# TENDON TRANSFER IN PALSIED HAND DEFORMITIES

Essay
Submitted for Partial Fulfillment of
Master Degree in
ORTHOPAEDICS

Вy

Mohamed Nabil Mohamed Ahmed M.B.B.Ch., Ain Shams University



Supervised By

### Prof. Dr. Ibrahim Saied Darwish

Professor of Orthopaedics
Faculty of Medicine
Ain Shams University

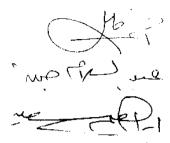
## Prof. Dr. Sherif Fathi Abd El-Hamid

Assistant Professor of Orthopaedics Faculty of Medicine Ain Shams University

## Dr. Tarek Mohamed Khalil

Lecturer of Orthopaedics
Faculty of Medicine
Ain Shams University

Faculty of Medicine
AIN SHAMS UNIVERSITY
1998





# Acknowledgment

# First of all, thanks to God

I wish to express my deepest gratitude and thanks to Professor Dr. Ibrahim Saied Darwish, Professor of Orthopaedics, Ain-Shams University, for giving me the privilege of being under his supervision and valuable suggestions to perform this essay.

His constant encouragement and constructive guidance were of paramount importance for the initiation and progress of this work.

I would like to extend my sincere thanks to Professor Dr. Sherif Fathi AbdCl-Hamid, Assistant professor of Orthopaedics, Ain-Shams University, for his meticulous remarkable effort, considerable help, which were major factors behind the completion of this essay.

Last but, not least, my deepest appreciation to Dr. Tarek

Mohamed Khalil for his kind help, valuable observations
and generous support.

Mohamed Nabil



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## List of Abbreviations

Scientific abbreviations:

AbDQAbductor Digiti Quinti. AbPBAbductor Pollicis Brevis. AbPLAbductor Pollicis Longus.

AdPAdductor pollicis. AHC Anterior Horn Cell, RRBrachioRadiallis. CMCCarpoMetaCarpal.

CPCerebral Palsy.

CPMContinuous Passive Motion. DIP Distal InterPhalangeal.

**ECRB** Extensor Carpi Radiallis Brevis. **ECRL** Extensor Carpi Radiallis Longus. **EDC** Extensor Digitorum Communis.

EDMExtensor Digiti Minimi.

**EDOP** Extensor Digiti Quinti Proprius. EIP Extensor Indicis Proprius. EPBExtensor Pollicis Brevis. EPLExtensor Pollicis Longus. FCRFlexor Carpi Radiallis. FCUFlexor Carpi Ulnaris.

**FDP** Flexor Digitorum Profundus.

FDS Flexor Digitorum Sublimis, Superficialis. FPB

Flexor Pollicis Brevis. FPLFlexor Pollicis Longus. IP InterPhalangeal. 10 Intelligence Quotient. MCP MetaCarpoPhalangeal. MPS MucoPolySaccharides. ODQ Opponens Digiti Quinti. OPOpponens Pollicis, PIP

Proximal InterPhalangeal,

PLPalmaris Longus.

pROMpassive Range Of Motion.

PTPronator Teres.

rERrough Endoplasmic Reticulum.

TCTriCeps.

### \* Mathematical abbreviations:

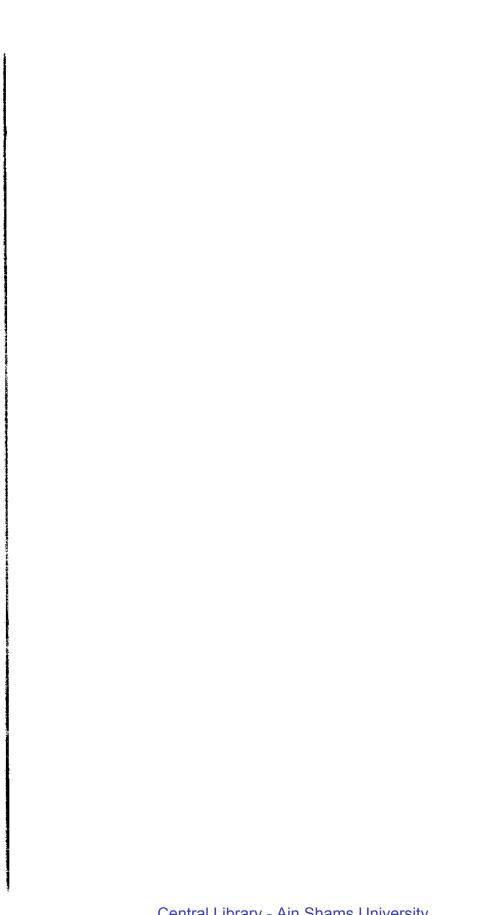
Cm.: centimeter. Mm.: Millimeter. Nm.: Nanometer.

Kgm.: Kilogram.

Kn.: Kilonewton. N.: Newton.



# Introduction & Aim of the Work



# Introduction and Aim of the Work

The hand's enormous capacity for adaptability has allowed primitive humans to make stone tools and modern humans to pilot complex aircraft (*Bender and Light*, 1996).

This is owing to the miraculous accuracy of the fingers in clasping and pinching to judge both power and space simultaneously (*Milford*, 1975).

The concept of providing a more equitable distribution of forces acting upon a disabled limb is the basis of tendon transfers. (Hovius, 1993).

So tendon transfer procedures may prove to be a viable option to restore balance and function of a disabled hand, with the extreme necessity to focus on specific protocol for each palsied hand. (Hoard et al., 1995).

The surgeon who attempts reconstruction of the palsied hand must have a precise knowledge of structural, functional anatomy and current methods of tendon transplantation, as an important line of treatment at this field. (*Riordan*, 1987).

The aim of this study is to mention the basics of operative and peri-operative tendon handling, using the transference techniques in the palsied hand as a field, as well as how to think systematically to capture the appropriate choice of the transfer, putting in mind the biomechanical disturbances that occurred.

# Anatomy of the Tendons

