



## بسم الله الرحمن الرحيم

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# **The Efficacy Of The Light Emitting Diode In The Treatment Of Acne Vulgaris**

**A Thesis**

615, 82

Submitted in a Partial Fulfillment for the Requirements of  
Master Degree in Physical Therapy

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By

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## Dedication

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*I would like to dedicate this work to my dear father and mother for their unlimited love that gives me the power and support to continue and complete my work. Also I would like to dedicate this work to my brothers and colleagues for their love.*



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### ABSTRACT

**Purpose:** The current study was carried out to evaluate the efficacy of the combined blue and red light emitting diode (LED) in the treatment of acne vulgaris. **Methods:** - Forty patients with acne vulgaris were randomly divided into two equal groups (LED group and medication group). The methods of assessment included investigator's global assessment (IGA) and photographic method. For LED Group, they received LED therapy for two times/week for one month plus topical aknemycin (2 times/day) for one month while medication group received only topical aknemycin (2 times/day) for one month **Results:** - The results showed that there was significant decrease in acne counts in LED group compared with the control group. In relation to IGA and photographic method the study revealed that the results obtained in study group were superior to that of control group, **Conclusion:** - It was concluded that combined blue and red LED was effective in controlling of acne vulgaris lesion in expression of decreasing numbers of acne lesions and improving the appearance.

**Key words:** Acne Vulgaris, Light Emitting Diode (LED), Investigator's Global Assessment (IGA)





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