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| **EFFECT OF LOW LEVEL LASER AND CHITOSAN POWDER ON THE ACCELIRATION OF WOUND HEALING IN RABBITS** | Research Title  |
| Single |  | Shared name  | Shared or Single |
| **Basrah Journal of Veterinary Research**  | Published Journal title  |
|  **No. 2(9)** | Volume Number |
|  | Page  |
| **2010** | Year |
| **ABSTRACT** Open wounds have lost the barrier that protects tissues from bacterial invasion and allow for the escape of vital fluids. The purpose of this study is to evaluate the enhancing of therapeutic effect of Low Level Laser (LLL) and chitosan on the acceleration of open wound healing. Forty four adult rabbits were used. They divided into four equal groups (I, II, III and IV). Wound was produced at the dorsal region by remove all thickness of skin at width of 3.5cm and of length 4 cm. Group I was left without treatment, while chitosan powder, laser therapy and chitosan powder with laser therapy were used in group II, III and IV respectively. Results of three groups were compared with control group. Morphologically it is revealed that contraction complete in four weeks post operation in treated groups the better and greater results occurred in groups IV then III, while histolopathologicl results at the period of 3, 7, 14, 21 and 28 days post operation reflected the presence of large number of fibroblast with formation of new blood vessels, also the collagen fiber become dense and regular in 14 days post operation in irradiated groups. In 21days there was formation of new and normal epidermal closed the rupture area of IV group. | Abstract |
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| **The effect of Low Level Laser Therapy on healing of the radius bone cavity in rabbit**  | Research Title  |
| Single |  | Shared name  | Shared or Single |
| **Ninth Conference of Veterinary Medicine**  | Published Journal title  |
|  | Volume Number |
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| **2009** | Year |
| **Abstract** Bone defect is one of the most important condition in Veterinary and human medicine. The purpose of this study is to demonstrate the biological effect of Low Level Laser Therapy (LLLT) on healing of the radius bone gap for twenty local male rabbit and evaluation the result by radiological and histopathological examinations.Were randomly selected Animals and distributed into two groups of ten animals each. * The first group: laser group (diod laser 805 nm) 1w power the exposure time (10 min).
* The second group: control group (non-irradiated).

The results showed evidence of a more advanced repair in the irradiated group when compared to the non-irradiated groups. In histopathological examination the repair of the irradiated group was characterized by increased bone formation within the cavity from the sex week after surgery we conclude that LLLT had a positive effect on the repair of bone defects. | Abstract |