شبكة المعلومات الجامعية

بسم اللّه الرحمن الرحيم

شبكة المعلومات الجامعية

@ ASUNET

HOSSAM MAGHRABY

شبكة المعلومات الجامعية

شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

HOSSAM MAGHRABY

شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها

علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات

يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار

HOSSAM MAGHRABY

شبكة المعلومات الجامعية

بعض الوثائق الأصلية تالفة

HOSSAM MAGHRABY

شبكة المعلومات الجامعية

بالرسالة صفحات

لم ترد بالأصل

HOSSAM MAGHRABY

A STUDY OF SKELETAL MATURATION IN RELATION TO CHRONOLOGICAL AND DENTAL AGES IN EGYPTIAN ADOLESCENTS

Thesis

Submitted In Partial Fulfillment Of The

Requirement For Master Degree In Orthodontics

By

Ghada Abdel Fatah El-Mehy

B.D.S

Faculty of Dentistry

Tanta University

1998

SUPERVISORS

Prof. Dr.

Samir Fouad Aboul Azm

Prof. of Orthodontics.

Head of Orthodontic Department

Faculty of Dentistry

Alexandria University.

Dr.

Medhat M. El-Sakhawy

Ass. Prof. of Orthodontics

Orthodontic Department

Faculty of Dentistry

Tanta University.

Dr.

Ahmed Yosry Abd Rabbo

Ass. Prof. of Orthodontics

Orthodontic Department

Faculty of Dentistry

Tanta University.

بسم الله الرحمن الرحيم

****

*وما أوتيتم *

* من *

*العلم إلا قليلا *

****

صدق الله العظيم

﴿سورة الإسراء﴾
الآية (٨٥)

ACKNOWLEDGEMENT

All thanks and deepest gratitude to **"ALLAH"** whose great and endless help guided me in my life as well as through all this work.

I wish to express my sincere gratitude to my supervisor ***Prof. Dr. Samir F. Aboul Azm.*** Professor and head of Orthodontic Department, Faculty of Dentistry, Alexandria University for his valuable sound advices, understanding, valuable supervision, continuos encouragement and guidance of this work to completion.

I am grateful to ***Dr. Medhat El-Sakhawy***, Ass. Prof. of Orthodontic, Faculty of Dentistry, Tanta University, for his great help, continuous guidance, patience, valuable supervision and advice through the course of this research.

I am also deeply grateful to ***Dr. Ahmed Yosry.*** Ass. Prof. of Orthodontic, Faculty of Dentistry, Tanta University, for his efforts, advices, wise guidance, understanding and encouragement.

I would like to thank ***Dr. Magdy Mashaly,*** Lecturer of Radiology Faculty of Medicine, Tanta University for his efforts while checking the cervical vertebrae on lateral cephalograms.

Last but not least, I would like to thank ***Dr. Abdel Aziz Yasen,*** Lecturer of Public Health, Faculty of Medicine, Tanta University for the effort he spent in doing accurate statistical analysis.

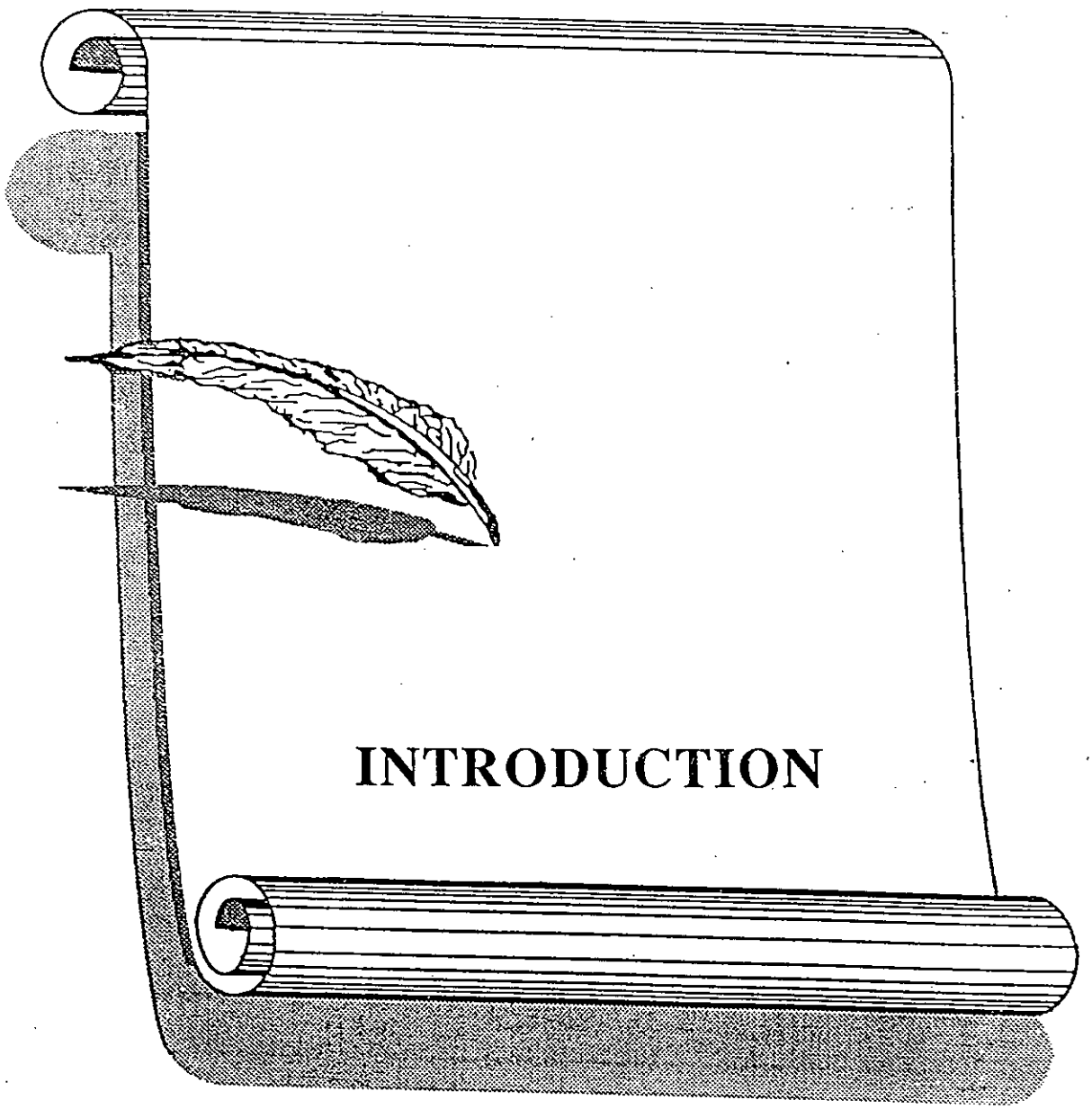
To my
Parents, Husband and
Son

Ghada

CONTENTS

List of figures & diagrams

List of Tables



INTRODUCTION