بسم الله الرحمن الرحيم





شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

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



يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار

في درجة حرارة من ١٥-٥٠ مئوية ورطوبة نسبية من ٢٠-٥٠ في درجة حرارة من ٢٥-٥٠ مئوية ورطوبة نسبية من ٢٠-٥٠ To be Kept away from Dust in Dry Cool place of 15-25- c and relative humidity 20-40%

بالرسالة صفحات لم ترد بالاصل

بعض الوثائـــق الأصليــة تالفـه

Epidemiology of Chronic Renal Failure: Hospital Based Study

Thesis

Submitted for Partial Fulfillment of the M.Sc. Degree of Internal Medicine

By
Mahmoud Nady Mahmoud Hussein
M.B., B.Ch.
Faculty of Medicine – Cairo University

Under supervision of:

-Dr. Tarek Hussein El-Shabony

Professor of Internal Medicine
Faculty of Medicine - Cairo University

Dr. Mohammed Hassan Husein

Professor of Public Health
Faculty of Medicine - Cairo University

 E^{η}

Dr. Mohammed Hamdy El-Akkad

Assistant Professor of Internal Medicine Faculty of Medicine - Cairo University

Faculty of Medicine
Cairo University
2003

٣- ٦

اجتماع لجنة الحكم على الرسالة المقدمة من
Composition of the little of t
الجماع لجله العلم على الراء محمو وحسين الطبيب / محمو و رادي محمو وحسين توطنة للحصول على درجة الماجستير / التكتوراه-
في اماع، الباطنة
=====
Epidemiology of Chronic: حت عنوان: باللغة الانجليزية:
حت عنوان : باللغة الإنجليزية المامان الم
Renal failure, Hospital Basic Study (instal of Millian Line) Constal of March Study (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line (Constal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line (Constal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line (Constal of Millian Line) Constal of Millian Line (Constal of Millian Line) (instal of Millian Line (Constal of Millian Line) Constal of
Coshle Millian Maller
باللغة العربية : إلى المعتداني المعت
٧ ت. تشكيل لجنة الفحص والمناقشة
بناء على موافقة البامعة بتاريخ ١٠٠ / ١٠٠ م تسين سب
بناء على موافقة الجامعة بتاريخ ١٠٠ / / / / ٢٠٠ تم تشكيل لجنة الفحص والمناقشة للرسالة المذكورة أعلاه على النحو التالى عن المشرفين
The second state of the se
1 9 cm love later with a comment
٣. إ و احدد عبد القادر اجمد
dia III crasi se e e e e e
بعد فحص الرسالة بواسطة كل عضو منفردا وكتابة تقارير منفردة لكل منهم انعقدت اللجنة
يناريخ / ۱۰۰ بعسم
مجتمعه في يوم المسالة والنائج المناقشة الطالب في جلسة علنية في موضوع الرسالة والنتائج بكلية الطب - جامعة القاهرة وذلك لمناقشة الطالب في جلسة علنية في موضوع الرسالة والنتائج
بكلية الطب - جامعة القاهرة ودنك المداهلة المعاجب على بالمداه
التي توصل اليها وكذلك الأسس العلمية التي قام عليها البحث و
4 - 11 1 5
توقيعات أعضاء اللجنة:- الممتحن الخارجي
المشرف الممتحن الممتحن الداخلي الممتحن الحارجي
white and the
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

بسم الله الرحن الرحيم الله الكِتَابُ لَارِيْبَ فِيهِ الْكَرِيْبَ فِيهِ

هُدًى لِلمُتَقِينَ

صدق الله العظيم

سورة البقرة الاية ١ – ٢

Abstract

Unknown etiology is the commonest etiology of CRF in urban group and this can be explained by: presence of risk factors.

Hypertension: is a common cause of CRF but is the first risk factor in most cases.

Schistosomal diseases: still constitutes a health burden in rural areas.

D.M. is a common cause of CRF especially in urban and semiurban groups.

Chronic pyelonephritis and obstructive uropathy, are more common in rural areas and may be due to a role for bilharziasis.

Kidney biopsy, may resolve some of the undiagnosed cases and should be done early before ESRD.

Anemia: is a common association in different groups.

Key word

Epidemiology of Chronic Renal Failure: Hospital Based Study

Acknowledgement

I would like to express my deepest gratitude and appreciation to my Prof. Dr. *Tarek Mahamoud Hussein*, Professor of Internal Medicine, Cairo University, for his continuous guidance, expert advice and valuable suggestions that greatly enriched this work and made it to be in this final.

I'm deeply grateful to the kindness of Prof. Dr. **Mohammed Hassan Hussein**, Professor of Public Health, Cairo University for his keen support, sincere help and valuable advices throughout this study.

Also, I would like to thank my Prof. Dr. **Mohammed Hamdy El-Akkad**, Assist. Prof. of Internal Medicine, Cairo

University, for his faithful support.

Last but not least, I would like to thank all the physicians as well as the nurses and the patients of El-Sahel Teaching Hospital, who agreed willingly to participate in this study.

Mahmoud Nady 2003

TO MY PARENTS TO MY WIFE TO KHADEGA & AHMED

CONTENTS

•	Page
• Introduction and Aim of Workl	
• Review of Literature	3
- Chronic renal failure3	}
- Etiological Factors of Chronic Renal Failure2	.2
- Epidemiology of chronic renal failure	55
Material and Methods	71
• Results	74
• Discussion	79
• Conclusion	93
• Recommendations	94
• Summary	95
• References	97
Arabic Summary	

INTRODUCTION

Chronic renal failure (CRF) is irreversible and progressive failure of glomerular and tubular functions leading to retention of waste products and disturbance of the body internal environment (Strutz and Muller, 1995).

About 1 of every 1,000 Americans receive treatment for end-stage renal disease, for a total of nearly 300,000 affected individual. The prevalence of treated end-stage renal disease is increasing at a rate of about 8% per year. It is unclear how many patients with end-stage renal disease are untreated (and die as a result) (U.S. Renal Data System, 1998).

Similarly the population requiring regular renal replacement therapy has been continuously growing in Egypt (Letarte, 1996).

In the last three decades, it has expanded from less than 10 per million of the general population in 1974 (Barsoum et al., 1974). To about 165 per million in 1995 (Barsoum, 1995), by the year 2000, the prevalence of

dialysis patients in Egypt became 31A per million (Egyptian Renal Registry, 5th Annual Report, 2000].

Many causes were incriminated in the etiology of CRF. It was found that most of renal diseases can eventually lead to significant reduction in function (Elnahas and Winears, 1996).

Many patients present very late in their illness with small, shrunken kidneys from which no informative renal tissue can be obtained by biopsy and so they are classified as being of unknown etiology (Elnahas et al., 1991).

AIM OF THE WORK:

The *aim* of the work is to get a profile of the possible risk and etiological factors that are associated with chronic renal failure with emphasis on rural / urban differential.

CHAPTER I CHRONIC RENAL FAILURE

DEFINITION:

Chronic renal failure (CRF) is defined as the irreversible, substantial, and usually long-standing loss of renal function causing ill-health, usually referred to as uremia. End-stage renal failure (ESRD) is the degree of chronic renal failure that without renal replacement treatment would result in death. Diminished renal reserve precedes chronic renal failure; plasma biochemistry is then normal and there are no clinical consequences of the reduction in the glomerular filtration rate below the normal range (El-Nahas and Winearls, 1999).

PATHOPHYSIOLOGY:

(A) Chronic Failure:

Approximately one million nephrons are present in each kidney, each contributing to the total glomerular filtration rate (GFR). Regardless of the etiology of renal injury, with progressive destruction of nephrons, the kidney has an innate ability to maintain GFR by hyperfiltration and compensatory hypertrophy of the remaining healthy nephrons. This nephron adaptability allows for continued normal clearance of plasma solutes such that substances such as urea and creatinine start to