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- An evaluation of endodontically treated VRF teeth: impact of operative procedures. Fuss Z et al. 2001
- An evaluation of endodontically treated VRF teeth.
 Tamse A et al. 1999
- Prevalence of VRF in extracted endodontically treated teeth.
 Fuss Z et al. 1999
- Radiographic features of vertically fractured, endodontically treated maxillary premolars. Tamse A et al. 1999

Tamse, Fuss 1999-2001

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An evaluation of endodontically treated vertically fractured teeth.

- Survey of 92 teeth with VRF evaluated before and after extraction .
- Most fractured : maxillary 2nd premolars and mesial roots of the mandibular molars
- 67.4% -solitary buccal pocket
- 34.8% -sinus tract
- 52% -lateral radiolucency (with or without periapical radiolucency)

Tamse et al. JOE 1999

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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."

Caplan et al. 2006 JDR

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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

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

"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

































































































The partial retreatment

 When we preform apical micro-surgery we only treat the "involved" root. Why then can't we do that with orthograde retreatment?



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Association between patient-, tooth- and treatment-level factors and root canal treatment failure: A retrospective longitudinal and machine learning study.

Predicting failure was only limitedly possible, also with more complex Machine Learning.

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J Dent 2022 : Herbst et al.

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