

Endometriosis: the basics

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Endometriosis

- Endometriosis is defined as the presence of endometrial-like tissue outside the uterus:
 - Ovaries and fallopian tubes
 - Peritoneum
 - The outer side of uterus and uterosacral ligaments

which induces a chronic, inflammatory reaction.

Symptoms

- Variable and unpredictable
 - asymptomatic
 - dysmenorrhoea 90%
 - chronic pelvic pain (CPP) 70%
 - deep dyspareunia 75%
 - sacral backache w/ menses
 - dysuria +/- haematuria (bladder involvement)
 - bowel involvement
 - infertility 55%

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Pathogenesis

- Retrograde menstruation (Sampson)
- Genetic predisposition
 - Haematogenous or lymphatic spread (Halban)
 - Coelomic metaplasia (Meyer/Novack)
 - Latrogenic dissemination

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Endometriosis

- 7-10% of general population
- 20-50% of infertile women
- 70-85% in women with chronic pelvic pain (CPP)
- No racial predisposition
- Familial association with almost 10x increased risk of endometriosis if affected 1st degree relative

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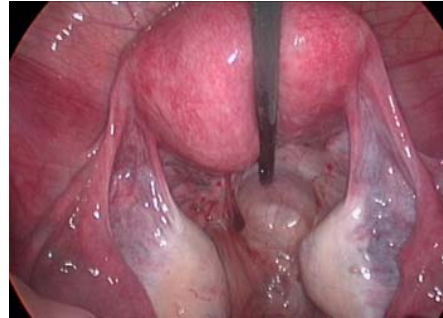
Endometriosis - a difficult diagnosis to make?

- Diagnosis can be delayed up to 7 years due to:
 - a belief that period pain is normal (often combined with the belief that it will resolve with pregnancy);
 - a belief that endometriosis is a disease of older women
 - symptoms can be confused with symptoms of irritable bowel syndrome (IBS), PID;
 - physical examination is often normal;

LAPAROSCOPY IS THE ONLY WAY TO MAKE A DEFINITIVE DIAGNOSIS

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Appearance of endometriosis



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Classification of endometriosis

- Classification of endometriosis into levels and stages such as mild, moderate & severe
- Some women have little endo but severe pain and others have many lesions but have little to no pain

Stage I, minimal



Stage II, mild



Stage III, moderate



Stage IV, severe



Diagnosing endometriosis

- **A pain diary is very useful**
 - documenting symptoms, activities and school attendance
- **Differential diagnoses**
 - symptoms arising from GI, GU, musculoskeletal systems
 - psychosocial factors
- **Physical examination**
 - abdominal exam is frequently normal;
 - pelvic exam is inappropriate if patient has never been sexually active
 - bimanual palpation can be useful

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Investigations

Laboratory studies

- pregnancy test if appropriate
- FBC, ESR – ?acute/chronic inflammatory process
- Urinalysis and urine culture can help identify a urinary tract cause of pain.
- sexually active teenager – Chlamydia screen
- CA 125 is not helpful due to the high rate of false positives.

Ultrasound

- **a negative ultrasound does not exclude the diagnosis of endometriosis**
- rule out a reproductive tract anomaly, ovarian cyst/torsion and appendicitis
- good at detecting endometriomas

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Key questions to ask - and answers suggestive of possible endometriosis

- Age at menarche - association between endometriosis and menarche <14yo.
- Age when pain developed - Primary dysmenorrhoea often starts soon after periods become regular. Pain that begins months-years after menarche is more suspicious for a pathological cause such as endometriosis.
- Cyclicality - endometriosis-related pain often starts a few days before menses and often worse day 1-2 of menstruation (may last throughout entire period)
- Location - pain often described as low pelvic/back (may be central or more on one side), radiating to inner thighs, groins, rectum.



Key questions to ask - and answers suggestive of possible endometriosis

Severity

- adolescent dysmenorrhoea is common (>75%), majority described as mild. Endometriosis-related pain often described as severe, cramping, unbearable. Symptom severity is not related to extent of disease.

Non-menstrual pelvic pain

- present in >25% adolescents with endometriosis.

Other pelvic symptoms

- common (up to 34%), may be worse with menses
- bowel (alternating bowel habit, bloating, dyschezia (rectal pain with defecation));
- bladder (dysuria, frequency, urgency);
- dyspareunia (typically deep and central).

Key questions to ask - and answers suggestive of possible endometriosis

Treatments tried

- most women will have significant symptom improvement with NSAIDs and/or hormonal therapy within 3-6 months.
- In young women whose symptoms are not controlled with medical management, laparoscopy reveals high rates of endometriosis (up to 70%). The estimated rate of endometriosis in adult women is 5-17%.

Impact of pain on QoL

- 10% of teenage girls report severe pelvic pain with a high rate of interference with school & sport

Infertility?

Family history of endometriosis

- In a first-degree relative

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Empirical treatment

Prostaglandin synthetase inhibitors (Ponstan)

NSAIDs (Ibuprofen)

- Useful for dysmenorrhoea by decreasing circulating prostaglandins and hence pain.
- NSAIDs taken on a regular basis, in adequate doses, commenced a day or 2 before the expected onset of menstruation.

Combined oral contraceptive pill (COCPs)

- Work in 2 ways:
 - the dominant progestin effect leads to atrophy of both ectopic and eutopic endometrial tissue
 - by inhibiting ovulation COCs lead to a decreased prostaglandin synthesis

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Surgical management

- Laparoscopy - gold standard for diagnosis
- Lesions can be subtle, minimal/mild.
- Surgery has been shown to reduce pain.
- The laparoscopist should be experienced in identifying lesions, and be able to treat them.
- After laparoscopic treatment of endometriosis follow-up with medical therapy has been shown to:
 - improve quality of life with pain reduction,
 - prolong time between operations and
 - potentially preserve fertility.

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Post-operative medical management

Examples

- NSAIDs, simple analgesia as required.
- Combined oral contraceptive pills (COCPs)
- Progestins
 - include oral progesterone, Implanon, Depo-provera; Mirena IUD
 - all cause atrophy of endometrial tissue
 - common side effects: breakthrough bleeding, acne, weight gain, headaches and mood fluctuations.
 - Depo-provera is associated with a decrease in bone mineral density after 2 years of continuous use

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Endometriosis: impact on mental health

- Higher rates of depression, anxiety and emotional distress in women with endometriosis than women in the general population
- “Distress”; “hopelessness”; “isolation”; “frustration”; “worthlessness”; “grief”; “loss” – common descriptors

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Screening

Key message: Assess mental health

During the last month, have you:

- often been bothered by feeling down, depressed or hopeless?
- often been bothered by having little interest or pleasure in doing things?
- been bothered by feeling excessively worried or concerned?

...yes to any, requires further exploration

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Multidisciplinary approach

- Education
 - HPs
 - self
- Medicines
 - GP
 - Gynaecologist
 - CPP clinic
- Surgery
 - Gynaecologist
 - Bowel surgeon/
 - Urologist
- Complementary therapy
 - Naturopath, herbalist
 - Acupuncturist, masseur
- Wellbeing and mood
 - Self, nutrition, exercise, meditation
 - GP
 - Counselling
 - psychologist

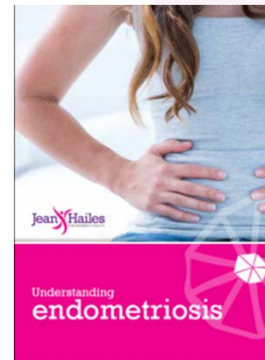
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Conclusion

- Severe period pain should make you suspicious of endometriosis
- Early diagnosis and intervention can improve quality of life
- Management options depend on age and life stage of the woman
- Increased recognition of psychological burden
- **A multi-disciplinary approach is the optimum model of care to support timely diagnosis, treatment and management of symptoms.**

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Resources



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Endometriosis Action Plan 2018

- A five year plan is designed to increase awareness and understanding of endometriosis and improve the length of time to diagnosis and treatment options.

Includes:

- Research
- Awareness raising
- Resources
- Social Media

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Resources

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endometriosisaustralia.org

endoactive.org.au

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Thank you



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