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## The Effectiveness Of Using Digital Scanning Method For Reducing latrogenic Damage To The Adjent Teeth Surfaces During Class II Cavity Preparations

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## **Abstract**

To evaluate the efectiveness of digital scanning methods in dental education to reduce the rate of damage to the adjent teeth in CL II cavity preparations Materials and Methods: As a part of cavity preparation lecture; after teaching them how to open cavities without any deformation to the adjent teeth; 245 Dental students were asked to prepare classical Class II cavity preparations both in maxiller and mandibular frst molars in phantom models. Mesioocclusal class II cavities for maxiller frst molar-16 were performed and disto-occlusal Cl II cavities performed for mandibular 1 molar-36. All adjent phantom teeth surfaces were examined using visual examination then randomly 50 phantom models were selected and all adjent phantom teeth surfaces of that selected group were examined using 3D digital scanning methods. Examination of teeth surfaces were done by calibrated individual examiners in all groups. After examination, 50 selected performance owners were informed about their latrogenic damages. All 245 dental students were taken under a course again to teach them how to reduce iatrogenic damages for class II cavity preparations. The same procedures were repeated and students were asked to do same the work with the same teeth. Damages were scored as 0= no damage, 1= abrasion 2= injury <50% of surface, 3= injury > 50% of surface. Results: A rate of nearly 27 % less damage was found to the adjent teeth with the group that was shown their mistakes by digital scanning methods. After 2 courses, we still obtained iatrogenic damages Conclusion: According to our results of damage to the adjent teeth in CL II cavity preparations, additional teaching of protection of these surfaces is needed to reduce the rate. Also, the use of 3D scanning methods seems to be helpfull for us to obtain more successful results from cavity preparation teaching without the iatrogenic damages of adjent teeth.

## **Biography**

Hikmet SOLAK has completed his PhD in Ankara University, Faculty of Dentisty in 1985 He became Professor in 2002. In 2007 he joined Near East University as a Founder of Faculty of Dentistry. In 2019 he joined to Eastern Mediterranean University Faculty. He currently working as Professor of Restorative Dentistry Department

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