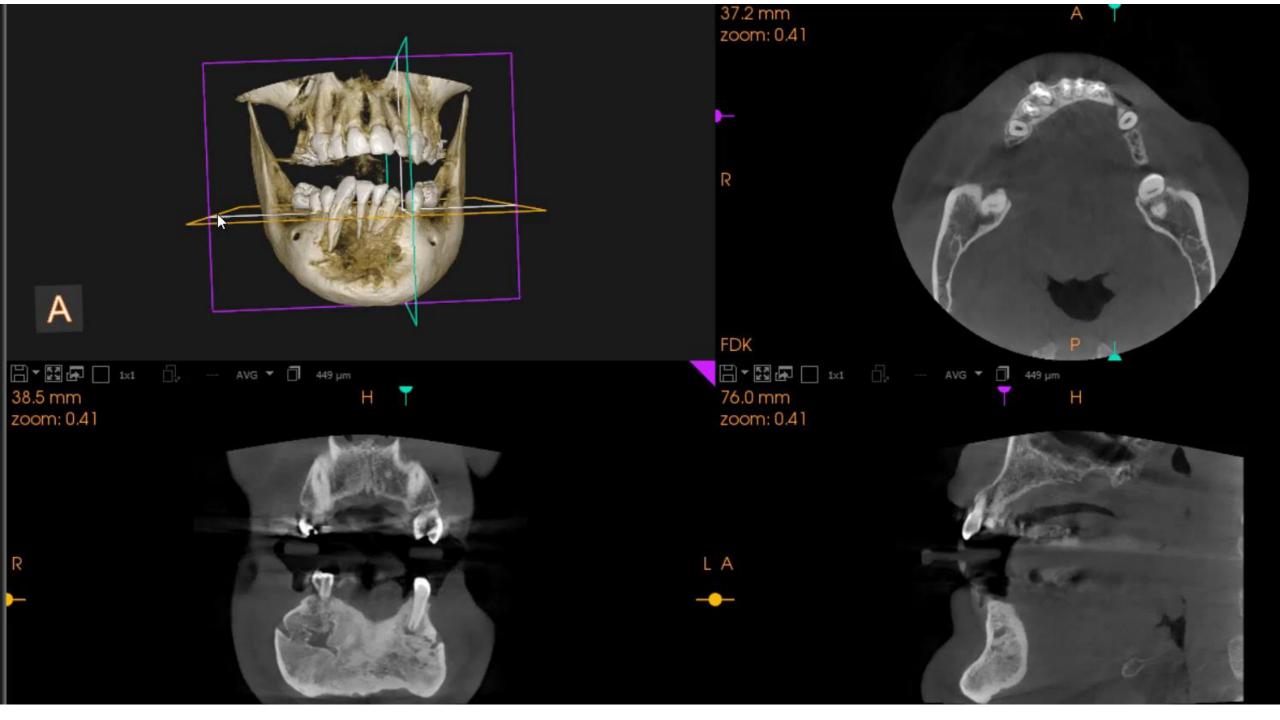


Endodontic

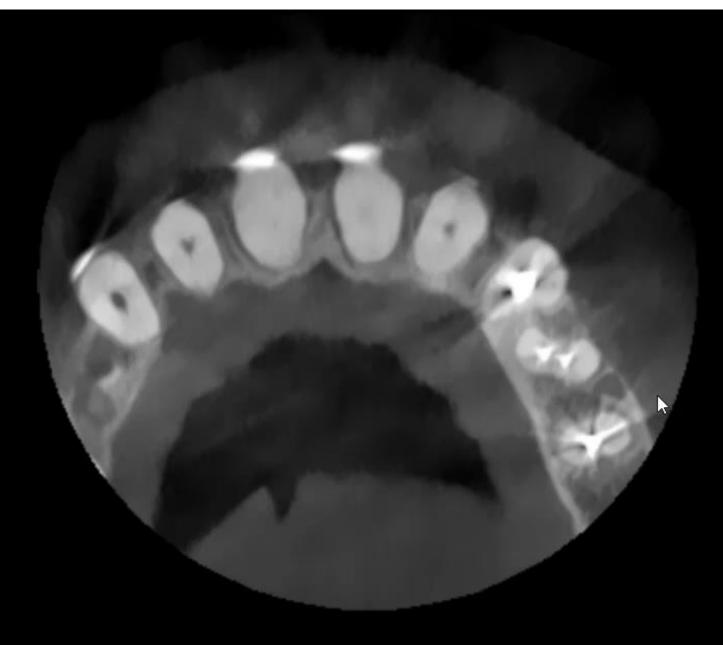
Surgery







Root canal sclerosis





جمحية حشوات الجذور الحراقية Iraqi Endodontic Society

Joined -

3

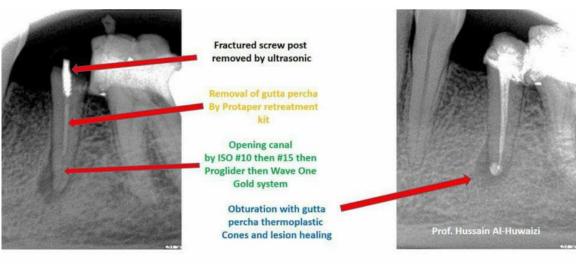
Hussain Al-Huwaizi added a new photo. 5 MINS • GURGAON, HARYANA • 🚱

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Management of multiple problems in poorly treated tooth

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for the future

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Achieving endodontic excellence



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Endodontic Microsurgery - Part I. Dr. Raed AlDelayme	Tips and tricks for management of calcified	Endodontic Emergency Treatment	Periapical Lateral lesion healing	Overfilling in Endodontics Part I	Root canal instrumentation strategies by Prof Dr Said	Treatment of a root canal perforation.	Retreatment in Endodontics by Dr. Viresh Chopra	Bypassing a separated instrument in a root canal	Apical Seal in root canal obturation by Prof. Dr
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