

بسم الله الرحمن الرحيم





شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



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



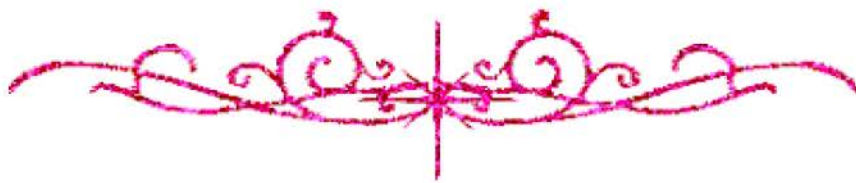


بالرسالة صفحات
لم ترد بالأصل





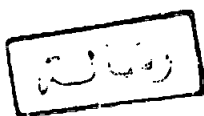
بعض الوثائق الأصلية تالفة



EFFECT OF OCCUPATIONAL CHRONIC LEAD EXPOSURE ON KIDNEY FUNCTION

Thesis

Submitted in partial fulfillment of
Master Degree in
Internal Medicine



By

Gihan Foaad Ahmed

M.B., B.Ch.

616.61
G. F.

Supervisors

Prof. Dr. Mohamed El-Tayeb Naser

Prof. of Internal Medicine & Nephrology
Faculty of Medicine, Ain Shams University

Dr. Maged Abdel Karim El-Setouhy

Assist. Prof. in Department of Community
Environmental and Occupational Medicine

Dr. Eman Anwer El-Azab

Lecturer of Internal Medicine & Nephrology
Faculty of Medicine, Ain Shams University



**Faculty of Medicine
Ain Shams University**

2002

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قَالُوا سُبْحَانَكَ لَا عِلْمَ لَنَا إِلَّا مَا عَلَّمْنَا
إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ

صدق الله العظيم

البقرة الآية ٣٢



ACKNOWLEDGMENT

First of all, I would like to express my utter gratitude to God almighty for everything he had given me, for his kindness and care, and for giving me strength to complete this work.

I wish to convey my profound gratefulness to Prof. Dr. Mohamed El-Tayeb Nasser, Prof. of Internal Medicine and Nephrology, Ain Shams University, for his cooperation and supervision of this work, and for being my idol, whose charisma was a great motive for me.

My greatest thanks are to Assist. Prof. Dr. Maged Abdel Karim El-Setouhy, Assist. Prof. in Department of Community, Environmental and occupational Medicine, Ain Shams University, whose efforts are deeply appreciated by me.

Dr. Eman Anwer El-Azab, lecturer of Internal medicine and Nephrology, Ain Shams University, for her efforts and valuable time she has spent in this work and for her valuable advices.

I would like to thank all the patients who had agreed to cooperate in this research, and every person who had aided by any means in delivering this work and rendering it a successful one.

Last but never least, I am most grateful to all members of my family for giving me great support.

CONTENTS

Page

Introduction and aim of the work.....	1
Review of Literature	3
- <i>Lead and environmental pollution.....</i>	3
Historical background	3
Sources of lead pollution in the environment	5
Metabolism of lead.....	14
Excretion of lead	16
- <i>Lead nephropathy.....</i>	18
Pathogenesis and mechanism of action of lead.....	18
- <i>Effect of lead on other body systems.....</i>	41
Haematologic toxicity	42
Neurologic toxicity.....	44
Gastro-intestinal toxicity	47
Cardiovascular toxicity	48
Reproductive toxicity	50
Other toxic effects	50
Subjects and Methods.....	51
Results	57
Discussion.....	63
Summary.....	72
Conclusion and Recommendations	75
References	77
Arabic Summary.....	--

