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Response of Bladder Reservoir Function to Low Level Laser Acupuncture in Primary Monosymptomatic Nocturnal Enuresis

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Abstract: Objective: To investigate the response of bladder reservoir function to low level laser acupuncture in primary monosymptomatic nocturnal enuresis. Materials and Methods: Fifty patients with ages ranging from 5-19 years were randomly assigned into two groups of equal numbers suffering from primary monosymptomatic nocturnal enuresis. Patients in group (A) received helium neon laser operating at a wavelength of 632,8 nm and 10 mW power on acupuncture points and behavioral therapy. While Patients in group (B) received sham laser (placebo) and behavioral therapy. Both groups were treated for one month (3 sessions/week) and were evaluated initially and every 2 weeks. Informed consent was signed by all patients. **Results:** There was a non-significant difference in the pre-treatment mean values of V_{avg} , V_{max} , V_n between both groups (A and B) where the p-value was (0.109), (0.192), (0.761) respectively. While there was a significant difference after 1 week of treatment where p-value was (0.04), (0.037), (0.013) respectively and finally there was a significant difference after 3 weeks of treatment where p-value was (0.005), (0.016), (0.003) respectively. The results of this study supports the expectation that low level laser acupuncture has an effect on bladder reservoir function and decreasing bedwetting in primary monosymptomatic nocturnal enuresis. Conclusion: low level laser acupuncture has an effect on bladder reservoir function in primary monosymptomatic nocturnal enuresis.

Key Words: (low level laser, acupuncture, primary monosymptomatic nocturnal enuresis).

Hussein Gamal Hussein Mogahed et al /Int.J. PharmTech Res. 2016,9(2),pp 30-39.
