

Treatment of some dermatological cases by laser therapy.

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Description

This study was aimed to evaluate the successful of skin laser therapy on some dermatological cases. A study was carried out on 327 patient suffering from different dermatological cases included the following cases; Port-wine stains 42 case, Hemangiomas 57 case, Wrinkles 61 case, Warts 82 case and Scars 85 case. All those patients were expected to Laser therapy applied on effected skin. The result showed 95.1% as a total healing percent among 327 different skin lesions. There were no significant differences in the healing percentages among the five cases. From this study we can conclude that, Laser therapy can give highly successful therapy against different diseases of skin. The skin is the body's largest organ, acting as a protective shield from the external environment. Many skin infections are not life-threatening, resources and energy go towards diseases that have greater impacts on human health [1]. An additional, albeit understudied concern, however, is the psychosocial and occupational effects of skin disease. The overall lifetime incidence of skin disorder was found to be 15 out of the 50 nations in Europe, with eczema (7.9 percent) and psoriasis (5.2 percent) topping the list of conditions, with vitiligo finishing behind them (1.9 percent).

As the climate has worsened in recent years, the number of cases of skin disease has risen. Concern over global warming has escalated to becoming a threat to the general welfare. The number of skin diseases has an on-going and day-to-day operation, requiring you to take care of the customer and helping the client maintain his or her quality of life [2]. Skin disorders are fourth of the most frequent causes of human injury, causing a huge burden of suffering without death.

Despite this, the warnings, often sick people should not go to a doctor. So the real incidence of skin disease may be greater, but it may not include those who go to the doctor. Patients, public and private institutions, and beauty salons are increasingly utilizing lasers and IPL equipment. The typical patients with such procedures are those with excess vessels (such as a port-wine stain), color (like for example, tattoos), skin disorders (psoriasis, skin cancers, etc.), and tumors. With such a diverse list of applications, it poses concerns about the impact, side effects, and appropriateness of laser and Intense Pulsed Light (IPL) treatments. This study aimed to evaluate the efficacy of Laser in treatment of some dermatological cases [3].

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The results showed 95.1% as a total healing percent among 327 different skin lesion. There were no significant differences in the healing percentages among the five cases (Table 1).

Type of skin lesion	No. of patient	No. of healed patient	Percentage
	42	40	0.95
Hemangiomas	57	50	0.877
Wrinkles	61	57	0.934
Warts	82	80	0.975
Scars	85	84	0.988
Total	327	311	0.951
Chi- Square value	--	---	0.94 NS
NS: Non significant at P<0.05			

Table 1. Results of usage Laser on different dermatological cases.

According to Goldman's initial study, modern dermatology might have access to a large range of laser equipment, sometimes very close to one another, that can treat a wide range of cutaneous diseases with absolute effectiveness and protection. Laser treatment of port-wine stains is based on selective photothermolysis of the affected vessels [4]. It has been reported that laser can treat most cases of port-wine stains successfully. As a consequence, laser systems are the most effective at removing fine wrinkles, especially around the eyes and mouth by activation of collagen production. It has been concluded that the absence of warts at far-flung locations means that the CO₂ laser therapy's effects modulate the immune system, expanding its use past mere excision or ablation. There are many laser devices on the market that can effectively treat different forms of scars. Specific patient and scar features are carefully analyzed to assess the right form of action for laser scar control [5]. The current results were in agreement with results of who reported that *via* photobiomodulatory operations, irradiating scars with low incident levels of laser energy, such as diode laser low level light therapy, may reduce symptoms such as discomfort and itchiness while also improving scar appearance. From this study we can conclude that, Laser therapy can give highly successful therapy against different diseases of skin.

References

- Hong J, Koo B, Koo J. The psychosocial and occupational impact of chronic skin disease. *Dermatol Ther.* 2008;21:54-59.
- Svensson A, Ofenloch RF, Bruze M, et al. Prevalence of skin disease in a population-based sample of adults from five European countries. *Br J Dermatol.* 2018;178:1111-1118.
- Dasari P, Nitin M, Thiyagarajan C. Hashimoto's Thyroiditis Presenting as Bilateral Ovarian Masses in an Adolescent. *J Sci Res Med Biol Sci.* 2021;2:81-85.

4. Oni G, Mahaffey PJ. Treatment of recalcitrant warts with the carbon dioxide laser using an excision technique. *J Cosmet Laser Ther.* 2011;13:231-236.
5. Ohshiro T, Fujino T. Laser applications in plastic and reconstructive surgery. *Keio J. Med.* 1993;42:191-195.

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