

**EFFECT OF LOCAL LASER VERSUS LASER ACU-
PUNCTURE IN TREATMENT OF SHOULDER
IMPINGEMENT SYNDROME**

Thesis

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تأثير الليزر الموضعي مقابل الليزر على نقاط الوخز
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Abstract

Background: Shoulder impingement syndrome had a very high occurrence. **Purpose:** compare between local laser and laser acupuncture in the treatment of shoulder impingement. **Methodology:** Thirty patients aged between 25 to 40 years were assigned into three equal groups. Group (A) received laser over acupuncture points 3J/ point, group (B) received laser over trigger points 3J/point and group (C) received sham laser. The measurements are VAS, SPADI, and electrogoniometer. **Result:** laser acupuncture was more effective than local laser in treatment of shoulder impingement syndrome. **Conclusion:** Using laser acupuncture is effective treatment for shoulder impingement syndrome.

Key Words: Shoulder impingement, Laser, Acupuncture.

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List of Abbreviation

ADL	Activity of Daily Living
CSF	Cerebrospinal Fluid
DNIC	Diffuse Noxious Inhibitory Control
EM	Electromagnetic Waves
ENK	Enkephalins
Ga AL As	Gallium Aluminum Arsenide
Ga As	Gallium Arsenide
He Ne	Helium Neon
LI	Large Intestine Channel
LLLT	Low Level Laser Therapy
LU	Lung Channel
M	Marginal Cells
NIR	Near Infra Red
Nd- glass	Neodymium- doped Glass
Nd: YAG	Neodymium- doped Yttrium Aluminum Garnet
NSAID	Nonsteroidal anti-inflammatory drugs
NRM	Nucleus Raphe Magnus

PAG	Periaqueductal Grey Matter
PG	Prostaglandin
RF	Reticular Formation
SG	Substantia Gelatinosa
SPADI	Shoulder Pain and Disability Index
ST	Stalked Cells
TB	Triple Burner Channel
VAS	Visual Analogue Scale
WDR	Wide Dynamic Range

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