



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



شبكة المعلومات الجامعية
@ ASUNET



شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار

في درجة حرارة من ١٥-٢٥ مئوية ورطوبة نسبية من ٢٠-٤٠%

To be Kept away from Dust in Dry Cool place of
15-25- c and relative humidity 20-40%

بعض الوثائق الأصلية تالفة

بالرسالة صفحات لم ترد بالاصل

1
503

The use of Uterine Artery Embolization technique as a management option for treating uterine fibroids.

A systematic review submitted for partial fulfillment of M.Sc.
in Obstetrics and Gynecology.

Submitted By

Hany Abd Elwahid Faheem

M.B.,B.CH 2000
Suez Canal University

618, 145

Supervised By

Prof. Galal Lotfy Mohammed

Prof. of Obstetrics and Gynecology
Faculty of Medicine
Suez Canal University

Dr. Tarek Hassan Khalil.

Asses. Prof. of Radiology and medical imaging
Faculty of Medicine
Suez Canal University

Dr. Mohammed Mokhtar Shaaban.

Lecturer in Obstetrics and Gynecology
Faculty of Medicine
Suez Canal University

Faculty of Medicine
Suez Canal University
2004

ACKNOWLEDGEMENT

*It gives me a great pleasure to express my gratitude to **Prof. Galal Lotfy** , chairman of the Ob./Gyn dept. , Suez Canal University for his kind , fatherly support , both scientific and moral working under his supervision .*

*I am deeply indebted to **Dr. Mohammad Shaaban** for his unfailing support, close supervision, road mapping, inspiration and enthusiasm to bring this essay out to light.*

He was the "fuel to the working engine".

*I would like also to thank **Dr. Tarek Hassan** for his valuable advice, continuous encouragement and scientific guidance.*

I owe my parents everything I am or will be for their dedication, sincere advise, guidance and doing all they can to provide me the suitable environment.

CONTENTS

Introduction	1
Aim of the work	3
Methodology	4
Scientific background	
<i>Chapter I</i>	
<i>Uterine Fibroids</i>	
Definition	8
Prevalence	13
Risk factors	16
Etiology	18
Natural history	21
Clinical associations	24
<i>Blood supply of the uterus</i>	29
 <i>Chapter II</i>	
<i>Assessment of uterine fibroids</i>	
Ultrasound	34
Sonohysterography	37
Hysteroscopy	39
Laparoscopy	41
Computed tomography CT	42
Magnetic resonance imaging MRI	43
 <i>Chapter III</i>	
<i>Management of uterine fibroids</i>	
Medical treatment not followed by surgery	47
Preoperative medical treatment	55
Surgical management	57
Hysteroscopy	57
Myomectomy	59
Hysterectomy	65
New techniques	66
Management during pregnancy	67

Chapter IV

Uterine artery embolization (UAE)

Evolution	70
Patient selection	71
Contraindications to UAE	72
Preprocedural evaluation	75
Preriprocedural care	81
Angiographic equipments	89
Angiographic technique of UAE	90
Types of embolic agents	102
Complications of UAE	107

Clinical trials of Uterine Artery Embolization	124
---	-----

Conclusion and summary of recommendations	147
--	-----

References	150
-------------------	-----

Appendix

Arabic summary

LIST OF FIGURES

Figure	Description	Page
1.	Multiple uterine fibroids	9
2.	Different locations of uterine fibroids	10
3.	The microscopic appearance of a leiomyoma	11
4.	The microscopic appearance of a leiomyosarcoma	23
5.	Ultrtrasound view showing intramural fibroid	35
6.	Ultrtrasound view showing a subserous fibroid	35
7.	Sonohysterographic view of uterine fibroids	38
8.	Sonohysterographic view of uterine fibroids	38
9.	Hysteroscopic view of submucous fibroid	39
10.	Laparoscopic view, showing multiple, pedunculated, subserous fibroids	41
11.	CT view of the pelvis showing uterine fibroids	42
12.	Sagittal T2 weighted MRI showing a huge uterine fibroid	44
13.	Sagittal T2 weighted MRI showing multiple uterine fibroids	44
14.	Sagittal T2 weighted MRI showing multiple uterine fibroids	44
15.	Sagittal T2 weighted MRI showing multiple uterine fibroids before UAE.	79
16.	Sagittal T2 weighted MRI showing reduced fibroids size at 14 weeks	79
17.	Sagittal T2 weighted MRI showing size of the uterus at 27 weeks after embolization	79
18.	Femoral access site for UAE	91
19.	Non selective pelvic angiogram before UAE	93
20.	Selective angiogram of the uterine artery	93
21.	Trascatheteric embolization using PVA particles	96
22.	Selective angiogram of the right uterine artery	97
23.	Selective angiogram of the left uterine artery	97
24.	Non selective angiogram of the pelvis after embolization	98
25.	Pre embolization angiogram	99
26.	Post embolization angiogram	99
27.	Pre embolization angiogram	99
28.	Post embolization angiogram	99
29.	Ultrasound view of the uterus pre- and post UAE	101

