

سامية محمد مصطفى



شبكة المعلومات الجامعية

# بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



سامية محمد مصطفى



شبكة المعلومات الجامعية



# شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



سامية محمد مصطفى



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



سامية محمد مصطفى



شبكة المعلومات الجامعية



# بعض الوثائق الأصلية تالفة



سامية محمد مصطفى



شبكة المعلومات الجامعية



بالرسالة صفحات

لم ترد بالأصل



**EVALUATION OF ULTRASOUND  
MEASUREMENT OF INFERIOR VENA CAVA  
DIAMETER IN ASSESSING DRY WEIGHT  
IN HEMODIALYSIS PATIENTS**

*Thesis*

Submitted for Partial Fulfillment of  
Master degree in  
**Internal Medicine**

*By*

**Haytham Ahmed Gaber**

M.B., B. Ch.

*Supervised By*

**Prof. Dr. Alaa El-Deen Ali Abdel-Rahman**

*Professor of Internal Medicine & Nephrology  
Ain Shams University*

**Dr. Ahmed Aziz Abd El-Nabi**

*Lecturer of Internal Medicine & Nephrology  
Ain Shams University*

**Dr. Sameh Mohamed Abd El-Wahab**

*Lecturer of Radiodiagnosis  
Ain Shams University*

*Faculty of Medicine*  
**AIN SHAMS UNIVERSITY**  
**2001**

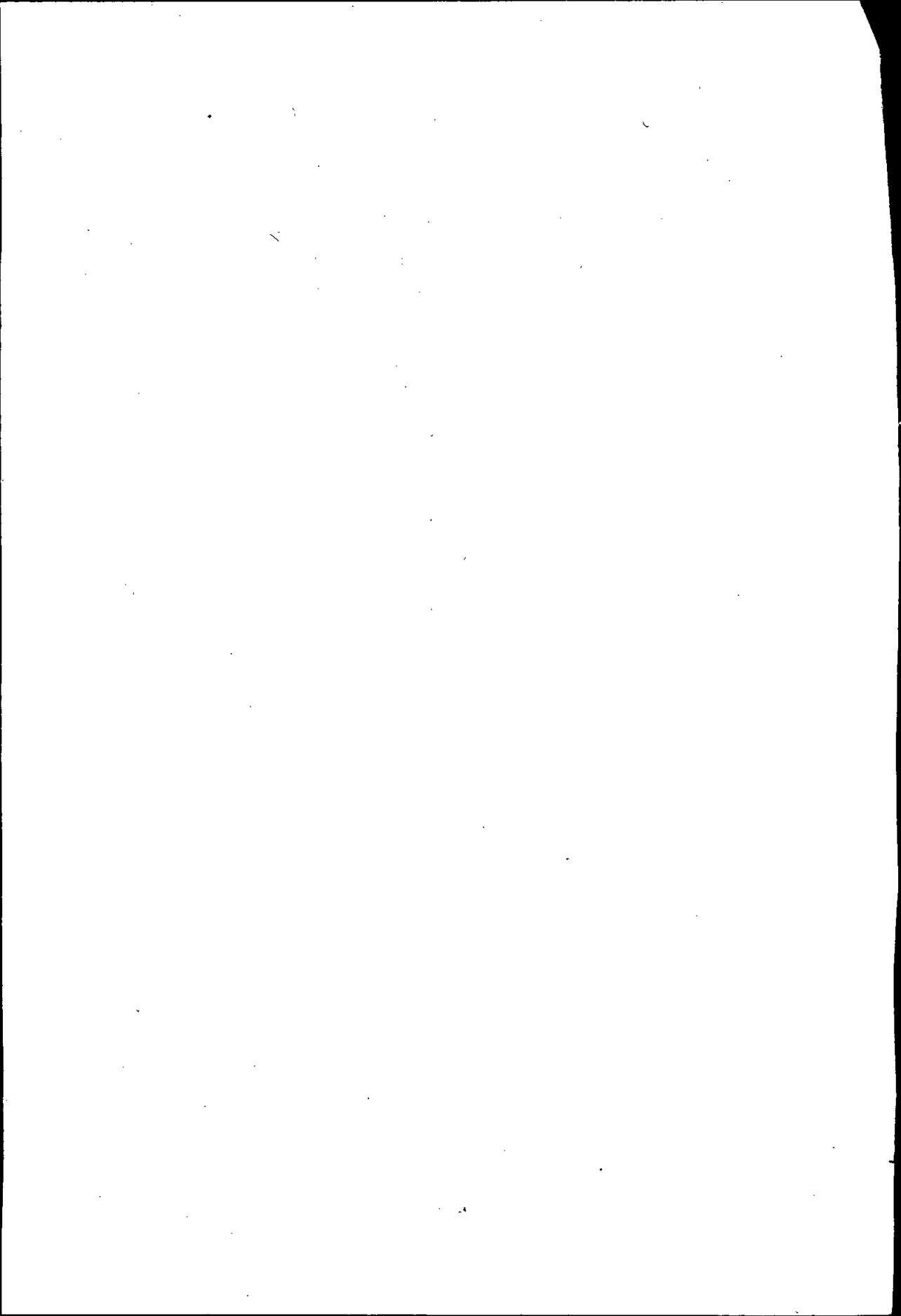
B

18119

*Submitted*

*18/5/11*

*18/5/11*



**EVALUATION OF ULTRASOUND  
MEASUREMENT OF INFERIOR VENA CAVA  
DIAMETER IN ASSESSING DRY WEIGHT  
IN HEMODIALYSIS PATIENTS**

*Thesis*

Submitted for Partial Fulfillment of  
Master degree in  
**Internal Medicine**

*By*

**Haytham Ahmed Gaber**  
*M.B., B. Ch.*

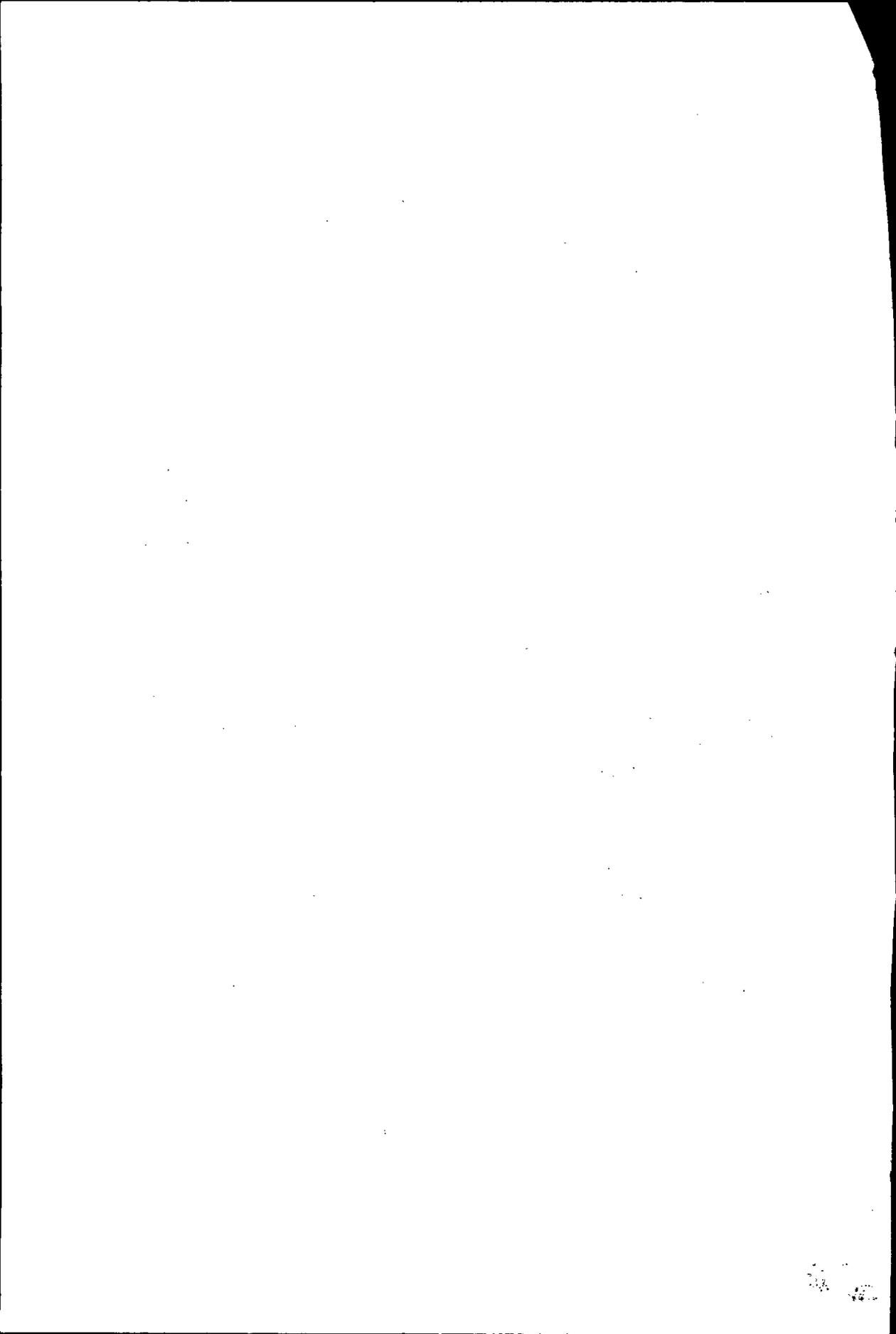
*Supervised By*

**Prof. Dr. Alaa El-Deen Ali Abdel-Rahman**  
*Professor of Internal Medicine & Nephrology  
Ain Shams University*

**Dr. Ahmed Aziz Abd El-Nabi**  
*Lecturer of Internal Medicine & Nephrology  
Ain Shams University*

**Dr. Sameh Mohamed Abd El-Wahab**  
*Lecturer of Radiodiagnosis  
Ain Shams University*

*Faculty of Medicine*  
**AIN SHAMS UNIVERSITY**  
**2001**



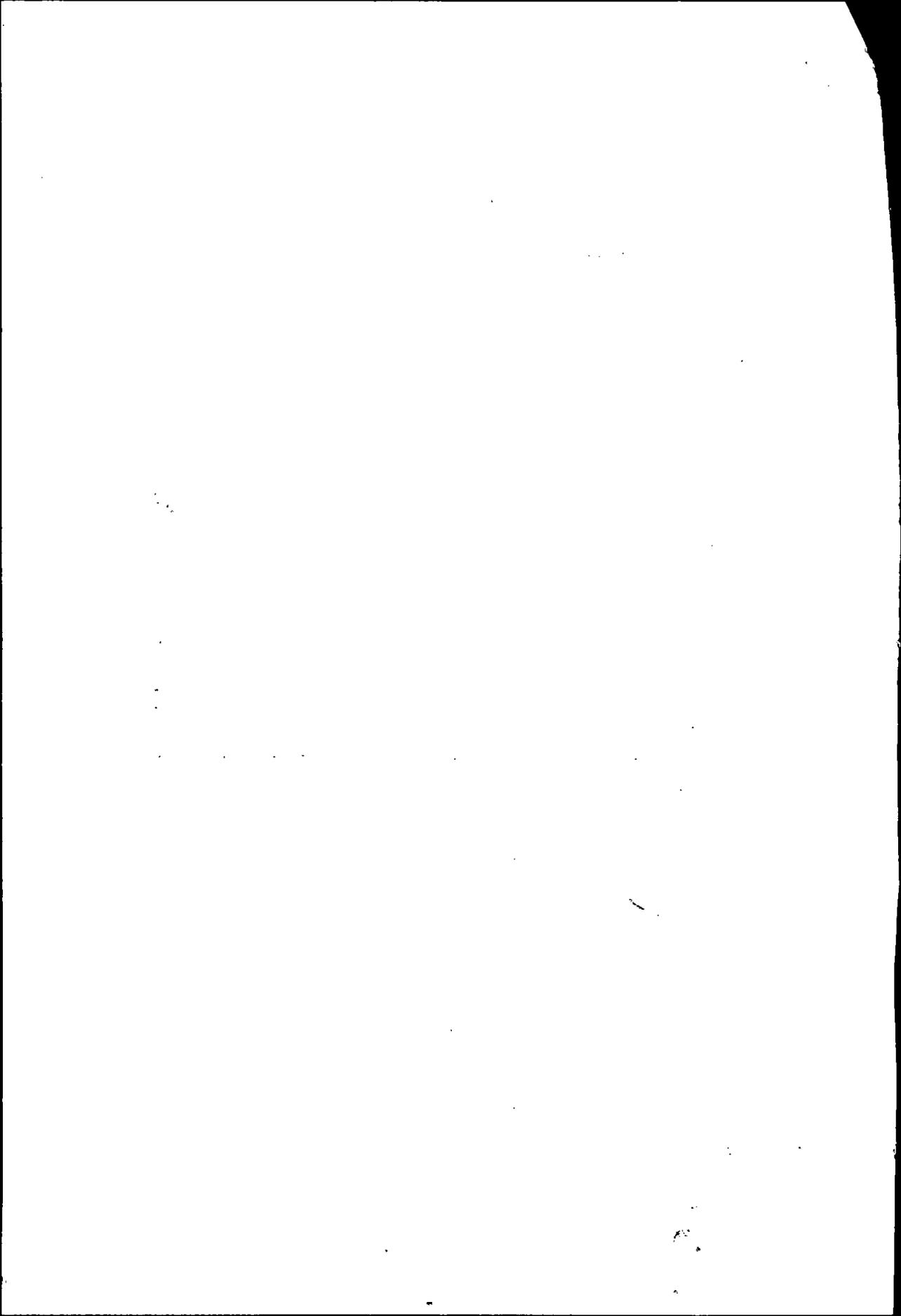
## *Acknowledgement*

*First and before all I would like to express my deepest thanks to God who helped me to pass safely through all the problems I thought impossible to overcome.*

*I would like to express my gratitude and sincere thanks to Prof. Dr. Alaa El-Deen Ali Abdel-Rahman, Professor of Internal Medicine and Nephrology, Faculty of Medicine, Ain Shams University, for suggesting the subject and for his valuable and generous advice. Nothing of this topic could have been done without his willing cooperation and great patience throughout the course of study.*

*I owe a lot of thanks to Dr. Ahmed Aziz Abd El-Nabi, Lecturer of Internal Medicine & Nephrology, Faculty of Medicine, Ain Shams University, who kindly supervised and motivated the performance of this study with indispensable advice.*

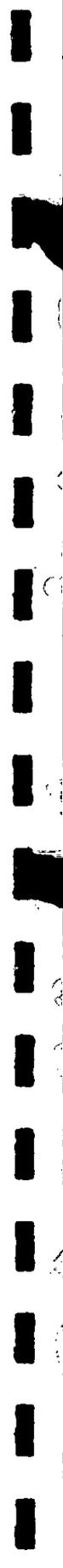
*Specially thank must go to Dr. Sameh Moahmed Abd El-Wahab, Lecturer of Radiodiagnosis, Faculty of Medicine, Ain Shams University. I am greatly to he for and suggesting the subject his valuable advise and continuous encouragement.*



# CONTENTS

	Page
<b>Introduction and Aim of the Work</b> .....	1
<b>Review of Literature</b>	
Control of extracellular Fluid Volume.....	5
Hemodynamic instability in chronic renal failure patients on hemodialysis .....	33
Methods of estimation of "dry weight" in Hemodialysis patients .....	46
<b>Subjects and Methods</b> .....	58
<b>Results</b> .....	62
<b>Discussion</b> .....	95
<b>Summary</b> .....	102
<b>Conclusion and Recommendations</b> .....	105
<b>References</b> .....	106
<b>Arabic Summary</b> .....	--.

Handwritten text, possibly bleed-through from the reverse side of the page. The text is extremely faint and illegible.



## LIST OF TABLES

No.	Title	Page
1	Comparison of age between patients and control group	68
2	Comparison of systolic blood pressure between patients before dialysis and control group	69
3	Comparison of diastolic blood pressure between patients before dialysis and control group	70
4	Comparison of serum sodium between patients before dialysis and control group	71
5	Comparison of albumin between patients before dialysis and control group	72
6	Comparison of packed cell volume between patients before dialysis and control group	73
7	Comparison of inferior ven caval diameter between patients before dialysis and control group	74
8	Comparison between weight before and after dialysis	75
9	Comparison between systolic blood pressure before and after dialysis	76
10	Comparison between diastolic blood pressure before and after dialysis	77
11	Comparison between serum sodium before and after dialysis	78

12	Comparison between albumin before and after dialysis	79
13	Comparison between packed cell volume before and after dialysis	80
14	Comparison between inferior vena caval diameter before and after dialysis	81
15	Correlation between inferior vena caval diameter and systolic blood pressure before dialysis	82
16	Correlation between inferior vena caval diameter and systolic blood pressure after dialysis	83
17	Correlation between inferior vena caval diameter and diastolic blood pressure before dialysis	84
18	Correlation between inferior vena caval diameter and diastolic blood pressure after dialysis	85
19	Correlation between inferior vena caval diameter and serum albumin before dialysis	86
20	Correlation between inferior vena caval diameter and serum albumin after dialysis	87
21	Correlation between inferior vena caval diameter and serum sodium before dialysis	88
22	Correlation between inferior vena caval diameter and serum sodium after dialysis	89
23	Correlation between inferior vena caval diameter and packed cell volume before dialysis	90