

عنوان مقاله:

The Study of Effectiveness of Pulsed Dye Laser (PDL) With Wavelength of 585 Nanometer in Decreasing Surgical Scars of Thyroidectomy

محل انتشار:

سومین کنگره بین المللی و پنجمین کنگره ملی زخم و ترمیم بافت (سال: 1397)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Background information: During the past two decades Pulsed- dye Laser beam has been used for Hypertrophic and Keloid treatment of scars, which has been successful to various extents. This clinical trial randomized with control group was planned and carried out in order to study the impact of prophylactic use of (two weeks after surgery) PDL 585nm in minimizing thyroidectomy scars. Substances and Procedures: In this research study 60 patients who had underwent thyroidectomy, were randomly selected and exposed to low dosage of PDL 585nm(Overlapping at fluency of 10% J/cm² 8-10, narrow size of 7mm, pulse time impedance of 1/5-3 ms) . An assessment of Patients' scars was made both prior to the start of the process and during follow- up phases i.e. the end of the 1st and 2nd months and two months after the last laser beam exposed by an independent physician, using Vancouver Scar Scale (VSS) and preparation of standard photography. The output resulted from the research was analyzed by SPSS22 software, using descriptive statistical methods (frequency and percentages) and inferential statistics (Chi-Square statistical and Fisher Exact Test). A meaningful level of 0/05 was taken into consideration. Findings: Two months after the third laser radiation session, laser group lesions showed remarkable improvement in view of pigmentation, vascularity, flexibility and height. This difference was meaningful between treatment and control groups (p value<0.00), but no difference was observed in the two groups (p> 0.05) in view of the parameters under study which is associated to the type of string used in treatment groups. Conclusion: Outcomes of this randomized clinical trials show that prophylactic treatment of scar in three PDL 585nm laser radiation sessions with low dosage can be considered as a proper and immune methods in the improvement of pigmentation, vascularity, flexibility resulting from baseline of thyroidectomy

کلمات کلیدی:

PDL, Thyroidectomy, Scar, Pulsed-Dye Laser, VSS

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