

University of Baghdad

College Name	Institute of laser for postgraduate studies		
Department	Biomedical application department		
Full Name as written in Passport	ALI SHUKUR MAHMOOD		
e-mail	alidyni@yahoo.com		
Career	<input type="radio"/> Assistant Lecturer	<input type="radio"/> Lecturer	<input checked="" type="radio"/> Assistant Professor
	<input type="radio"/> Professor		
Research Title	Histological Healing Response of Soft Tissue Incisions Made by Diode Laser on Rabbits Skin		
Shared or Single	<input checked="" type="radio"/> Shared name	Mohammed Mahmood Jawad1), Mohammad Khursheed Alam1), Sarah Talib AbdulQader2), Lehadh Mohammed Al-Azzawi3), Adam Husein4), Ali Shukur Mahmood3	<input type="radio"/> Single
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Abstract	<p>Background: The goal of this study was to evaluate the histological healing response of soft tissue incision made by 940 nm diode laser (Ga Al As) on rabbits skin.</p> <p>Materials and Methods: Thirty one (31) rabbits were used, 15 incisions on the skin of each rabbit were made by diode laser of (1.5 W, 3 W, and 5 W) powers. The incisions were grouped into three major groups as scalpel incisions, 1.5 W, 3 W and 5 W laser incisions. A fourth group is a control group of normal rabbit skin. Each group was subdivided into seven subgroups according to the time of sacrificing the animals for evaluation which was on 12 h, 1, 3, 7, 14, 21, and 28 days respectively. Each subgroup was of 5 rabbits. The healing was early and normal without scarring histologically in incisions made by 1.5 W power laser as compared with 3 W and 5 W power laser incisions.</p> <p>Results and Conclusion: This study shows that the healing responses in incisions made by 1.5 W power of diode laser were better than that made by 3 W and 5 W powers of diode laser.</p> <p>KEY WORDS diode laser, soft tissue, tissue repair, clinical evaluation, histological evaluation, wavelength</p>		