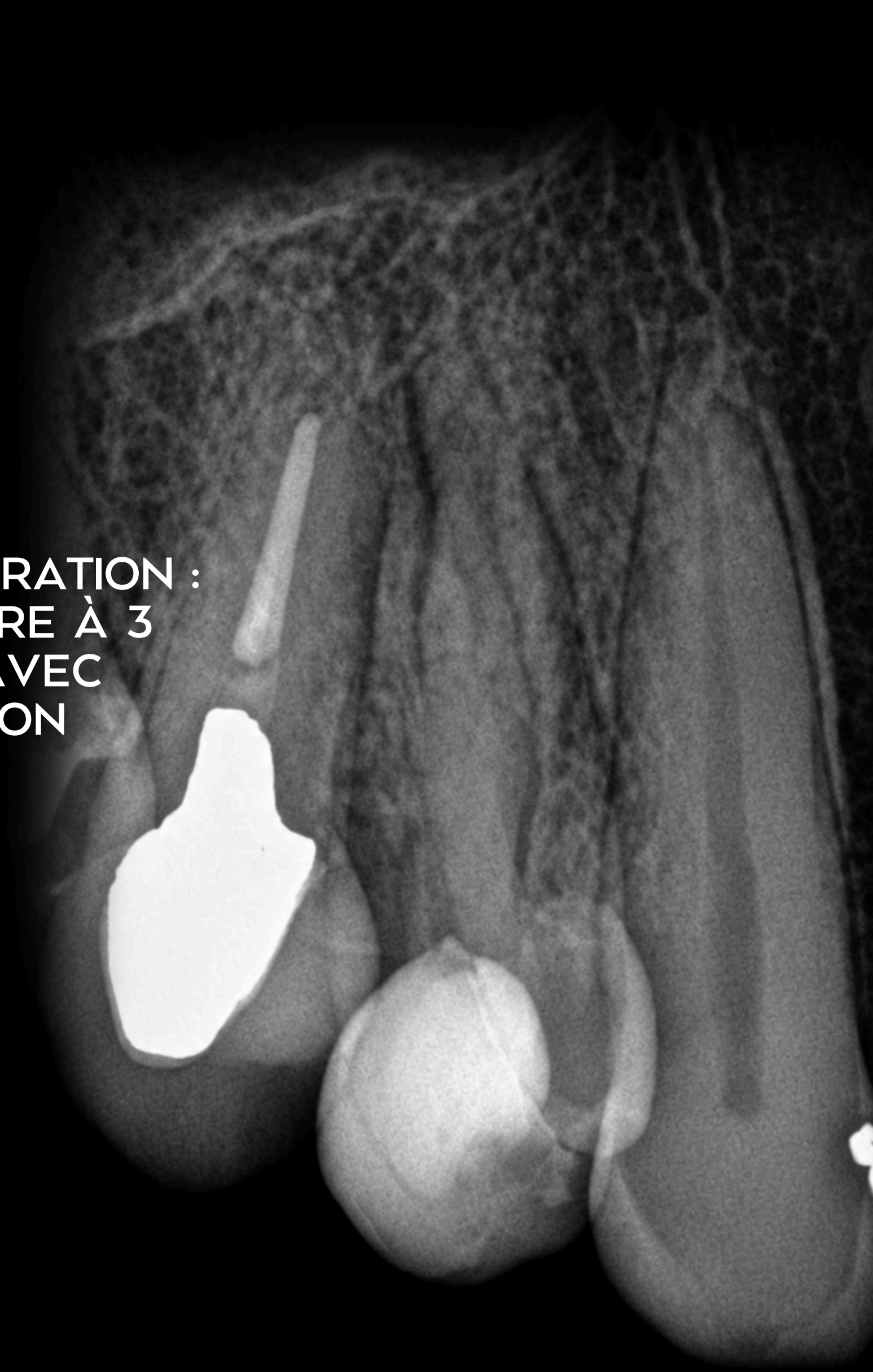
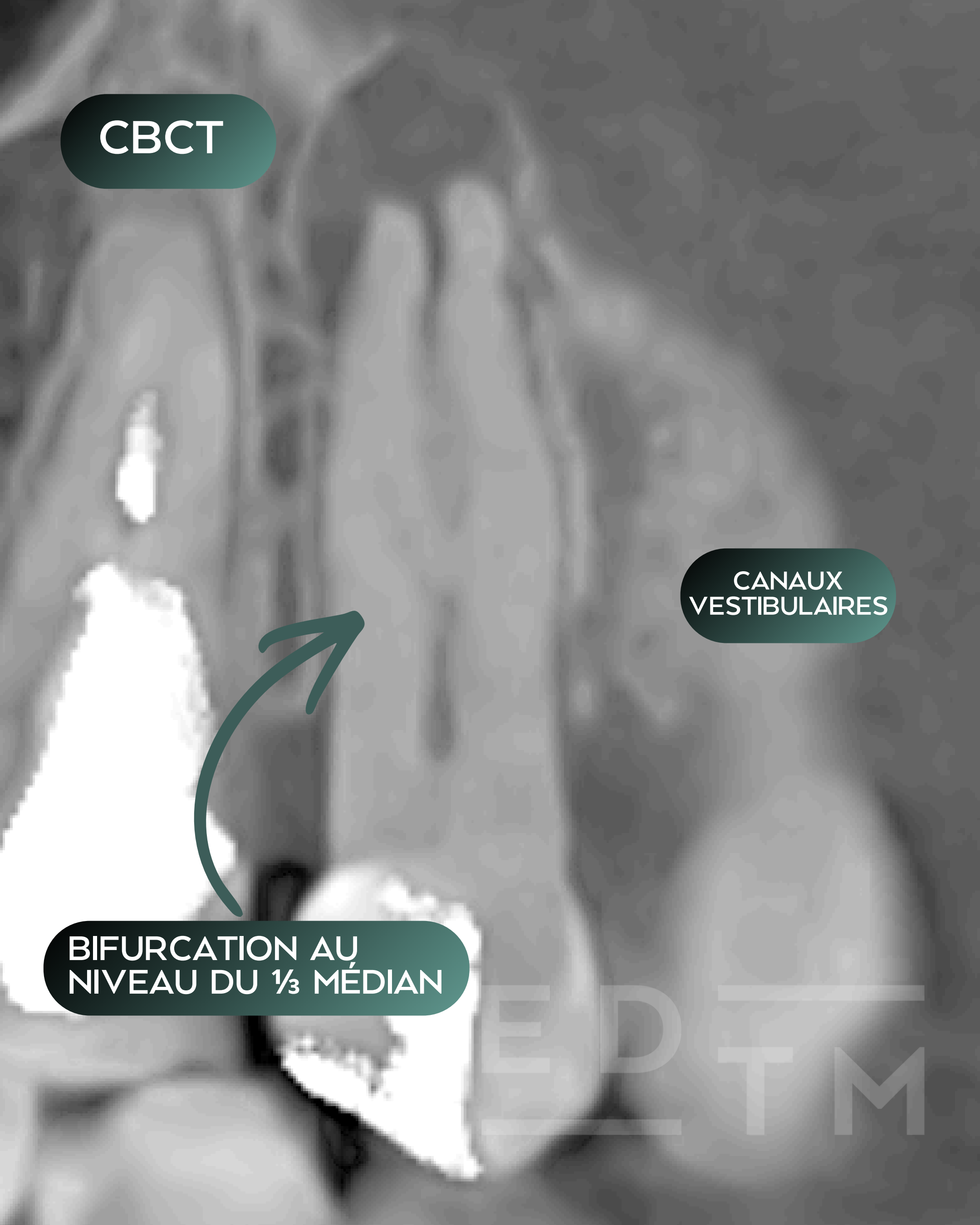
CAS

TIPS OBTURATION : PREMOLAIRE À 3 CANAUX AVEC BIFURCATION BASSE



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CBCT
CANAUX VESTIBULAIRES
BIFURCATION AU NIVEAU DU ⅓ MÉDIAN

Mise en place du ciment

Mise en place du cône DV dont la partie coronaire a été coupée

Création d'un espace pour l'insertion du 2ème cône

Mise en place du 2ème cône vestibulaire

INCIDENCE DU 3ÈME CANAL : 0 À 6%

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Iranian Endodontic Journal

Endodontic Considerations in Three-canalled Premolars: A Practical Update

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ABSTRACT

The most difficult clinical considerations in orthograde root canal treatment are generally related to the anatomy of the teeth. Three-canalled maxillary and mandibular premolars (mini-molars) have been reported in several studies. The purpose of this paper was to review various aspects of three-canalled premolars including incidence, clinical and radiographic diagnosis, racial predisposition, access cavity preparation, instrumentation and obturation.

Keywords: Mandibular Premolars; Maxillary Premolars; Mini-Molars; Root Canal Anatomy; Three-Canalled Premolars

Introduction

Consistent, high levels of success in endodontic treatment require an understanding of root canal anatomy and morphology. To achieve endodontic success, the entire root canal system must be debrided, disinfected and obturated. The clinician must have a thorough understanding of normal anatomy common variations from the norm. The clinician must also be prepared to identify those teeth that tend to vary greatly from the norm, e.g. mandibular premolars [1].

Materials and Methods

Retrieval of Literature

A Medline search was performed through the English articles published from 2000 to 2014. The searched keywords included "Three-Rooted Premolar", "Three-Canaled Premolar", "Three Canals AND Premolars", "Three-Canals AND Maxillary Premolars", "Three Canals AND Mandibular Premolars" and "Radiculous". Then, a hand search was done in the references of result articles to find more matching papers.

Results

A total of 470 articles were found which in descending order of their related keywords are "Three-Rooted Premolar (34)", "Three-Canaled Premolar (2)", "Three Canals AND Premolars (241)", "Three Canals AND Maxillary Premolars (63)", "Three Canals AND Mandibular Premolars (125)" and "Radiculous (5)".

Discussion

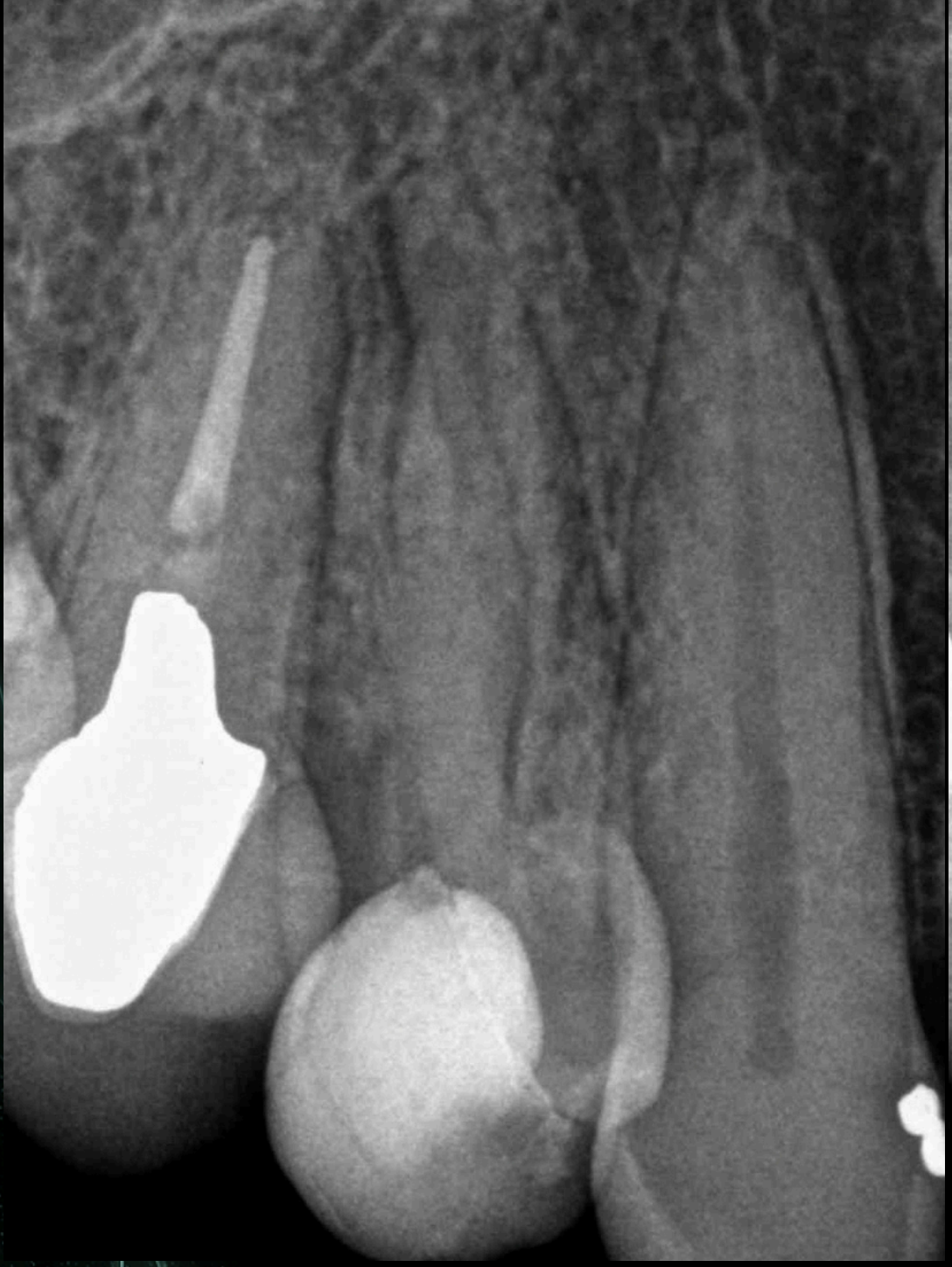
Incidence in maxillary premolars

The root canal anatomy of three rooted maxillary premolars is very similar to that of maxillary molars. Therefore, the terms mini-molars and radiculous have been used to describe them [2, 3].

Maxillary first premolars have two root canals in 50-90% of cases. However, one and three root canal have also been reported. In 10-50% of cases, one root canal has been reported [4].

Maxillary first premolars may possesses three root canals as well (mesiobuccal, distobuccal and palatal), the incidence of which varies from 0 to 6% [3, 5, 6] (Tables 1 and 2).

For second premolar, laboratory studies have demonstrated a lower incidence of three root canals which is between 0.3 and





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