

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

الآية

قال تعالى:

[وَأَنْزَلَ اللَّهُ عَلَيْكَ الْكِتَابَ وَالْحِكْمَةَ
وَعَلَّمَكَ مَا لَمْ تَكُنْ تَعْلَمُ وَكَانَ فَضْلُ اللَّهِ عَلَيْكَ عَظِيمًا]

سورة النساء الآية (113)

DEDICATION

To my father

To my mother

To my husband and my children

To my brothers, sisters and friends

ACKNOWLEDGEMENT

First of all, thanks to ALMIGHTY ALLAH who helped me throughout this study.

Special thanks and gratitude extended to Dr. Hind Haidar Ahmed who has been ideal supervisor her advice, aided in writing this study.

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ABSTRACT

This was descriptive cross-sectional study conducted at Wad-Madani Maternity Hospital and Dr. Altigani Sedeeg Fertility Center AL-Gezira state during the period from April to August 2018. This study aimed to detect the frequency of HSV-2 IgG and IgM among pregnant women by using ELISA technique and to evaluate possible association between HSV and age, trimester, and history of abortion. Blood sample was collected from each participant and then serum was obtained. Ninety-two pregnant women were included in the study. Out of them 46 (50%) their age from 15-24 years, 35 (38.04%) from 25-34 years and 11 (11.96%) from 35-44 years. Considering the gestation trimester of participants 75 (81.5%) were in first trimester, 17 (18.5%) were in second trimester. Pregnant women with history of abortion 43 (46.7%) and pregnant women without history of abortion 49 (53.3%). The sera were examined for the presence of IgM/IgG using (ELISA). The study showed that the frequency of HSV-2 IgM among pregnant women was (38%) while IgG was (97.8%). Higher frequency showed in pregnant women with age group 15-24 year for IgM 13 (37.14%) / IgG 45 (50%). The seropositivity of HSV-2 IgM among pregnant women in first trimester were 26 (34.6%) for IgM 75 (100%) for IgG. Pregnant women with history of abortion 19 (44.2%) for IgM and 43 (100%) for IgG while 16 (32.6%) for IgM and 47 (96%) for IgG were pregnant women without history of abortion. In this study, there is no association between HSV-2 (IgM and IgG) seropositivity with age, trimester & a history of abortion. Further studies with larger sample size are required to confirm these results.

المستخلص

هذه دراسة وصفية مقطعية أجريت في مستشفى ود مدنى ومركز د. التجاني صديق للخصوبة بولاية الجزيرة خلال الفترة من ابريل الى اغسطس 2018. هدفت هذه الدراسة لتحديد تردد فيروس الحلاى البسيط النوع الثانى بين النساء الحوامل وتقييم العلاقة بين الإصابة بالفيروس والعمر، فصل الحمل وتاريخ الإجهاض.

شملت الدراسة 92 مشاركته من النساء الحوامل ، 46 (50%) من النساء الحوامل كانت اعمارهن من 15-24 سنة، 35 (38,04%) كانت اعمارهن من 25-34 سنة و 11 (11,96%) كانت اعمارهن من 35-44 سنة. بالنسبة لاشهر الحمل كان هناك 75 (81,5%) من النساء الحوامل فى الثلث الأول من الحمل و 17 (18,5%) فى الثلث الثانى من الحمل. من بين النساء الحوامل كان هناك 43 (46,7%) لديهن اجهاض سابق و 49 (53,3%) لم يكن لديهن اجهاض سابق. تم جمع عينات الدم من كل مشاركته وبعد ذلك تم الحصول على المصل وفحص الغلوبولين لفيروس الحلاى البسيط باستخدام الانزيم المناعى المرتبط (ELISA). أظهرت الدراسة ان نسبة انتشار فيروس الحلاى البسيط بين النساء الحوامل (97.8%) للغلوبولين المناعى IgG، (38%) للغلوبولين المناعى IgM من بين النتائج الإيجابية بين الحوامل ظهر ارتفاع تردد فيروس الحلاى البسيط فى النساء الحوامل فى الفئة العمرية 15-24 سنة 13 (37.14%) IgM و 45 (50%) IgG، كما وجد ان النتائج الإيجابية فى النساء الحوامل فى الثلث الأول من الحمل 26 (34.6%) IgM و 75 (100%) IgG كما أظهرت الدراسة ان نسبة النساء اللاتي لديهن اجهاض سابق 19 (44.2%) IgM و 43 (100%) IgG. أثبتت الدراسة انه لا توجد علاقة بين فيروس الحلاى البسيط النوع الثانى IgG- IgM مع العمر، اشهر الحمل و تاريخ الاجهاض. يلزم اجراء دراسات مستقبلية بحجم عينه أكبر لتأكيد هذه النتائج.

TABLE OF CONTENTS

NO	Subjects	Page No
	الآية	I
	Dedication	II
	Acknowledgment	III
	Abstract	IV
	المستخلص	V
	Table of contents	VI
	List of Tables	IX
	List of Figures	X
	List of Abbreviations	XI
CHAPTER ONE		
INTRODUCTION		
1.1	Introduction	1
1.2	Rationale	2
1.3	Objectives	3
1.3.1	General objective	3
1.3.2	Specific objectives	3
CHAPTER TWO		
LITERATURE REVIEW		
2.	Literature review	4
2.1	Herpes simplex virus	4
2.2	Historical information	4
2.3	Taxonomy	4

2.4	Classification	5
2.5	Viral structure	6
2.6	Cellular entry	7
2.7	Viral genome	8
2.8	Replication	8
2.9	Latent infection	9
2.10	Transmission	10
2.11	Epidemiology	10
2.12	Herpes simplex virus infection	11
2.12.1	Signs and symptoms	12
2.12.2	Primary infection	12
2.12.3	Latent infection	12
2.12.4	Reactivation	13
2.12.5	Recurrent infection	13
2.12.6	Genital herpes	13
2.12.7	Neonatal herpes	15
2.12.8	Encephalitis	16
2.13	LaboratoryDiagnosis	16
2.13.1	Tzanck smear assay	16
2.13.2	Direct fluorescent antibody	16
2.13.3	Molecular method	17
2.13.4	Viral culture	17
2.13.5	Serology	18
2.13.5.1	Whole antigen-based (non-g G specific) detection method	18
2.13.5.2	Glycoprotein G (g G)- based detection method	18
2.13.5.3	Other serological detection methods	18
2.14	Treatment	18

2.15	Prevention and control	19
2.15.1	Vaccination	20
CHAPTER THREE MATERIALS AND METHODS		
3.1	Study design	21
3.2	Study area and duration	21
3.3	Study population	21
3.4	Inclusion criteria	21
3.5	Exclusion criteria	21
3.6	Sample size	21
3.7	Sampling Technique	21
3.8	Method of data collection	21
3.9	Specimens collection	22
3.10	ELISA detection of HSV-2 IgM and IgG	22
3.11.1	Calculation of results	22
3.11.2	Interpretation of Result	23
3.12	Ethical consideration	23
3.13	Data analysis	23
CHAPTER FOUR RESULT		
	Results	24
CHAPTER FIVE DISCUSSION		
5.1	Discussion	29
5.2	Conclusion	31
5.3	Recommendations	32
	References	33

	Appendices	39
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LISTOFTABLES

Tables	PageNO
Table(4.1): Frequency of data sociodemographic of pregnant women.	25
Table (4.2): Frequency of HSV-2 IgM and IgG among pregnant women	25
Table (4.3): The association of HSV-2 IgM among pregnant women with age, trimester stage and history of abortion.	26
Table (4.4): The association of HSV-2 IgG among pregnant women with age, trimester stage and history of abortion.	27

LIST OF FIGURE

Figure	PageNO
Fig 2.1 Structure of the HSV	7

LIST OF ABBREVIATION

Abbreviation	Full name
AIDS	Acquired immuno deficiency syndrome
CSF	Cerebro spinal fluid
CPE	Cyto-pathic effect
DFA	Direct fluorescent antibody
DNA	Deoxyribo Nucleic Acid
ELISA	Enzyme Linked Immuno Sorbent Assay
Gg	Glycoprotein G
HIV	Human Immuno Deficiency Virus
HSV	Herpes Simplex Virus
ICTV	Internal Committee on Taxonomy of Virus
IgG	Immunoglobulin G
IgM	Immunoglobulin M
LAT	Latency Associated Transcript
ORFs	Open Reading Frames
PCR	Polymerase Chain Reaction
TORCH	Toxoplasma gondi, Others, Rubella, Cytomegalovirus and Herpes simplex virus
UL	Long Unique
US	Short Unique
WB	Western Blot