

# الآية

بسم الله الرحمن الرحيم

قال تعالى:

( وَلَقَدْ خَلَقْنَا الْإِنْسَانَ مِنْ سُلَالَةٍ مِّنْ طِينٍ \* ثُمَّ جَعَلْنَاهُ  
نُطْفَةً فِي قَرَارٍ مَّكِينٍ \* ثُمَّ خَلَقْنَا النُّطْفَةَ عَلَقَةً فَخَلَقْنَا  
الْعَلَقَةَ مُضْغَةً فَخَلَقْنَا الْمُضْغَةَ عِظَامًا فَكَسَوْنَا الْعِظَامَ لَحْمًا  
ثُمَّ أَنشَأْنَاهُ خَلْقًا آخَرَ فَتَبَارَكَ اللَّهُ أَحْسَنُ الْخَالِقِينَ )

صدق الله العظيم

سورة المؤمنون الآيات (12-14)

## **Dedication**

To My:

Parents

Family and my friends

## **Acknowledgment**

First and foremost, I would like to thank God Allah for giving The health and strength which without I would not have been able to complete this research.

Iam grateful to my supervisor prof: Babiker Ahmed Mohamed for her guidance and constructive advice and help.

I would like to express my deep grateful and thank to all staff and my friend at Regulatory lab of Quality control (NPHL).

My thanks are also extend to the patients who provide samples and information's.

## **Abstract**

This is cross sectional study carried out at Khartoum State ,during the period from March 2015 to July 2015 .

The aim of study is to determine the frequency of antiphospholipid antibodies (APL) among women with recurrent miscarriage.

Forty women each with more than three consecutive recurrent miscarriage were participated in this study ,women with known cause of miscarriage were excluded from this study

Data was collected through written questionnaire , then specimen of 2ml of venous blood was drawn from each participant and placed in plain container , and tested for antiphospholipid (APL) (IgM/IgG) antibodies and anticardiolipin antibodies (ACL ) (IgM/IgG) was done using ELISA assay, Results were analyzed by SPSS (Statistical Package of Social Science).

Results showed the frequency of APL 28%, and the frequency of ACL 20%.

Insignificance association between presence of APL, ACL and female age, family history of miscarriage and number of miscarriages ( $p\text{-value} > 0.05$ ) was observed.

The study concluded that the presence of APL and ACL is associated with recurrent miscarriage.

No significance association between presence of APL, and ACL according female age, family history of miscarriage and number of miscarriages.

к **АГ 97**

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$\Delta \text{Y}_{\text{AB}} = 6\%$      $\Delta \text{Y}_{\text{BC}} = 8\%$      $\Delta \text{Y}_{\text{AC}} = 14\%$      $\Delta \text{Y}_{\text{AB}} = 5\%$      $\Delta \text{Y}_{\text{BC}} = 7\%$      $\Delta \text{Y}_{\text{AC}} = 12\%$

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## **List of Abbreviation**

ACL:	anticardiolipin
APA:	antiphospholipid antibodies
APL:	antiphospholipid
APS:	antiphospholipid syndrome
APTT:	activated partial thromboplastin time
B <sub>2</sub> -GPL:	Beta-2 glycoprotein
DVT:	deep vein thrombosis
ELISA:	enzyme linked immune sorbent assay
HLA:	human leukocyte antigen
HRP:	horse reddish peroxidase
KCT:	kaolin clotting time
L A:	lupus anticoagulant
LMP:	last menstrual period
MRI:	magnetic resonance imaging
NK:	natural killer
PNP:	platelets neutralization test
RPL:	recurrent pregnancy loss
RVVT:	Russell viper venom time
SLE:	systemic lupus erythematosus
TMB :	tetra methyl benzidine
TPA:	tissue plasminogen activator
WHO:	world health organization