

Function & Symptoms

97% of 1.4 million teeth were functional 8 years following non-surgical root canal treatment

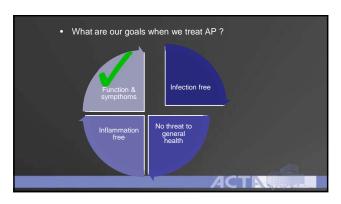
Salehrabi & Rotstein 2004 JOE

The success of endodontic therapy-healing and functionality.
Friedman S, Mor C.

Functionality = 86-92%

Friedman & Mor 2004 J Calif Dent Assoc

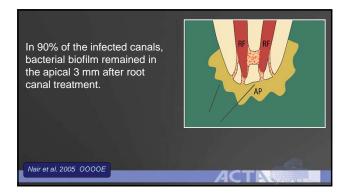




Bacteria recovered from teeth with apical periodontitis after antimicrobial endodontic treatment.

Once established, nonmutans streptococci, enterococci and lactobacilli appear to survive commonly following root-canal treatment of teeth with clinical and radiographical signs of apical periodontitis.

Chavez de Pas et al. 2003 IEJ





Lesions of endodontic origin and risk of coronary heart disease.

"These findings are consistent with research that suggests relationships between chronic periodontal inflammation and the development of CHD, especially among younger men."

Endodontic variables and coronary heart disease. "This cross-sectional study did not reveal a significant association between endodontically treated teeth and CHD nor between teeth with periapical disease and CHD." Frisk et al. 2003 ACTA odontol Scand

Apical periodontitis and cardiovascular diseases: previous findings and ongoing

RESULTS AND CONCLUSIONS:

- (i) Poor oral health and endodontic infections are associated with cardiovascular diseases, and endodontic infection appears to be associated with initial endothelial
- (ii) preventive measures for IE should be adopted during endodontic treatment of patients at risk for cardiovascular events according to the American and European available official guidelines, and
- (iii) more research focused on apical periodontitis and systemic diseases is needed.

Association of Endodontic Lesions with Coronary Artery Disease

"Our findings support the hypothesis that LEO's are independently associated with coronary artery disease and in particular with acute coronary syndrome"

Liliestrand et al. 2016 JDR

The impact of Endodontic Infections on the pathogenesis of Cardiovascular disease : A systematic review with meta- analysis using GRADE

"Whether the presence of a lesion of endodontic origin may or may not have some impact on cardiovascular disease, the level of evidence is low, and our confidence in the assessment is low".

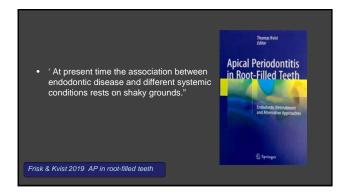
Aminoshariae et al. 2018 JOE

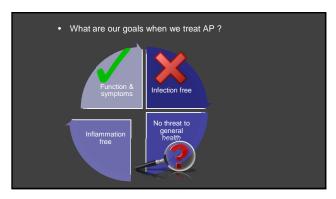
Endodontics and diabetes: association versus causation.

...once a significant statistical association has been found ..., it is necessary to exclude the presence of bias, which would imply that the association is artefactual, and to analyze if the causation criteria defined by Hill (1965) are fulfilled to establish a causal relationship. Only if they are satisfied, can it be concluded that the association is causal.

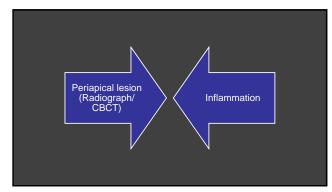
Segura Egea et al. 2019 IEJ in print

Association Between Periodontal Disease and Erectile Dysfunction: A Systematic Review It is emphasized that physicians should refer patients with ED to oral health care providers for a comprehensive oral evaluation and treatment. There are several confounders, such as age and the type of ED, that failed to be adjusted and that generate bias and affect the correlation between the incidence of ED and PD. Kellesarian et al. 2016 Am J Mens Health ACTION









Diagnostic accuracy of CBCT used for assessment of apical periodontitis: an ex vivo histopathological study on human cadavers.

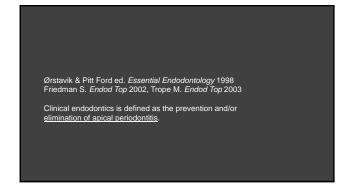
Diagnostic accuracy of CBCT used for diagnostic accuracy of CBCT used for diagnostic accuracy of the tooth.

CBCT had significantly higher diagnostic accuracy in detecting AP compared to PR

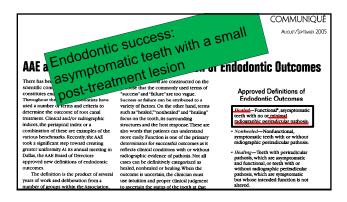
Kruse et al. 2019 IEJ

Kanagasingam et al. 2017 IEJ





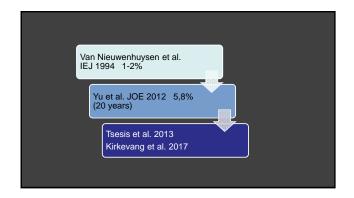




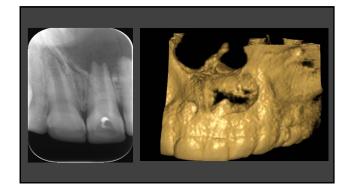












Paresthesia of the mental nerve after an acute exacerbation of chronic apical periodontitis.

Gilbert & Dickerson 1981 JADA

Apical infection spreading to adjacent teeth: a case report.

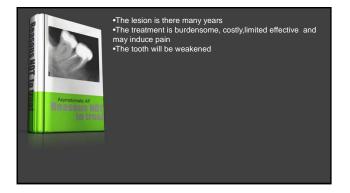
Kombayashi et al. 2011 0000E

Risk of severe events, requiring hospitalization because of a root filled tooth with AP is extremely small and is estimasted to be around 1:200,000

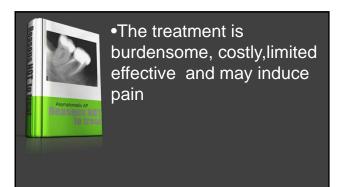
Hospital-based Emergency Department Visits with Periapical Abscess: Updated Estimates from 7 Years.

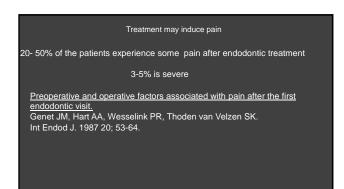
Rampa et al. 2019 JOE











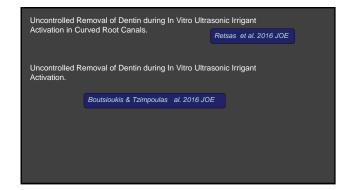


Influence of Irrigation Sequence on the Adhesion of Root Canal Sealers to Dentin: A Fourier Transform Infrared Spectroscopy and Push-out Bond Strength Analysis.

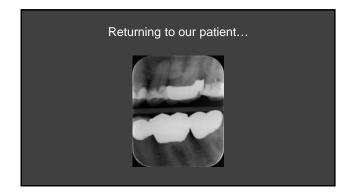
Neelakantan et al. 2015 JOE

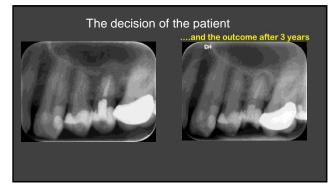
Fracture Strength of Endodontically Treated Teeth with Different Access Cavity Designs.

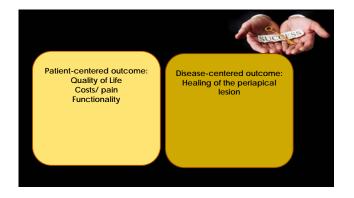
Plotino et al. 2017 JOE

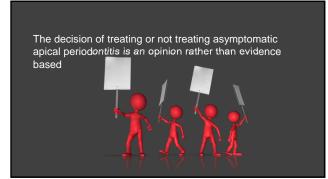












Hopefully, we can soon agree on a set of criteria for a clinical decision, until more evidence becomes available

Keinan et al. 2011 JADA

Keinan et al. 2011 JADA

