

الآية

بسم الله الرحمن الرحيم

يَا أَيُّهَا الَّذِينَ آمَنُوا إِنَّمَا الْخَمْرُ وَالْمَيْسِرُ وَالْأَنْصَابُ وَالْأَزْلامُ رِجْسٌ مِّنْ عَمَلِ الشَّيْطَانِ فَاجْتَنِبُوهُ لَعَلَّكُمْ تُفْلِحُونَ ۝

صدق الله العظيم

سورة المائدة الآية (90)

DEDICATION

- To our Parents who gave us hope and wished us to success.
- To our teacher who supported and supported and Supervisor our project.
- To our College who stood based us to the end.
- To everyone who provided us with information ideas and support.

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Abbreviation

Term	Abbreviation
PCV%	Packet cell volume
MCH	Mean cell hemoglobin
MCHC	Mean cell hemoglobin concentration
MCV	Mean cell volume
PLTs count	Platelets count
RBCs count	Red blood cell counts
WBCs count	White blood cell count
TWBCs	Total white blood cells
PKA	Protein kinas' A
RBC	Red blood cell
RFC	Reduced folate carrier
SAH	adenosylhomocysteine-s-
SAM	Adenosylmethionine-s-
SLC19	Solute carrier 19
TMD	Trans membrane domain
5-10-CH ₂ -THF	5,10-methyltetrahydrofolate
BBM	Brush border membrane
BBMV	Brush border membrane vesicle
BHMT	Betaine –homocysteinemethyltransferase
BLM	Basolateral membrane
BLMV	Basolateral membrane vesicle
FBP	Folate binding protein
FR	Folate receptor
GCP _{ii}	Glutamate carboxypeptidase _{ii}
MTHFR	Methylenetetrahydrofolatereductase
MTX	Methotrexate
OAT	Organic anaion transporter
PCFT	Proton –coupled folate transporter

Abstract

This descriptive cross sectional study to investigate the effect of alcohol consumption on CBC and folate level in alcoholic consumer in Khartoum state from 1-3-2015 to-1-8-2015.

The participant were 70 adult male 50 ,of them are alcohol concumerand 20 ,are non- alcohol aquestiner was starting after informative consent was obtain from each participant theeducational level of subject was12.5%primary, and54% had higher education and the marital status was 35.6% married and64.4% single. The participants not under treatment month before taken the sample ,the age is between 20-65 years old , 5 ml of venous blood from each participants were tacken.2.5ml put in EDTA container to measure CBC by sysmex KX 21N and 2.5ml put in plain container to measurefolate level use tosoh. Result s were analyzed by statistical software packages were averaged \pm SD and p.value are obtained .

Results show no significant effect in(HB,PCV, MCV, MCH,MCHC, TWBCs and folate level) with p.value (≥ 0.05).

Also there is inversebetween folate level and MCV among the study group.

Macrocyte, target cells and crenated cells were found in the peripheral blood of somealcoholic subject.

المستخلص

هذه دراسة وصفية تحليلية أجريت في ولاية الخرطوم لتناول اثر الكحول على صورة الدم ومستوى الفوليت في الدم. أجريت هذه الدراسة في الفترة ما بين مارس إلى أغسطس على عدد 70 من المشاركين 50 منهم يتعاطى كحول و 20 بينهما من الاصحاء الذكور وقد اخذت المعلومات بعد الموافقة عليها من قبل المشاركين والذين تتراوح اعمارهم ما بين 20 - 65 كمجموعة ضبط . وتم اخذ 5 مللتر من الدم الوريدي وقسما لحاويتان احدهما تحتوي على مانعاً للتجلط وضعفها 2.5 مللتر من الدم لقياس صورة الدم عن طريق جهاز sysmex kX21N واخرى لا تحتوي على مانع تجلط وضعفها 2.5 مللتر من الدم لقياس مستوى الفوليت في الدم عن طريق جهاز التوسو وكان المستوى التعليمي لعينة البحث هو 12.5% تعليم اساسي و 54% تعليم عالي وكانت نسبة المتزوجين 35.6 و غير المتزوجين 64.4% ، وتم تحليل البيانات بواسطة برنامج الحزم الإحصائية للعلوم الإجتماعية 11.5 والناتج التي تم الحصول عليها من مستخدمي الكحول ، تم مقارنتها مع المجموعة الضابطة وقد أظهرت النتائج عدم وجود إختاف ملحوظ فيما يتعلق بكريات الدم البيضاء وكريات الدم الحمراء ، والهيموكلوبين ، وحيدات الأحماض والقاعدة TWBCs ، مؤشرات الخلايا الحمراء والصفائح الدموية ، وقد أظهرت الخلايا الليمفاوية بعض الزيادة بالمقارنة مع الخلايا الضابطة ، كما أظهرت الخلايا الدفاعية بعض الإنخفاض ولم يوجد إختلاف في مستوى الفوليت في الدم ، وأظهرت صورة الدم الطرفية لدى بعض المدمنين إختلافات بالمقارنة مع الخلايا الضبطة حيث وجدت بعض الكريات الكبيرة وخلايا قليلة مجزأة لدى بعضهم.

وايضاً هناك علاقة عكسية ضعيفة بين مستوى الفوليت في الدم و MCV لمدمني الكحول.