

الآية

قال الله تعالى:

﴿قَالُوا سُبْحَانَكَ لَا عِلْمَ لَنَا إِلَّا
مَا عَلَّمْتَنَا إِنَّكَ أَنْتَ الْعَلِيمُ
الْحَكِيمُ﴾

صدق الله العظيم
البقرة الآية (32)

Dedication

To my mothers spirit.....

To my father.....

To my brothers.....

To my sisters.....

To my friends.....

To my colleagues...

**I dedicate this work with my best wishes to
all**

Acknowledgements

All my thanks are in the name of Allah, the most Gracious and the most Merciful.

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Abbreviations

ADA	: American Diabetes Association.
CG	: Cockcroft-Gault.
DM	: Diabetes mellitus.
ECF	: extra cellular fluid
HDL	: High density lipoprotein.
NSAIDs	: Non steroidal anti-inflammatory drugs.
OGTT	: Oral glucose tolerance test.
AST	: Aspartate amino transferase
ALP	: Alkaline phosphatase
ALT	: Alanine amino transferase
ULN	; upper limit normal range
GH	: growth hormone

Abstract

The objective of this study was to determine the level of liver enzymes among Sudanese diabetic patients and compare it with a healthy control group.

Cross –sectional descriptive study was conducted in Dongola town during the year 2013. The study included 130 subjects, 80 of them were diagnosed as diabetics and 50 of them were apparently healthy individuals as control group. 55% of case group were males and 45% of them were females.

Venous blood sample were obtained from all participants and serum enzymes activity were measured by spectrophotometric method.

The study Showed that there was significance difference of ALT and ALP , ALT and ALP were increased in Diabetic patients rather than control group , but the level still in the normal range , and insignificance difference of AST between case and control group.

According to our finding liver enzymes in diabetic patiet do not influnced by type,duration and sex expet ALT level between male and female.

النتائج

تهدف هذه الدراسة إلي قياس مستوى انزيمات الكبد عند مرضي السكري ومقارنتها بمجموعة من الأصحاء كعينة ضابطة. وقد أجريت هذه الدراسة المقطعية بمدينة دنقلا خلال العام 2013م. وشملت الدراسة 130 شخص, عبارة عن مرضي السكري كمجموعة اختبار (80 شخص) وأصحاء (50 شخص) كمجموعة ضابطة, بلغت نسبة الذكور 55%. والاناث 45% و قد تم اخذ عينات دم وريدية من كل المتساهمين لقياس انزيمات الكبد باستخدام جهاز الاسبكتروفوتوميتر. أوضحت الدراسة أن هناك فرق ذو دلالة احصائية في مستوى انزيمي ALT ALP بين مرضي السكري و المجموعة الضابطة حيث ان متوسط مستوى الانزيمين اكثر عند مرضي السكري الا انه مازال في المدى الطبيعي , بينما اوضحت الدراسة انه لا يوجد فرق ذو دلالة احصائية في مستوى انزيم AST . تبعا لنتائجنا لا يوجد اي تاثير لنوع المرض, الجنس ومدة المرض علي مستوى انزيمات الكبد لمرضي السكري فيما عدا مستوى ALT بين النساء والرجال .

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