

Low-intensity laser, an experimental study. Egyptian Dental Journal, 46 (3): 1073-1079, July, 2000.

Abstract:

Low reactive level laser therapy (LLLT) has recently been reported as a medical therapy. It produces a stimulating effect on bio-chemical and molecular processes that normally occur in tissues such as healing and repair. The aim of this study was to evaluate the postoperative effect of LLLT irradiation by intra-oral direct digital radiography and histologically by creation of a bone defect in superior mandibular margin in 24 white rabbits bilaterally. The left surgical site in all animals was lased using Gallium Arsenide laser immediately and 48 hours postoperatively. The result clarified that increased bone density measurements and collagen deposition followed by an increase in new bone formation and absence of inflammatory cells in lased sites when compared to unlased sites throughout all the 1, 2, 3, 4, 5, 6, 7 and 8 weeks of study. However, there was no statistical difference between both groups throughout the examination periods.