



**SUDAN UNIVERSITY OF SCIENCE AND
TECHNOLOGY
COLLEGE OF GRADUATE studies**

Study of Pelvic Pain in First Trimester by
Using Ultrasound

در
أداة آلام الحوض في الثلث الأول
من الحمل باستخدام الموجات فوق
الصوتية

**ATHESIS SUBMITTED FOR PARTIAL FULFILMENT OF MSC
DEGREE IN MEDICAL ULTRASOUND**

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الآية الكريمة

قال تعالى: (هُوَ الَّذِي يُصَوِّرُكُمْ فِي الْأَرْحَامِ كَيْفَ يَشَاءُ

لَا إِلَهَ إِلَّا هُوَ الْعَزِيزُ الْحَكِيمُ ﴿٦﴾

سورة آل عمران

سورة الشورى

وقال تعالى: (لِلَّهِ مُلْكُ

السَّمَوَاتِ وَالْأَرْضِ يَخْلُقُ مَا يَشَاءُ يَهَبُ لِمَن يَشَاءُ إِن شَاءَ

وَيَهَبُ لِمَن يَشَاءُ الذُّكُورَ ﴿٤٩﴾ أَوْ يُزَوِّجُهُمْ ذُكْرَانًا وَإِن شَاءَ

وَيَجْعَلُ مَن يَشَاءُ عَقِيمًا إِنَّهُ عَلِيمٌ قَدِيرٌ ﴿٥٠﴾

Dedication

To whom my life is given a purpose I would like to thank Allah and then my mother's soul who encouraged me to perform this master who wished from the bottom of her heart to see me reaching the master degree and also My profound thanks to my father, then my wonderful family, especially to my loving wife Samar who had sacrificed her time and career to undertake my Master. Her encouragement and never ending low of moral support. Also to all my children Altayeb, Wigdan. They are all under 10 years of age, they haven t got any idea what this task is all about but never doubted their dad will succeed., I also thank my brothers and sisters for their never ending encouragement. And my special thanks to my sister`s son Altayeb which his age is below 15 for his hard working to type and arrange this research.

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Abstract

This study done to know and evaluate the causes and symptoms of the pelvic pain in the first trimester using

ultrasound as diagnostic imaging modality. This study conducted at Omdurman maternity & Al Saudi hospitals, in the period from 15 May 2013 to 1 August 2015. In this study Ultrasound machine of Aloka type which has Doppler capability, with a convex probe for abdominal examination and sector one for trans-vaginal and another machine of sonac were used . The frequency of the transducers range between 3.5 -7.5 MHZ. The study was done in 73 women pregnant in the first trimester, their ages range between (15-44years).

The results of this study showed that 4 patients (5.5%) their clinical signs are pain only, 5 patients (6.8%)suffering from pain watery discharge,36 patients (49.3%) pain with bleeding and28 patients (38.4%) pain with bleeding and watery discharge. Also the results showed that 13patients (17.8%) with complete abortion, 2 patients (2.7%) ectopic pregnancy, 16 patients (21.9%) incomplete abortion,4 patients (5.5%) normal pregnancy,3 patients (4.1%) inevitable abortion,13 patients (17.8%) missed abortion,8 patients (11.0%)threatened abortion,7 patients(9.6%)blighted ovum,2 patients (2.7%)and 5 patients(6.8%) pregnancy with bleeding.

ملخص الدراسة

اجري هذا البحث لمعرفة وتقييم اسباب واعراض الام الحوض في مرحلة الحمل الاولى باستخدام الموجات فوق الصوتية كوسيلة للتشخيص .

واجري هذا البحث بمستشفى الولادة امدرمان والمستشفى السعودي للنساء والتوليد في الفترة ما بين 15 مايو 2013 الي 1 اغسطس 2015 . استخدم في هذه الدراسة جهاز موجات فوق الصوتية ماركة الوكا ويقدم خدمة تصوير الاوعية الدموية (دوبلر) يحتوي علي مجس محدب لتصوير الاعضاء الداخلية للبطن والحوض ومجس اخر مهبلي واستخدم ايضا في هذه الدراسة جهاز موجات فوق الصوتية اخر ماركة سوناك ذو مجسات تتراوح تردداتها بين 3,5 الي 7,5 ميغاهيرتز.

اجري هذا البحث علي 73 امراة في مرحلة الحمل الاولى تتراوح اعمارهن ما بين 15-44 سنة . اوضحت النتائج :

ان 4 مريضات (5.5%) يعانين من الام في الحوض فقط , 5 مريضات (6,8%) يعانين من الام حوض وافراز مائي , 36 مريضة (49,3%) يعانين من الم ونزيف مهبلي و 28 مريضة (38,4%) يعانين من الم ونزيف مهبلي وافراز مائي معا . واوضحت الدراسة ايضا ان 13 مريضة (17,8%) اجهاض كامل , مريضتين (2,7%) حمل خارج الرحم , 16 مريضة (21,9%) اجهاض غير كامل , 4 مريضات (5,5%) حمل طبيعي , 3 مريضات (4,1%) اجهاض مهدد , 13 مريضة (17,8%) اجهاض غير معروف , 8 مريضات (11%) اجهاض بسيط و 5 مريضات (6,8%) حمل مصحوب بنزيف مهبلي .

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