

## **Combination Treatment of Acne Vulgaris with 630 Nm Light Emitting Diode Therapy**

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Abstract:

Acne vulgaris is the most common skin disorder in adolescence. Various treatment methods, such as topical/oral antibiotics, topical retinoids, chemical peels and phototherapy, have been reported with various success rates. Recently the resistance to antibiotics necessitates the physician to seek novel treatment modalities. Since 2005, we have applied a 630 nm light emitting diode (LED)-based device for acne in addition to conventional treatments. the conventional treatments, consisting of CO<sub>2</sub> laser irradiation, dye laser irradiation, topical retinoids and topical/oral antibiotics, were performed for infectious lesions, and LED therapy was concomitantly performed once a week. Within 3 months, severe symptoms were improved and well controlled in all cases. the 630 nm LED irradiation seems to be an optional treatment in controlling the various grades of acne vulgaris.

LASER THERAPY. 2007, Vol. 16, No. 3, p.143-149 .