



شبكة المعلومات الجامعية



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

شبكة المعلومات الجامعية
@ ASUNET





شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
على هذه الأفلام قد اعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15 – 20 مئوية ورطوبة نسبية من 20-40 %

To be kept away from dust in dry cool place of
15 – 25c and relative humidity 20-40 %



شبكة المعلومات الجامعية



بعض الوثائق الأصلية تالفة



شبكة المعلومات الجامعية



بالرسالة صفحات

لم ترد بالأصل

Assiut University
Faculty of Medicine
Radiology Department



**ROLE OF UTERINE ARTERY EMBOLIZATION
IN THE TREATMENT OF UTERINE FIBROID**

**THESIS
SUMMITTED FOR PARTIAL FULFILMENT FOR THE
REQUIREMENTS OF MD DEGREE IN DIAGNOSTIC
RADIOLOGY**

**BY
MOSTAFA HASHEM MAHMOUD
(MB.B.Ch. MS.C. IN RADIODIAGNOSIS)**

**SUPERVISORS
PROF. Dr. YAHIA ABD EL-AZIZ ALI
PROF. OF DIAGNOSTIC RADIOLOGY
FACULTY OF MEDICINE
ASSIUT UNIVERSITY**

**Dr. DEIA EL-DEIN ABD EL-AAL EL-NASHAR
ASSISTANT PROF. OF GYNECOLOGY AND OBSTETRICS
FACULTY OF MEDICINE
ASSIUT UNIVERSITY**

**Dr. ABDEL-KARIM HASAN ABDALLA
ASSISTANT PROF. OF DIAGNOSTIC RADIOLOGY
FACULTY OF MEDICINE
ASSIUT UNIVERSITY**

2004

B
TAVE

ALL THANKS TO

ALLAH

Greatest of all

For the countless gifts

I have been offered

*This work never be crowned by success
without the blessing of ALLAH to whom
my loyalty will remain forever beyond any
compromise.*

*Then I wish to express all thank to
messenger Mohamed the master of all the
humanity.*

TO MY PARENTS
MY WIFE
MY BEAUTIFUL KIDS
REEM & SOHAILA

CONTENTS

Title	Page
INTRODUCTION AND AIM OF THE WORK	1
REVIEW OF LITERATURE	
1- ANATOMY OF THE HYPOGASTRIC ARTERY.....	3
2- ANGIOGRAPHIC ANATOMY OF THE INTERNAL ILIAC ARTERY AND ITS BRANCHES.	11
3- UTERINE LEIOMYOMAS , HISTOPATHOLOGIC FEATURES	18
4- UTERINE LEIOMYOMAS , CLASSIFICATION	21
5- COMPLICATIONS OF UTERINE LEIOMYOMAS.	23
6-SPECIFIC TYPES OF UNUSUAL LEIOMYOMAS.....	25
7- CLINICAL PRESENTATION OF UTERINE LEIOMYOMAS.	29
8- MRI APPEARANCE OF LEIOMYOMAS.	35
9- ROLE OF MRI IN TREATMENT WITH UAE.	40
10- TREATMENT OF UTERINE LEIOMYOMAS	49
11- EMBOLIZATION TOOLS AND TECHNIQUES.	54
12- EMBOLIZATION MATERIALS USED IN UAE.	60
12- UTERINE FIBROID EMBOLIZATION TECHNIQUE.	64
PATIENTS AND METHODS.	74
ANALYSIS OF RESULTS.	87
CASE PRESENTATION.	102
DISCUSSION.	118
CONCLUSION AND RECOMMENDATIONS.	131
SUMMARY.	133
REFERENCES.	135

ABBREVIATIONS USED IN THIS THESIS

Abbreviation	Word
UAE	Uterine Artery Embolization.
MRI	Magnetic Resonance Imaging.
IIA	Internal Iliac Artery.
US	Ultrasonography.
CT	Computed Tomography.
PVA	Polyvinyl alcohol.
AVM	Arteriovenous malformation.
C	Cobra Head Catheter.
S	Simon's Catheter.
Fr	French.
PV	Per-Vaginal.
TUV	Total Uterine Volume.
D&C	Dilatation and Curettage.

ACKNOWLEDGEMENT

No words can faithfully and adequately express my profound gratitude and thankfulness to **Prof. Dr. Yehia Abd El-Aziz**, Professor of Radiology, Assiut Faculty of Medicine. His faithful guidance, kind supervision and powerful support through out the whole work allowed the progress and completion of this work.

I would like to further express my sincere appreciations and thanks to **Dr. Abd El-Karim Hasan Abd Alla**, Assistant Professor of Radiology, Assiut Faculty of Medicine, for his continuous and meticulous supervision. He was very kind with me.

I would like to express my deepest thanks and gratefulness to **Dr. Deiaa El-Din Mohamed A. El-Aal**, Assistant lecturer of Gynaecology and Obstetrics, Assiut Faculty of Medicine, for his immense and useful help for his valuable advice.

My special thanks go to my colleagues particularly **Dr. Haisam Ahmed Samy**, Demonstrator of radiology, South Egypt Cancer Institute, for his kind help.

Last but not least, I am grateful to my senior staff, technicians and nursing staff of the MRI unit and the Interventional unit in the Radiology department, Assiut University Hospital.

Mostafa Hashem

2004



Introduction