Title : Restorations and Survivability of Endodontically Treated Teeth

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Aims: Crowns have been considered the restoration of choice for endodontically treated teeth. This study tested, which restorations are associated with improved survivability of endodontically treated teeth.

Materials & Methods: King Khalid University College of Dentistry (KKUCD) treatment database was used to identify permanent posterior teeth that had undergone endodontic treatments in the year 2008. 375 patients were treated by students and specialist in KKUCD, 101 patients (121 teeth) were included under the criteria of age and tooth type. Patients were recalled and examined their type, quality of restorations and endodontic lesions healing status.

Results: The 121 teeth, 65 treated by specialist and 56 by students. 46 were crowned, 39 amalgam restored, 25 composite restored, 6 glass ionomer restored and 5 extracted. Successful cases which had good quality restorations and successful endodontic healing, 30 cases of the crowned teeth, 19 cases of the amalgam, 9 cases of the composite and 1 case of the glass ionomer. Survival cases which had acceptable to good quality restorations and uncertain to successful endodontic healing, 45 cases of the crowned teeth, 37 cases of the amalgam, 23 cases of the composite and 2 cases of the glass ionomer. The 5 extracted teeth were not crowned and there was no significant difference between the treatment done by specialist or students on the endodontic lesion healing but there was significant difference on the coronal restorations quality.

Conclusion: Within the limitations of this study, a strong association between the presence, type, quality of the restorations and the endodontic success and survivability. Crowns placement improved the success (65%) and survivability (98%) of endodontically treated teeth.