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| **HISTOLOGICAL ASSESSMENT OF LASER EFFECT ON THE SKIN WOUND INCISION** | | | | Thesis Title |
| **2005** | | | | Year |
| **Abstract**  The aim of this research is to study and emphasize on the results achieved by the previous studies done on the effect of Low Level Laser Therapy on healing of incisional wounds in the skin of rabbits. The results where evaluated histologically. Forty four young male rabbits were prepared for this study. They were divided in to three groups, the first group consists of twenty rabbits was exposed to a HeNe laser, the second group consists of twelve rabbits was exposed to diode laser; the third group consists of eight rabbits which are regarded as a control group. Two lasers are used in this work. A 10mW HeNe laser (632.8nm), the power density was 0.14W/cm2 for different exposure time (30sec-120sec-180sec and 300 sec), with single and multiple dose. A diode laser (980nm) at power densities 5.1W/cm2- 2.6W/cm2 and 1.6W/cm2 with 120sec exposure time. A biopsy section was taken for all the laser groups and control group to prepare a histological slide at (1, 3 and 7 days) post operatively.  The results showed a clear promote of healing in treatment groups in comparison with control group. The best accelerate of wound healing was found in HeNe group at power density 0.14 W/cm2 at exposure time 120 sec. While for the diode laser group the best promote of wound healing was 5.1 W/cm2 with similar exposure time. | | | | Abstract |