

الآيات

قال تعالى :

{خَلَقَكُمْ مِّن نَّفْسٍ وَاحِدَةٍ ثُمَّ جَعَلَ مِنْهَا زَوْجَهَا وَانزَلَ لَكُم مِّنَ
الْأَنْعَامِ ثَمَانِيَةَ أَزْوَاجٍ يَخْلُقُكُمْ فِي بُطُونِ أُمَّهَاتِكُمْ خَلْقًا مِّن بَعْدِ
خَلْقٍ فِي ظِلْمَاتٍ ثَلَاثٍ ذَٰلِكُمْ اللَّهُ رَبُّكُمْ لَهُ الْمُلْكُ لَا إِلَهَ إِلَّا هُوَ
فَإَنَّى تُصْرَفُونَ } الزمر 6

{إِنَّ اللَّهَ لَا يَخْفَىٰ عَلَيْهِ شَيْءٌ فِي الْأَرْضِ وَلَا فِي السَّمَاءِ * هُوَ
الَّذِي يُصَوِّرُكُمْ فِي الْأَرْحَامِ كَيْفَ يَشَاءُ لَا إِلَهَ إِلَّا هُوَ الْعَزِيزُ
الْحَكِيمُ } آل عمران ٦ آل عمران (5-6)

{اللَّهُ يَعْلَمُ مَا تَحْمِلُ كُلُّ أُنْثَىٰ وَمَا تَغِيضُ الْأَرْحَامُ وَمَا تَزْدَادُ وَكُلُّ
شَيْءٍ عِنْدَهُ بِمِقْدَارٍ * عَالِمُ الْغَيْبِ وَالشَّهَادَةِ الْكَبِيرُ الْمُتَعَالِ }
الرعد (8-9)

صدق الله العظيم

Dedication

I dedicate this work to solo of my father, my mother, my sisters, my brothers, my teachers and my friends.

Always you are sitting in mine and courage me to do the best in my life.

Best regards for all.

Acknowledgment

I thank God for enabling me to complete this thesis. I sincerely thank Dr.Alsafi Ahmed, the supervisor of my thesis for his continuous help, supervision and guidance.

I greatly thank all those who supported and helped me to complete this thesis. I am very grateful to all my teachers in all educational levels, especially thanks for my teachers Dr. Mohammed Alfadul and Dr. Mohammed Ahmed.

Very much thanks to the staff of Alfaow Hospital, especially the staff of X-Ray and Ultrasound Department for their help and co-operation to achieve my work.

Abstract

This study deals with the ultrasound finding of abnormal vaginal bleeding in Alfaow city

The objective of this study was to determine the causes of abnormal vaginal bleeding to find out any sonographical markers. It was carried out on 100 patients complaining of abnormal vaginal bleeding in Alfaow city includes Hospital and Clinics. The study was conducted from August up to December 2011. The machines used in the study were Toshiba with 3-5 MHz and Mandarin machine with 3.5 MHz, probes was convex with frequencies ranging from 3-4MHz. All patient were prepared by full bladder and using trans-abdominal probe. All patients scanned with supine position technique.

After the detailed literary work the study comes to conclusion that pregnancy problems is the commonest cause of abnormal vaginal bleeding which is constitute 88%, the others factors of abnormal vaginal bleeding include uterine fibroids 6%, ovarian masses 5% and endometrium Ca 1%.

The study reveal that the incidence of abnormal vaginal bleeding is more common in patients of age 23-25 which constitute 33% and weight 62-65 Kg which constitute 31%.

The study shows that most patients are house wife which constitute 73% and most of them in the rural area which constitute 71%.

Most causes of abnormal vaginal bleeding are associated with irregular menstrual cycles which constitute 58%.

The most parity associated with abnormal vaginal bleeding is 2 which constitute 45%.

ملخص البحث

هذا البحث اهتم بدراسة نتائج الموجات فوق الصوتية لحالات النزف المهبلي الغير طبيعى في مدينة الفاو. إن الهدف من هذه الدراسة هو الكشف عن أسباب النزف المهبلي الغير طبيعى بواسطة الموجات فوق الصوتية. عدد المرضى الذين أجريت عليهم الدراسة مائة مريض يعانون من النزف المهبلي الغير طبيعى في مستشفى الفاو وبعض العيادات الخاصة. هذه الدراسة أجريت في الفترة من أغسطس إلى ديسمبر 2011م. الجهاز الذي أستعمل في هذه الدراسة توشيا ومندارى وأما المسبار كان محدب بتردد يتراوح من 3-4 ميغاهيرتز. جميع المرضى تم تحضيرهم بملء المثانة وباستخدام المسبار البطني. كُُلُّ المرضى مسحوا بتقنية الوضع المنبطح.

خلصت الدراسة إلى أن السبب الرئيسى فى النزف المهبلى الغير طبيعى هو مشكلات الحمل التى شكلت 88%, من الاسباب. أما العوامل الاخرى فتمثلت فى اللحمية 6%, واورام المبيض 5%, واورام بطانة الرحم 1%. وتوصلت الدراسة إلى أن معظم المرضى الذين يعانون من النزف المهبلى الغير طبيعى تتراوح اعمارهم من 23 الى 25 سنة ويمثلون 33% من المرضى. إضافة إلى أن معظم المرضى تتراوح احجامهم بين 62 إلى 65 كيلوجرام ويمثلون 31%.

وأظهرت الدراسة أن نسبة النزف المهبلى الغير طبيعى عالية بين ربات البيوت وتصل نسبتهم من جملة الرضى إلى 73% والنسبة مرتفعة ايضاً فى المناطق الريفية المتمثلة فى القرى حول مدينة الفاو مقارنة بمدينة الفاو والذين تصل نسبتهم إلى 71% من المرضى. واظهرت الدراسة ان النزف المهبلى الغير طبيعى فى أغلب الحالات مصحوب بدورة شهرية غير منتظمة (58%).

List of abbreviations

CL	Corpus Luteum
DUB	Dysfunction Uterine Bleeding
EP	Ectopic Pregnancy
EH	Endometrial Hyperplasia
GTD	Gestational Trophoblastic Disease
HCG	Human Chorionic Gonadotropin
HM	Hydatidiform Mole
IUCD	Intra Uterine Contraceptive Device
IUFD	Intra Uterine Fetal Death
KHz	Kilo Hertz
PPH	Post Partum Hemorrhage
PCOD	Polycystic Ovarian syndrome Disease
SPSS	Statistic Package for Social Studies
TAS	Trans Abdominal Sonogram
AUB	Abnormal Uterine Bleeding
Ca	Cancer
V.B	Vaginal Bleeding
M.C	Menstrual Cycle

List of figures

Figures	Title	Page
2.1 Figure 1	Female Reproductive System	6
2.2 “ 2	Sagital Section of [elvis	8
2.3 “ 3	Fallopian Tube	14
2.4 “ 4	Cross Section Anatomy of Ovary	15
2.5 “ 5	Missed Miscarriage	25
2.6 “ 6	Incomplete Miscarriage	25
2.7 “ 7	Ectopic Miscarriage	27
2.8 “ 8	Ectopic pregnancy	28
2.9 “ 9	Molar Pregnancy	30
2.10 “ 10	Complete Placenta Previa	32
2.11 “ 11	Complete Placenta Previa	32
2.12 “ 12	Incomplete Placenta Previa	33
2.13 “ 13	Abruption Placenta	35
2.14 “ 14	Abruption Placenta	35
2.15 “ 15	Uterine Anomalies	37
2.16 “ 16	Fibroid Location in the Uterus	39
2.17 “ 17	Fibroid	40
2.18 “ 18	Fibroid	40
2.19 “ 19	Adenomyosis	41
2.20 “ 20	Pedunculated polyp of the Cervix	42
2.21 “ 21	Endometrial polyp outline by Fibroid	43
2.22 “ 22	Endometrial Hyperplasia	44
2.23 “ 23	Simple Ovarian Cyst	45
2.24 “ 24	Dremoid Cyst	45
2.25 “ 25	Ovarian Ca	45
2.26 “ 26	Ovarian Ca	46
2.27 “ 27	Complex Cystic solid Mass	46
2.28 “ 28	Polycystic Ovarian Syndrome	48
2.29 “ 29	Intra Uterine Trauma	49
2.30 “ 30	Endometrial Ca	50
2.31 “ 31	Endometrial Ca	51
4.1 “ 1	Line Graph shows Causes of V.B	54
4.2 “ 2	Shows different type of V.B according to Causes	55
4.3 “ 3	Shows Frequency of V.B in different Trimesters	56
4.4 “ 4	Shows Frequency of V.B according to Causes	56
4.5 “ 5	Shows Frequency of V.B according to Occupation	57
4.6 “ 6	Shows Frequency of V.B according to Residence	57
4.7 “ 7	Shows different type of V.B according to M.C	58
4.8 “ 8	Shows different Causes of V.B in different Trimesters	59
4.9 “ 9	Shows different Causes of V.B and Occupation	60
4.10 “ 10	Shows different Causes of V.B and age group	60
4.11 “ 11	Shows different Causes of V.B and age group	61
4.12 “ 12	Shows different Causes of V.B and Weight group	62
4.13 “ 13	Shows different Causes of V.B and Weight group	63
4.14 “ 14	Shows Causes of V.B in different Trimesters	64
4.15 “ 15	Shows relationship between causes of V.B and age group	64

4.16 “	16	Shows relationship between causes of V.B and age group	65
4.17 “	17	Shows relationship between causes of V.B and M.C	65
4.18 “	18	Shows relationship between causes of V.B and Parity	66
5.1 “	1	Incomplete Miscarriage	78
5.2 “	2	Complete Miscarriage	78
5.3 “	3	Missed Miscarriage	78
5.4 “	4	Threatened Mscarriage	79
5.5 “	5	Inevitable Miscarriage	79
5.6 “	6	Blighted Ovum	79
5.7 “	7	IUFD	80
5.8 “	8	Molar Pregnancy	80
5.9 “	9	Ectopic Pregnancy	80
5.10 “	10	Placenta Previa	81
5.11 “	11	Abruption Placenta	81
5.12 “	12	Multiple Fibroids	81
5.13 “	13	Complicated Ovarian Cyst	82
5.14 “	14	Endometrium Ca	82

List of tables

Tables	Title	Pages
2.1 Table 1	Shows type of Miscarriage	24
4.1 “ 1	Shows frequency of causes of V.B	54
4.2 “ 2	Shows frequency of V.B according to causes	55
4.3 “ 3	Shows frequency of V.B in different trimesters	56
4.4 “ 4	Shows frequency of V.B according to causes	56
4.5 “ 5	Shows frequency of V.B according to occupation	57
4.6 “ 6	Shows frequency of V.B according to residence	57
4.7 “ 7	Shows frequency of V.B according to M.C	58
4.8 “ 8	Shows causes of vaginal bleeding in different trimesters	58
4.9 “ 9	Shows frequency of V.B according to occupation	59
4.10 “ 10	Shows frequency of V.B and age group	60
4.11 “ 11	Shows frequency of V.B and age group	61
4.12 “ 12	Shows frequency of V.B and age weight group	62
4.13 “ 13	Shows frequency of V.B and weight group	63
4.14 “ 14	Shows causes of V.B in different trimesters	64
4.15 “ 15	Shows the relationships between causes of V.B and age group	64
4.16 “ 16	Shows the relationships between causes of V.B and weight group	65
4.17 “ 17	Shows the relationships between causes of V.B and M.C	65
4.18 “ 18	Shows the relationships between causes of V.B and w parity	66
5.1 “ 1	Shows the master table	73

Table of Contents

Topics	P.Number
Quran	I
Dedication	II
Acknowledgement	III
Abstract	IV
Arabic Abstract	V
List of Abbreviations	VI
List of figures	VII
List of tables	IX
Table of Contents	X
Chapter One : Introduction	
Introduction	1
Objective	2
Over view of the study	3
Capter Two : Literature review	
Literature review	4
Role of Ultrasound	5
Anatomy	6
Physiology	16
pathology	23
Chapter Three: Methodology	
Methodology	52
Chapter Four: Results	
Results and Analysis	54
Chapter Five: Discussion, Conclusion and Recommendations	
Discussion	67
Conclusion	69
Recommendation.	69
References.	71
Appendices	73