قال تعالي :

(وأنزل الله عليك الكتاب والحكمة وعلمك مالم تكن تعلم

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سورة النساء الايه (113)

Dedication

To doses of the cup blank to give me a drop of love

To those of the fingers to give us a moment of happiness

To reap the thorns out of my way for me to pave the way science

To the heart as pure whiteness my mother

To heart the great my father

TO whom breastfed of love and healing balm

To all my family, to my Mon greenta and to my friends

Acknowledgements

First and foremost, I would like to express my deepest gratitude to Dr. Elsafi Ahmed Abdullah, for his help and guidance. I also would like to thanks Dr. Mohammed Elfadel. Without his help this work could not have been accomplished.

Abstract

In fact diabetic is the most common cause for renal failure. The purpose of the study is to characterize diabetic patient kidneys using ultrasound.

The study were done for 50 diabetic patient (30 male and 20 female) all of them have diabetic mellitus type2, their age between 45-55 year were included, and the patient with renal congenital anomalies, renal tract obstruction , malignant tumor and renal failure were excluded.

In this study ultrasound was performed for all patients by measuring the size of the kidney and evaluated the Echogensity of the right kidney compared with liver Echogensity, while the Echogensity of left kidney is compared with Echogensity of the spleen and corticomedullary ratio is also measured. The ultrasound scan is done by using TA curve linear transducer 3.5 MHZ.

The value of the study characterize that there is decrease in kidney length , decrease in C/M ratio and no deference in Echogensity.

ملخص الدراسة

يعتبر داء السكري من الأسباب الشائعه للفشل الكلوي والهدف من هذه الدراسة توصيف الكلى لدى مرض السكري بواسطه الموجات فوق الصوتيه .

اجريت هذه الدراسة في 50 مريض بالسكري 30 ذكور و 20 اناث كلهم مصابون بالسكري النوع الثاني .تتراوح اعمارهم م بين 45-55 عام وقد تم استبعاد مرض السكري المصابون بعيوب خلقيه في الكلى او إنسداد في المجرى البولي او اورام في الكلى.

اعتمدت الدراسة علي قياس حجم الكلى وقياس النسبه بين قشة ونخاع الكلى بالاضافه لمعدل الصدى الراجع مقارنةً بالصدى الراجع من الكبد بالنسبة للكلى اليمين والصدى الراجع من الطحال بالنسبه للكلى اليسار.كذلك قياس النسبه بين طبقه القشة والنخاع في الكلى. ولقد اجري الفحص بإستخدام المسبار البطني بواسطه جهازموجات فوق صوتيه بتردد 3.5 هيرتز.

اوضحت النتائج وجود نقص في حجم الكلى ونقص ايضا في النسبه بين طبقه القشة والنخاع في الكلي بينما لا يوجد تغي في معدل الصدى الراجع .

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List of abbreviation

DM.	**Diabetes mellitus**
IDDM.	**Insulin dependent diabetes mellitus**
NIDDM	**Non -insulin dependent diabetes mellitus**
CKD	**Chronic kidney disease**
DN	**Diabetic nephropathy**
C/M ratio	**Cortico-medullary ratio**
CMT	**Cortico-medullary thickness**
TA.	**Transabdominal**
K-DOQI	**Kidney Disease outcomes quality**
BUN	**Blood urea nitrogen**
ACE inhibitor	**Angiotensin converting enzyme inhibitor**