بسم الله الرحمن الرحيم

قال تعالى :

وَعَلَّمَكَ مَا لَمْ{تَكُنْ تَعْلَمُ وَكَانَ فَضْلُ اللهِ عَلَيْكَ عَظِيمًا }

صدق الله العظيم

النساء 113

Dedication

Dedicated to:

The soul of my father

To my beloved mother

To my husband and children

To my brother

To my family members

Acknowledgment

First I would like to thank Almighty Allah for giving me strength to complete this work.

I would like to present my thanks and appreciations to my supervisor Dr. AbdelsalamDafallafor his valuable information and insightful guidance that he offered me during the achievement of this study.

My ex-supervisor, the late Dr. Mohamed Abdelraheem did present me a lot of help and guidance at the beginning of this study, the research keeps for him a healthful appreciation. Moreover I would like to thank Dr. Lyla Altayeb for her continuous encouragement towards me to achieve this work.

I would like to thank the workers at the Sudan University Library.

Abstract

The level of trace elements, magnesium and zinc were monitored in 100 diabetic patients and in 50 apparently non diabetic.In order to study the impact of diabetes mellitus diseases on the status of these elements.

Control healthy persons presented with normal levels of blood glucose of a mean of (133mg/dl) while diabetic patient (241 mg/dl).

The result of magnesium level is being (17.92 mg/dl) and (22.47mg/dl) in control and diabetic patients respectively with a reduction 20.25% zinc level in being (0.67mg/dl) and (0.5lmg/dl) incontrol and diabetic patients respectively with a reduction 23.88%.

The findings of this study also showed that diabetic males nearly maintained the same levels of magnesium and zinc as in females, no significant differences.

The findings of this study also showed that no significant effect for age and duration of disease.

ملخص الأطروحة

تم رصد مستوى العناصر الصغرى المغنيسيوم والزنك في عدد 100 من مرضى السكري وعدد50 عينة من الأشخاص غير مصابين بمرض السكري (المجموعة الضابطة) من أجل دراسة تأثير مرض السكري على حالة هذه العناصر ومناقشة تأثيرها على مرضى السكري.

تم قياس متوسط مستوى الجلوكوز في الدم للمجموعة الضابطة وكانت النتيجة هي (133 ملغ/ديسيلتر)، في حين كانت نتيجة مرضى السكري (241 ملغ/ ديسيلتر) .

وأشارت النتائج إلى أن مستوى المغنيسيوم هي (17.92ملغم/ديسيلتر) و(22.47مج/ ديسيلتر) في المجموعة الضابطة ومرضى السكري على التوالي بانخفاض قدره (20.25٪). ومستوى الزنك كان (0.67ملغ/ديسيلتر) و(0.51ملغ/ديسيلتر) في المجموعة الضابطة ومرضى السكري على التوالي بانخفاض قدره (23.88٪).

أظهرت نتائج هذه الدراسة أنه لا يوجد فرق في مستويات المغنيسيوم والزنك بين مرضى السكري الذكور والاناث .

أظهرت نتائج الدراسة أيضا أنه لا يوجد تأثير للعمر ومدة المرض أثناء فترة الدراسة.

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