**Correlation between age and Regrowth scoring system (Global scale) after Application of Narrow Band Ultraviolet B versus Psolaren and Ultraviolet A in the Treatment of Alopecia Areata**

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**Abstract:** Alopecia areata is a complex genetic, immunemediated disease that targets anagen hair follicles, characterized by non scarring hair loss. With an enigmatic etiology, there is neither a permanent cure for alopecia areata nor a universally proven therapy inducing remission. Since Narrow band UVB have been used in treatment of autoimmune diseases as PUVA, it seems logical to study effect of narrow band UVB versus PUVA in AA. **Purpose of this study** was to determine a relationship between age and improvement in alopecia areata according to regrowth scoring system (Global scale) in patients treated with narrow band ultraviolet B (NB UVB) others with Psolaren ultraviolet A (PUVA). **Material & methods** Sixty patients with AA attending Department of Dermatology at Teaching Hospital were enrolled in this study; there were randomly divided into two groups (PUVA group and NB UVB group). All patients were examined clinically, then interviewed and detailed AA questionnaires were completed for each of them. All patients included in this study suffered from AA, which failed to response to conventional therapy. The most common site for AA found in the scalp. (PUVA group) received 3 sessions per week for 36 sessions and (NB UVB group) received 3 sessions per week for 36 sessions. The method of assessment wasRegrowth scoring system (Global scale). **Results** showed a significant difference between PUVA group and NB UVB group in percentage of Regrowth scoring system (Global scale) after 36 sessions as reflected by Chi-square test where p-value was (0.03)with PUVA group showed better improvement than NB UVB group but the Spearman's correlation analysis between age and Regrowth scoring system in both groups after 36 sessions revealed that there was a significant inverse correlation between age and Regrowth scoring system after 36 sessions where the r value equals (-0.66) and p-value was (0.0001).

**Conclusions** From the finding of the current study we concluded that there was an inverse correlation between age and Regrowth scoring system in patient with alopecia areata even after application of PUVA or NB UVB and PUVA has variable success in the treatment of AA than NB UVB

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**Key Words:** Alopecia areata, Global scale, PUVAand NB UVB