



## Effect of Monochromatic Infrared Energy on the Neuropathic Median Nerve Post Burn

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**Abstract : Purpose:** to evaluate the efficacy of monochromatic infrared energy on the neuropathic median nerve post burn. **Method of evaluation** (Measurement of the median nerve motor conduction velocity in meter/ second). **Methods:-** Thirty patients (18 males and 12 females) ranging in age from 20 to 35 years, they were selected from the out-clinics of Kasr-El-Aini (Cairo University hospitals) and Om-Al-Misrieen hospital (Ministry of Health). They were divided into two groups; One experimental group and one control group) the experimental group formed of 15 patients to which the monochromatic infrared energy in addition to the traditional physical therapy program (rest, ice and pulsed ultrasound therapy) were applied, while the control group was formed of 15 patients to which only the traditional physical therapy program was applied. Every patient was relaxed in a comfortable supine position with two therapy pads of the monochromatic infrared energy (MIRE) unit were applied for the experimental group as follow; one therapy pad was positioned on the cubital fossa (elbow level) and the other therapy pad was placed on motor point (middle of the muscle) of the abductor pollicis brevis (APB). Each session of the monochromatic infrared energy (MIRE) was done for 20 minutes 3 times per week for 2 months as a total period of treatment. Measurements were conducted before starting the treatment as a first record and at the end of the second month of treatment as a second (final) record. **Results and conclusion:-** Results showed that application of the monochromatic infrared energy had a valuable improving effects on the neuropathic median nerve post burn as evidenced by the highly significant increases in the median nerve motor conduction velocity in meter/ second.

**Key words** (Monochromatic infrared energy, Neuropathic median nerve post burn and Motor conduction velocity).