

## Emergency treatment with diode laser for endodontically treated tooth with periapical abscess comparing with traditional surgical treatment

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**Aim:** To investigate sign and symptoms, bactericidal effect for using diode laser 810 nm and calcium hydroxide, povidone iodine on endodontically treated tooth with periapical abscess.

**Material & Method:** Patient with tooth no.9 failed endodontic treatment with periapical abscess, X-ray, diode laser 810 nm, water irrigation, calcium hydroxide, povidone iodine, removing gutta-percha from infected tooth, reaming and filling, laser fiber passed over the apical foramen 2 mm, 4 mm according to the size of lesion, lasing 2 seconds then stop for 4 seconds with water irrigation to avoid over heat, till 20 seconds of lasing completed, apply calcium hydroxide dressing with povidone iodine, examine patient sign and symptom during 8 days, X-ray after 6 months.

**Result:** The patient shows no swelling, severity of pain became less, however antibiotic and analgesic are recommended.

**Conclusion:** Using diode laser in periapical abscess if we reach this area had less traumatic effect than using a flap, less healing time, with cooling technique consideration, and calcium hydroxide and povidone iodine with bactericidal effect on the lateral canal, we will get fine result.

### Biography

Dheyaa Najah Obada was graduated from University of Baghdad, College of Dentistry, started researching in 2003 on APEX LOCATER made by him, in MOROCCOR specialized dental center, in 2005 he made research on bleaching effect and post operative pain, in DIYALA, from 2006 till 2017 he continue his researches on methods and technique that improve the success rate for endodontic treatment with fellow up for 10 years in his private clinic in al-sader city.

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