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Ultrasonic Excavator. It will be easily to penetrate, remove in caries and defective dentine which decrease traumatic injury through connecting ultrasonic wave to excavator tip

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The aim of this study is to prove the effectiveness of this device that have been developing. The ultrasonic excavator will be easily used to penetrate in caries and defective dentine which will decrease traumatic injury through connecting ultrasonic wave to excavator tip.

Objectives: Remove the caries and defective dentine with less trauma, and laceration to the pulp tissue, also, to reduce heat generation, vibration, noise and the hand pieces pressure applied on the tooth that come from air driven by using ultrasonic excavator According to Laird and Walmsley in the solution for all problems that are mentioned above.(1991) it is possible to use ultrasound without the resource of analgesia. And according to A.g.Antonio, L.g.primo and L.c.maia (case report 2005) the ultrasonic technique is the only one able to remove carious dentine without the formation of a smear layer and the consequent obstruction of dentinal tubules, and in same case report he said about using the ultrasonic technique for caries removal it is provides more safety during the treatment and offering comfort to the patient. And according to Ming-shu I (2013 animal study) if we make perforation on a tooth by ultrasonic device is better than making it by air driven handpieces based on the bleeding level, histologically and time to become a necrotic pulp after perforated.

As conclusion: According to my experience when I used the ultrasonic excavator to excavate the caries and defective dentine for two molars extracted teeth, it proved to me the device can removed a caries and defective dentine. But the device under development and there is a trial version of it and also I have patent application from Saudi patent office, number 116380118.

Biography

Altukroni, Abdalbadea Abdulrahman M has completed his bachelor at the age of 24 years from October 6 University and his work now in ministry of health in Saudi as a resident dentist.

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