
RECENT UPDATE ON EARLY DIAGNOSIS AND
MANAGEMENT OF ENDOMETRIOSIS

Review of literature

Submitted for the complete fulfillment of Master Degree
in

Obstetrics and Gynecology

By

Hebatallah Hamada Hamdy Al-Kareh

Ghamra Military Hospital

MB BCh (2002)

Faculty of Medicine –Kasr Al-Aini– Cairo University

Supervised By

Professor Doctor

Mohammed Momtaz

Faculty of Medicine
Cairo University

Assistant Professor Doctor

Ismael Abo Al Foutouh

Faculty of Medicine
Cairo University

Lecturer Doctor

Ahmed Zakaria

Faculty of Medicine
Cairo University

Cairo University 2009

محضر

اجتماع لجنة الحكم على الرسالة المقدمة من
الطبيب / هبة الهادي حمدي التايح
توطئة للحصول على درجة الماجستير / الدكتوراه
في الموليبدينوم في النساء
=====

تحت عنوان : باللغة الانجليزية : Recent Update on early
diagnosis and management of endometriosis

: باللغة العربية :
الحديث في التشخيص المبكر
وعلاج داء البطانة الرحمية

- بناء على موافقة الجامعة بتاريخ ٢٠٠٩ / ٤ / ٢٠ تم تشكيل لجنة الفحص والمناقشة
للرسالة المذكورة أعلاه على النحو التالي :-
١. P. د. محمد صابر محمد عن المشرفين
 ٢. P. د. محمد عبد العزيز محمد عبد المنعم عن الممتحن الداخلي
 ٣. P. د. عفاف علي راسم عن الممتحن الخارجي

بعد فحص الرسالة بواسطة كل عضو مفردا وكتابة تقارير منفردة لكل منهم اتفقت اللجنة
مجتمعة في يوم الخميس بتاريخ ٢٠٠٩ / ٥ / ٢٨ بقسم الدراسات العليا بـ شهران
بكلية الطب - جامعة القاهرة وذلك لمناقشة المذات في جلسة علنية في موضوع الرسالة والنتائج
التي توصل اليها وكذلك الأسس العلمية التي قام عليها البحث .

قرار اللجنة :

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المشرف الممتحن

عصام

الممتحن الداخلي

الممتحن الخارجي

بسم الله الرحمن الرحيم

وَمَنْ يَتَّقِ اللَّهَ يَجْعَلْ لَهُ مَخْرَجاً وَيَرْزُقْهُ مِنْ حَيْثُ لَا
يَحْتَسِبُ وَمَنْ يَتَوَكَّلْ عَلَى اللَّهِ فَهُوَ حَسْبُهُ إِنَّ اللَّهَ بَالِغُ
أَمْرِهِ قَدْ جَعَلَ اللَّهُ لِكُلِّ شَيْءٍ قَدْرًا

صدق الله العظيم

[سورة الطلاق آية ٢ ، ٣]

Before all and above all... thanks to

GOD

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Heba, 2009

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Loving tender caring and the closest person to my heart uncle Hani.

Last but not least, I dedicate it to a very unique, special person, whom I wished was beside me now, my grandma Soad ... GOD bless her soul.

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Abstract

Endometriosis is characterized by the presence of functioning endometrial glands and stroma outside the inner surface of the uterine cavity .

Laparoscopy is the gold standard for the diagnosis of endometriosis.

Medical treatment includes symptomatic treatment such as NSAIDS and hormonal treatment.

Surgical treatment goal is to excise or coagulate all visible endometriotc lesions and adhesions and to restore the normal anatomy of the pelvis.

Key Words : Endometriosis – adhesions – Laparoscopy

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List of Abbreviations

- **AFS:** American Fertility Society.
- **CA- 125:** Ovarian carcinoma antigen
- **COC:** Combined oral contraceptives
- **COH:** Controlled ovarian hyper stimulation
- **DIUD:** Danazol contained in an intrauterine device.
- **DMPA SC 104.** Depot medroxy progesterone acetate sub cutaneous 104
- **ESHRE:** European Society of Human Reproduction and Embryology.
- **FSH:** Follicular stimulating hormone.
- **GALT:** Galactose phosphate uridylyltransferase
- **GnRH:** Gonadotrophin – releasing hormone.
- **GSTMI:** Glutathione – S- transferase pi-1
- **HRT:** Hormone replacement therapy.
- **ICSI:** Intra cytoplasmic sperm injection
- **IL- 1,6,8:** interleukin – 1, 6, 8,etc
- **IUD:** Intrauterine device
- **IUI:** Intra uterine insemination
- **IVF:** Invitro fertilization
- **LH:** Luteinizing hormone
- **LNIUD:** Levonorgestrel intrauterine device.
- **LUNA:** Laparoscopic uterine nerve ablation.
- **MRI:** Magnetic resonance imaging.
- **NAT 2:** Arylamine – n- acetyl tranferase nat (arylamine acetylase)
- **NSAIDS:** Non steroidal anti inflammatory drugs
- **PID:** Pelvic inflammatory disease

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- **PROGINS:** Gene coding for progesterone receptor.
 - **R-AFS:** Revised American Fertility Society.
 - **RCTS:** Randomized controlled trial.
 - **TNF- α :** Tumor necrosis factor- α .
 - **U/S:** Ultrasonography
 - **VEGF:** Vascular endothelial growth factor.

INTRODUCTION

Endometriosis is a benign disease defined by the presence of ectopic endometrial glands and stroma and associated with pelvic pain and infertility. (*Leon et al., 2005a*)

Family studies have suggested a role for genetic factors in the etiology of endometriosis. (*Zondervan, 2001*)

Endometriosis is associated with changes in both cell mediated and humoral immunity. (*Leon et al., 2005b*)

Establishing the diagnosis of endometriosis on the basis of symptoms only is difficult because the symptoms are variable and overlap with other conditions. (*Husbay et al., 2003*)

Endometriosis staging has undergone significant changes since 1917, the current classification is revised American Society of Reproductive Medicine (*Thomas et al., 2007b*)

Endometriosis can have varying ultrasonographic features but typically appears as cystic structures with diffuse low-level internal echoes surrounded by a crisp echogenic capsule (*Patel et al., 1999*).

In most women with endometriosis, preservation of reproductive function is desirable. The least invasive approach that is effective with the least risk in the long run should be chosen (*Kennedy et al., 2005*)

Definition

Endometriosis is a benign disease defined by the presence of ectopic (outside the uterus) endometrial glands and stroma and associated with pelvic pain and infertility (*Leon et al., 2005a*)

Epidemiology

Advances in understanding the epidemiology of endometriosis have lagged behind other diseases because of methodological problems related to disease definition and control selection. Prevalence estimates of the disease in clinic populations vary from about 4% occurrence of largely asymptomatic endometriosis found in women undergoing tubal ligation to 50% of teenagers with intractable dysmenorrhea. (*Cramer et al., 2002*)

There is virtually no incidence of endometriosis, although prevalence is often estimated to be 10-15% of women (*Vigano et al., 2004*)

There is a clinical impression that Blacks have lower rates of endometriosis and Orientals have higher rates than Whites. Women with endometriosis may be taller and thinner. Menstrual factors reported to increase the risk, include: dysmenorrhea, early menarche, and shorter cycle lengths; life style exposures that may increase or decrease estrogen levels, affect the risk, including a decreased risk associated with smoking and exercise, and increased risk associated with caffeine or alcohol use. Nulliparity could be either a consequence of disease or a cause since nulliparous women don't have the benefit of cervical dilatation associated with labor and delivery. (*Cramer et al., 2002*)