

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قال تعالى :

اقْرَأْ بِاسْمِ رَبِّكَ الَّذِي خَلَقَ ﴿١﴾ خَلَقَ الْإِنْسَانَ مِنْ عَلَقٍ ﴿٢﴾ اقْرَأْ وَرَبُّكَ
الْأَكْرَمُ ﴿٣﴾ الَّذِي عَلَّمَ بِالْقَلَمِ ﴿٤﴾ عَلَّمَ الْإِنْسَانَ مَا لَمْ يَعْلَمْ ﴿٥﴾

صدق الله العظيم

سورة الفلق الآيات 1-5

Dedication

To my beloved and blessed parents who did everything for me

*To my dears all members of my families who spend more time
encourage me*

*To my kindful and wonderful supervisor Dr.Alla A.kareem
who was supports me in each step of my research*

*To my teachers, very special friends and colleagues who
where an integral part of our support group*

I dedicate this work...

Acknowledgment

First and foremost, I would like to thank God for giving the health

And strength which without, I would not have been able to

Complete this research

Firstly most grateful and deep great thanks to my perfect

Supervisor Dr/Abdulla Abdel Kareem his great effort...

I would like to express my deep gratitude and thank to my husband

Dr.Nour Alhuda Mohammedin

My best regards and thanks

To staff in Dr/Elsir Fertility center I would like to express my deep

Appreciation and gratitude to every one of them special thank to

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Abstract

This study was descriptive and analytical study, conducted in Khartoum state during the period from May 2013 to March 2014 in Dr. Elsir Fertility Center, Khartoum state, Sudan. The aim, was to determine the prevalence of Antiphospholipid Syndrome, lupus anticoagulant, prothrombin (PT) and activated partial thromboplastin (APTT) in Sudanese women with recurrent Miscarriages. A total of hundred women with two or more recurrent miscarriages blood Samples in addition to 50 healthy non pregnant women were involved in this study. The age was ranging between 20-40 years, with mean age of 30 years. Patient with history with known cause for miscarriages were excluded from this study. Patient and control were tested for Antiphospholipid antibodies IgG by ELISA, lupus anticoagulant by screening test of activated partial thromboplastin time and correction of it, Prothrombin time and activated partial thromboplastin time by using coagulometer Biobas 10. The results were analyzed by using program SPSS version 20. Results showed that the means of APA for patients was 4.36 ± 6.53 and 2.12 ± 1.44 for control (P-value 0.003). Mean of APTT for patients was 34.0 ± 8.16 and 29.1 ± 3.27 for control, (P-value 0.000) and Mean of PT test 12.7 ± 2.47 for patients and 11.9 ± 0.95 for control and (P-value 0.017) and its clinical significant. The study found 12% of prolonged APTT have inhibitor mainly like LA. The study found that women with RM who treated with heparin and aspirin have increased rate of live birth.

The study concluded that the presence of aniphopholipid antibody and LA were significantly associated with recurrent miscarriage and the activated partial thromboplastin time is more sensitive than prothrombin time in the presence of lupus anticoagulant.

The results of the previous study were compatible with these study in similar worlds conducted on countries other than Sudan.

ملخص البحث

هذه الدراسة دراسة وصفية تحليلية أجريت في ولاية الخرطوم في الفترة من مايو 2013 وحتى مارس 2014 في مركز د. السر أبو الحسن للخصوبة الخرطوم، السودان، بعد أخذ الموافقة من النساء اللاتي تم سحب الدم منهن .

هدفت هذه الدراسة لتحديد علاقة الأجسام المضادة للفوسفات الدهنية، زمن الثرموبلاستين الموضعي المنشط، زمن البروثومبين وتختثر الذئبة مع الإجهاض المتكرر

جمعت مائه عينة دم من نساء من ذوات الإجهاض المتكرر ثم جمعت خمسون عينة دم من نساء لم يعانين من الإجهاض، ترواحت اعمارهن من 20 إلى 40 سنة وكان متوسط الأعمار 30 سنواً. استبعدت هذه الدراسة النساء اللاتي لديهن أسباب معروفة للإجهاض. المجموعتين المرضي والمجموعة الضابطة أجريت لهن إختبارات دم تخص الأجسام المضادة للفوسفات الدهنية باستخدام الالايزا وتختثر الذئبة، زمن البروثومبين وزمن الثرموبلاستين الجزئي المنشط باستخدام جهاز ال كواكيلومتر بيوباس 10. وكانت النتائج كالاتي متوسط الأجسام المضادة تراوح بين $4.36_+6.53$ للمرضى و $2.12_+1.44$ للكنترول وكانت قيمة ال ومتوسط زمن الثرموبلاستين الموضعي المنشط $12.7_+2.47$ للمرضى و $12.7_+2.47$ للكنترول و $11.9_+0.95$ للكنترول بالنسبة لزمن البروثومبين وكان 12% بالنسبة لتختثر الذئبة المضاد وجدت هذه الدراسة أن النساء اللاتي يعانين من الإجهاض المتكرر وتعالجن بالهبرين والاسبرين تزداد لديهن نسبة إنجاب أطفال عند مقارنتهن مع النساء اللاتي لم يتعالجن. خلصت هذه الدراسة الى أن وجود الأجسام المضادة للفوسفات الدهنية وتختثر الذئبة المضاد له علاقة بالإجهاض المتكرر وأن زمن الثرموبلاستين الموضعي المنشط مرتبط بتختثر الذئبة اكثر من زمن البروثومبين.

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Abbreviations

APA: antiphospholipid antibody

APS: antiphospholipid syndrome

APTT: activated partial thromboplastin time

DIS: disseminated intra vascular coagulation

DVT: deep vein thrombosis

ELISA: enzyme linked immune sorbent assay

FDP: fibrinogen degradation product

HMWK: high molecular weight kinenogen

HSV: herpes simplex virus

IUGR: intra uterine growth restriction

IVF: invetro fertilization

KCCT: kaolin cephalin clotting time

LA: lupus anticoagulant

LPD: leuteal phase defect

MRI: magnetic resonace imaging

PCOS: poly cystic ovarian syndrome

PE: pulmonary embolism

PGD: pregenetic diagnosis

PGT: pregenetic testing

PLA₂: phospholipase A₂

PT: prothrombin time

TF: tissue factor

TSH: thyroid stimulaton hormone

TXA₂: thromboxance A₂