

بسم الله الرحمن الرحيم



HOSSAM MAGHRABY



شبكة المعلومات الجامعية التوثيق الالكتروني والميكرو فيلم



HOSSAM MAGHRABY

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

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تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



HOSSAM MAGHRABY

**Comparison between the Effects of ultrasound guided
local Insulin injections versus hydrodissection of
normal saline in Carpal Tunnel Syndrome
patients with diabetes mellitus**

A Thesis

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قالوا

لسببائك لا علم لنا
إلا ما علمتنا إنك أنت
العليم العظيم

صدق الله العظيم

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*✍ **Muhyadin Hassan Mohamed***

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List of Abbreviations

<i>Abbr.</i>	<i>Full-term</i>
ADM	: Abductor Digiti Minimi
APB	: Adductor pollicis brevis
BCTQ	: Boston Carpal Tunnel Questionnaire
CB	: Communication branch
CMAP	: Compound Muscle Action Potentials
CSA	: Cross-Sectional Area of median nerve
CSI	: Combined sensory index
CT	: Computed tomography
CTS	: Carpal tunnel syndrome
DM	: Diabetes Mellitus
DML	: Distal motor latency
DSL	: Distal Sensory Latency
DTI	: Diffusion Tensor Imaging
EDX	: Electrodiagnostic
FDP	: Flexor Digitorum Profundus
FDS	: Flexor Digitorum Superficialis
FSS	: functional status scale
HBA1c	: Hemoglobin A 1 C
HD	: Hydrodissection
IGF-1	: Insulin-like Growth Factor-1
MCV	: Motor nerve Conduction velocity

MGA	: Martin Gruber Anastomosis
MN	: Median Nerve
MNCS	: Motor Nerve Conduction Study
MRI	: Magnetic Resonance Imaging
NAP	: Nerve action potential
NCS	: Nerve Conduction Study
NCV	: Nerve conduction velocity
NGF	: Nerve Growth Factor
NPH	: Neutral Protamine Hagedorn
NS	: Normal saline
NUS	: Neuroultrasonography
Samp	: Amplitude, Sensory Amplitude
SD	: Standard deviation
SNAPs	: Sensory nerve action potentials
SNCS	: Sensory Nerve Conduction Study
SPSS	: Statistical package for social sciences
SSS	: Symptom Severity Scale
TCL	: Transverse Carpal Ligament
TSH	: Thyroid stimulating hormone
UA	: Ulnar artery
UN	: Ulnar nerve
US	: Ultrasonography
VAS	: Visual Analogue Score

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