A Laser Acupuncture with Lifting and Thrusting Functions

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Lifting and thrusting is one of the important manipulation methods in traditional acupuncture techniques, whereby several particular acupuncture technique can be derived to enhance the effectiveness of acupuncture. To our knowledge, however, few studies focused on this issue. The present system adopts a diode laser with wavelength of 808 nm and maximum power of 150 mW as the light source. By evaluating the images of light spot of the laser acupuncture head, we found that the movable distance of focused light spot is 5 cm (i.e. the range for lifting and thrusting is 5 cm). The focused light spot has a area of $6 \times 10^{-3} \text{mm}^2$, which is approximate the tip area of common acupuncture needle. A laser acupuncture with lifting and thrusting function has better effectiveness than that without lifting and thrusting function. In this study, two kinds of laser acupuncture (with / without lifting and thrusting) were used to stimulate Shenmen points of healthy subjects to study the ability for changing the meridian values for laser acupuncture with lifting-thrusting function. A Ryodoraku was used to acquire the values of left and right of the Heart and Small Intestine meridian. A paired t-test was performed and found that laser acupuncture meridians with lifting and thrusting can significantly improve the impact on meridian ($p < 0.05$). The laser acupuncture with lifting and thrusting functions can be further developed to achieve reinforcing and reducing functions by adjusting the intensity, mode, frequency, etc. This is an important progress of laser acupuncture.

Biography

Chih-Yu Wang has completed his PhD from National Yang-Ming University and postdoctoral studies from National Taiwan University. He is Professor of Department of Biomedical Engineering, I-Shou University. He has published more than 40 papers in reputed journals and has been serving as an editorial board member of repute.

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