



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



شبكة المعلومات الجامعية
@ ASUNET



شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار

في درجة حرارة من ١٥-٢٥ مئوية ورطوبة نسبية من ٢٠-٤٠%

To be Kept away from Dust in Dry Cool place of
15-25- c and relative humidity 20-40%

بعض الوثائق الأصلية تالفة

بالرسالة صفحات لم ترد بالاصل



بسم الله الرحمن الرحيم

HEPATITIS C VIRUS INFECTION IN PATIENTS WITH SYSTEMIC LUPUS ERYTHEMATOSUS

THESIS

***Submitted for Partial Fulfillment of
The Master Degree In Internal Medicine
Presented by***

**Khaled Fathy El-Hasanein Badawy
M.B. , B. Ch.**

Under Supervision of

Prof. Dr. Mohamed Salah El-Din Abd El-Baky
*Professor of Internal Medicine
and Director of Rheumatology Unit
Faculty of Medicine , Ain Shams University*

Dr. Abd El-Azeem Mohamed Al Hefny
*Assistant Professor of Internal Medicine
Faculty of Medicine , Ain Shams University*

Dr. Kawther Mohamed Abdou
*Lecturer of Clinical Pathology
Faculty of Medicine , Ain Shams University*

**Faculty of Medicine ,
Ain Shams University
2002**

محمد صالح المنجد

دائماً معكم في كل حال

في كل وقت

قالوا ^{كانت} لا علم لنا إلا

ما علمتنا إني

أنت العليم

الحكيم

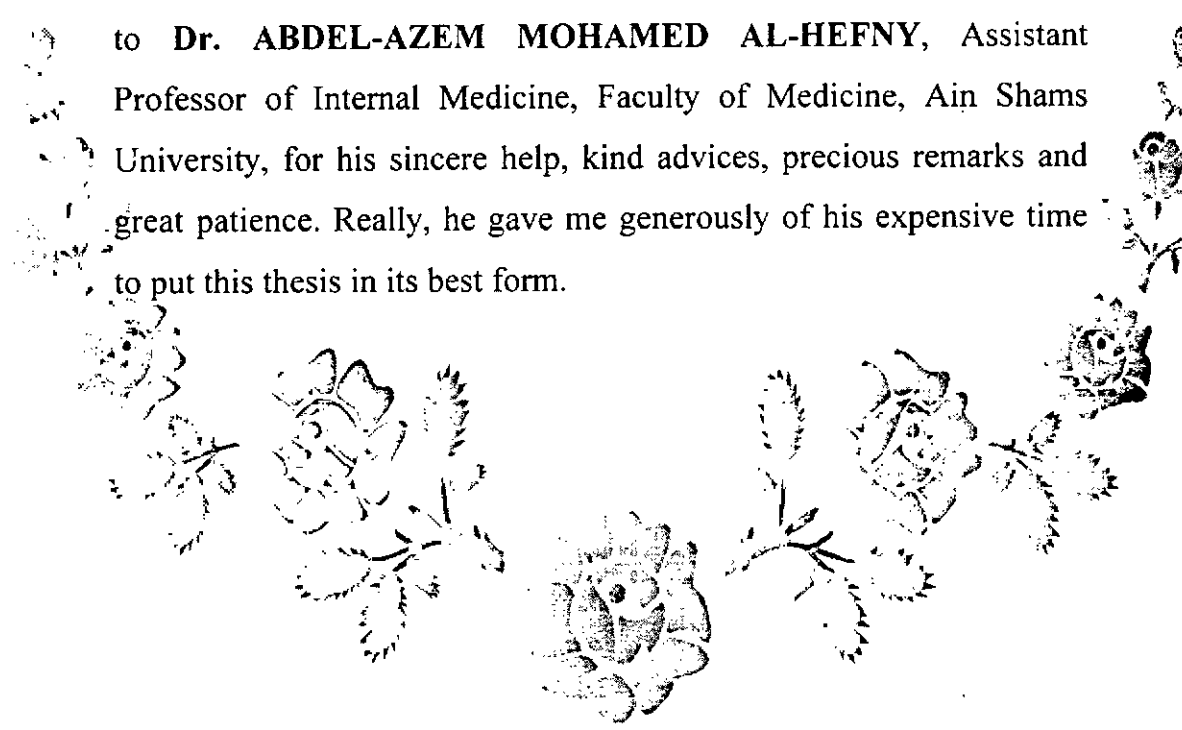


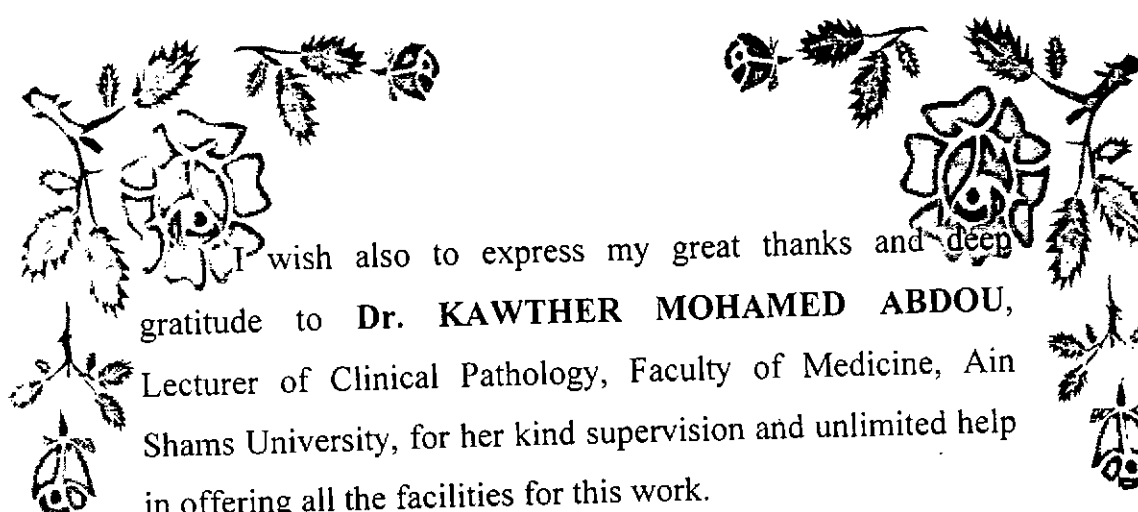
ACKNOWLEDGMENT

First of all, I wish to express my sincere thanks, great indebtedness and supreme gratitude to **GOD** ... without his wide mercifulness; I wouldn't be ... without his kind guidance; I wouldn't do ... without his generous gift; I wouldn't see or hear, know or learn.

I would like to express my cordial thanks and deep gratitude to **Professor Dr. MOHAMED SALAH EL-DIN ABDEL-BAKY**, Professor of Internal Medicine and Director of Rheumatology Unit, Faculty of Medicine, Ain Shams University, for his kind supervision, valuable advices, constant help and continuous encouragement all through my work.

I would like to express my profound thanks and great gratitude to **Dr. ABDEL-AZEM MOHAMED AL-HEFNY**, Assistant Professor of Internal Medicine, Faculty of Medicine, Ain Shams University, for his sincere help, kind advices, precious remarks and great patience. Really, he gave me generously of his expensive time to put this thesis in its best form.

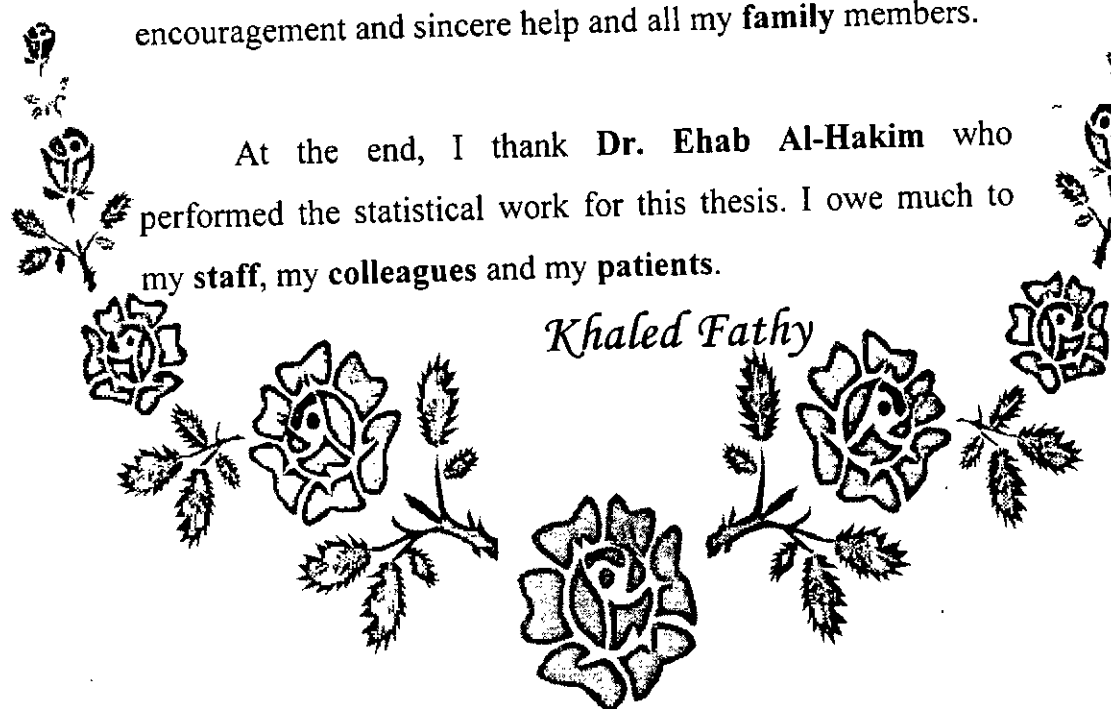




I wish also to express my great thanks and deep gratitude to **Dr. KAWTHER MOHAMED ABDOU**, Lecturer of Clinical Pathology, Faculty of Medicine, Ain Shams University, for her kind supervision and unlimited help in offering all the facilities for this work.

I would express my sincere gratitude and great indebtedness to those who gave me everything and not waiting for any reward ... to those who scarified themselves for my sack, to those who offered me all their time and effort happily, to my great parents; my great father **PROFESSOR DR. FATHY BADAWY** and my great mother **DR. MADIHA FADEL** ... to whom I owe more than words can express.

I would like to thank my lovely **wife** for her endless encouragement and sincere help and all my **family** members.

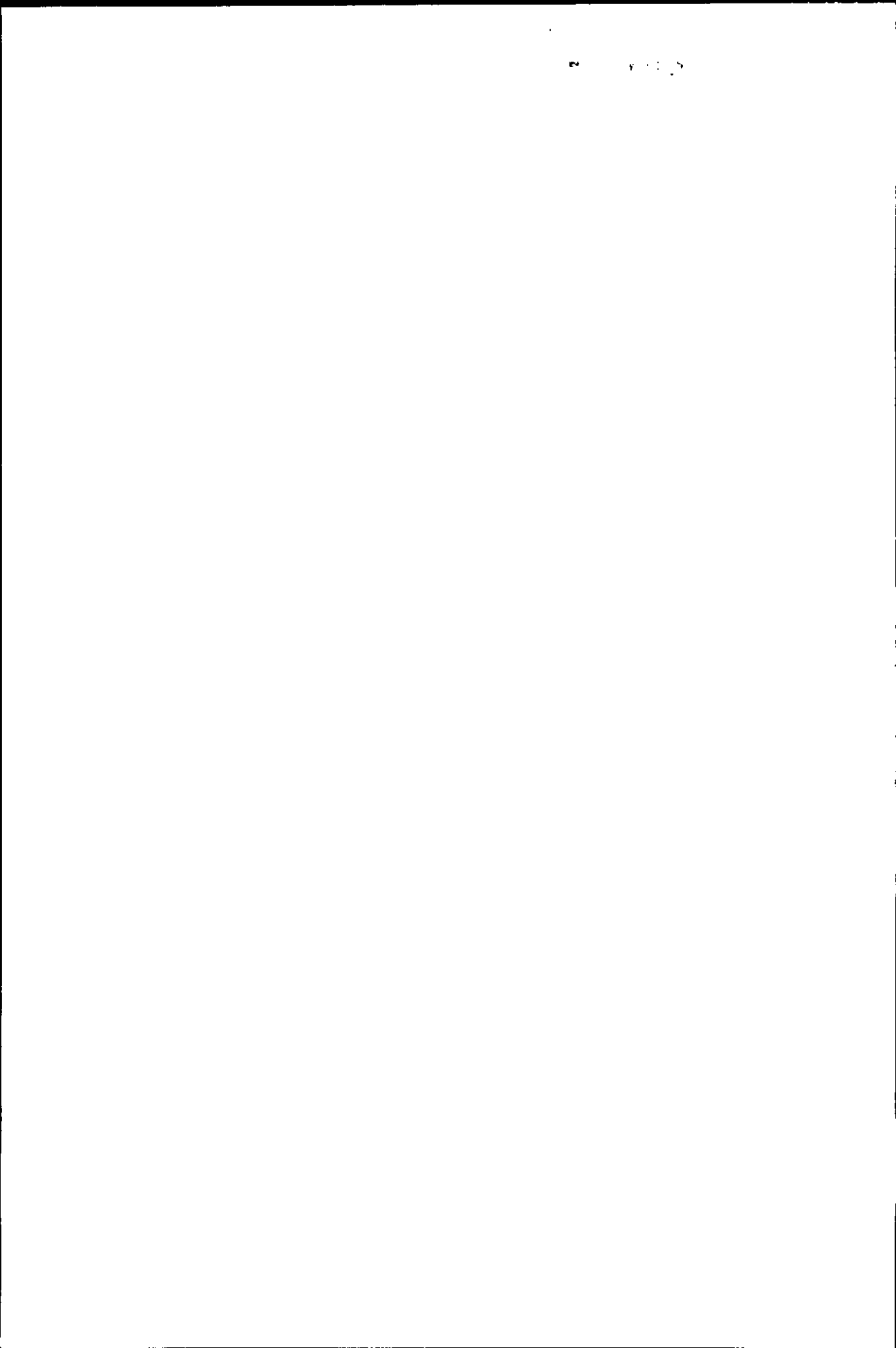


At the end, I thank **Dr. Ehab Al-Hakim** who performed the statistical work for this thesis. I owe much to my staff, my colleagues and my patients.

Khaled Fathy

CONTENTS

| TITLE | PAGE |
|----------------------------------------|-------------|
| • LIST OF ABBREVIATIONS | A |
| • LIST OF TABLES | C |
| • LIST OF FIGURES | E |
| • INTRODUCTION AND AIM OF WORK | F |
| • REVIEW OF LITERATURE | |
| <i>I- Systemic Lupus Erythematosus</i> | 1 |
| <i>II- Hepatitis C Virus</i> | 43 |
| <i>III- Autoimmunity and HCV</i> | 79 |
| • PATIENTS AND METHODS | 102 |
| • RESULTS | 111 |
| • DISCUSSION | 131 |
| • CONCLUSION | 142 |
| • RECOMMENDATIONS | 143 |
| • SUMMARY | 144 |
| • REFERENCES | 146 |
| ARABIC SUMMARY | |



LIST OF ABBREVIATIONS

| Abs. | Antibodies |
|---------------|----------------------------------|
| ACA | Anticardiolipin Antibodies |
| A CR | American College of Rheumatology |
| ANA | Anti-Nuclear Antibodies |
| Anti- ds DNA | Anti- double stranded DNA |
| APL | Antiphospholipid Syndrome |
| CIC | Circulating Immune-Complexes |
| CVS | Cerebrovascular Stroke |
| C3 & C4 | Complement 3 & 4 |
| DBP | Diastolic Blood Pressure |
| DNA | Deoxyribonucleic Acid |
| DLE | Discoid Lupus Erythematosus |
| ESR | Erythrocyte Sedimentation Rate |
| GFR | Glomerular Filtration Rate |
| GN | Glomerulonephritis |
| HCV | Hepatitis C virus |
| H.P.F. | High Power Field |
| HTN | Hypertension |
| IFN- α | Interferon-alpha |
| IgG & IgM | Immunoglobulin G & M |
| LAC | Lupus Anti-coagulant |

| | |
|--------|--------------------------------------|
| LKM | Liver/Kidney Microsomal antibodies |
| MC | Mixed Cryoglobulinemia |
| MIU | Million International Unit |
| NSAIDs | Nonsteroidal Anti-Inflammatory Drugs |
| PCR | Polymerase Chain Reaction |
| R.A. | Rheumatoid Arthritis |
| RBCs | Red Blood Cells |
| SLE | Systemic Lupus Erythematosus |
| SCLE | Subacute Cutaneous Lupus |
| TBA | Total Body Area |
| WBCs | White Blood Cells |