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## *Dheyaa N Obada*

*Baghdad University, Iraq*

### Nano surgical treatment for anterior teeth with large periapical lesion

**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.

**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 good results.

### Biography

Dheyaa N Obada has completed his Dentistry graduation from Baghdad University, Iraq. He has started his research on Apex Locator made by him, in Morocco Specialized Dental Center and in 2005 he made research on bleaching effect and post-operative pain. He continues his researches on methods and technique that improve the success rate for endodontic treatment.

[dhianajah@yahoo.com](mailto:dhianajah@yahoo.com)

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