

# Empirical treatment of endometriosis

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#### Overview

- Rationale for empirical treatment
- Recommended empirical treatment options in the guideline
- Treatment options of uncertain place in empirical treatment
- Conclusions

• Empirical : based on observation and experience rather than theory or pure logic

Compact Oxford English Dictionary

• Empirical treatment : Medical treatment that is given on the basis of the doctor's observations and experience.

### Confirmed disease

- History
- Examination
- Imaging
- Laparoscopy
- Histology

### Disadvantages of laparoscopy

- (Usually) Requires general anaesthesia
- Morbidity
- Mortality
- Cost

### Why empirical treatment

- Is the diagnostic test too invasive/expensive ?
- Is it essential/beneficial to know the diagnosis ?
- Would diagnosis change the management?

#### **Empirical treatment**

- Simple
- Safe
- · Few side effects
- Effective
- Cheap

### **Patient selection**

- History
  - Dysmenorrhoea
  - Dyspareunia
  - Other pain
- Examination: No obvious signs of endometriosis
- · Investigations: Normal ultrasound, ?MRI

#### ESHRE Guideline, 2005

Empirical treatment of pain symptoms without a definitive diagnosis

GPP Engineed treatment for pain symptoms presumed to be due to endomentions without a definitive diagnosis achieve consolling adequate malgeria, instructional therapy, propertagents or the combined and concentropying (COC). It is uncident whether the COC theraid be taken conventionally, continuously or in a tarryche regimes A CuTPH appear may be taken but this class of daug is maine experime and instructed with more take-effects and concerns abent bone demity.

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- Danazol/Gestrinone
- GnRHa
- Complementary treatment

### Analgesics

- Paracetamol
- Codeine
- Nonsteroid antiinflammatory drugs (NSAIDs)

#### Paracetamol Supporting documentation 2007



- Paracetamol 500 mg qds vs placebo – Not effective
  - Not effective
- Paracetamol 1 g qds vs placebo
   Effective
- Paracetamol 1 g tds vs
  - Ibuprofen/Naproxen
  - No difference

### Codeine

No RCTs

#### **NSAIDs**

#### Marjoribanks et al 2010

- NSAIDs vs placebo 56 trials NSAIDs vs NSAIDs 14 trials NSAIDs vs Paracetamol 3 trials Outcome measures Primary
   Pain relief
   Adverse effects AdVerse energy
   Secondary
   Requirement for additional medication
   Interference with daily activities
   Absence from work/school





#### **NSAIDs** Marjoribanks et al 2010

#### Pooled data:NSAIDs vs placebo

- NSAIDs more effective in pain relief
- NSAIDs cause more side effects (GI and neurological)
- NSAIDs group less likely to require additional medication
- NSAIDs group less interference with daily activities
- NSAIDs group less absenteeism



#### **NSAIDs**

#### Marjoribanks et al 2010

#### NSAIDs vs NSAIDs

- Diclofenac more effective than Meloxicam
- Fenoprofen more effective than Aspirin
- Naproxen more effective than Ketoprofen and Ibuprofen Indomethacin more effective than Aspirin
- No differences

  - Ibuprófen vs Nimesulide/Prixicam/ Lysine clonixinate
    Mefenamic acid vs Meloxicam/Tolfenamic acid
    Naproxen vs Diclofenac/Etoricoxil/Piroxicam/Flurbiprofen
- No differences in side effect profiles/secondary outcome measures



- NSAIDs vs Paracetamol
  - NSAIDs more effective than Paracetamol

**NSAIDs** Marjoribanks et al 2010

- No difference in side effect profile
- No data on secondary outcome measures

### Hormonal contraceptives

- Combined oral contraceptive pill (COC)
- Progestogen only (mini) pill
- Depo Provera
- Mirena IUS

#### COC

Supporting documentation 2007

- Long term safety
- · Ability to use indefinitely
- Tricyclical or continuous use to avoid periods



#### COCS Wong et al 2009

Studies included 10

- COC vs placebo 6 trials
- COC with different progestogens 2 trials
- COC with different doses of Oestrogen 2 trials



Wong et al 2009									
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#### Progestogen only contraceptives Mirena IUS/Depo Provera/POP

- Mirena effective in confirmed diagnosis
- Long term safety
- No RCTs in primary dysmenorrhoea
- Likely to be an acceptable option

#### Second line treatment options

- Progestogens
- GnRHa
- Danazol/Gestrinone
- Side effects
- Safety
- Cost

## Second Line Hormones



#### **Conclusions of Consensus Statement**

- CPP frequently occurs secondary to nongynaecologic conditions
- For women in whom endometriosis is suspected, laparoscopic confirmation is unnecessary
- Trial of medical therapy including danazol, GnRHa and progestins is justified









# Complementary therapy Proctor & Murphy 2009, Proctor et al 2009, Proctor et al 2010, Zhu et al 2010

- Treatment modalities shown to be effective

   Vitamin B1

  Treatment modalities which may be helpful

   Behavioural interventions
   Magnesium
   Fish oil
   High frequency TENS
   Topical heat
   Treatment modalities of unknown benefit
   Vitamin B12
   Acupuncture

  Treatment modality of no benefit

   Vitamin E
   Spinal manipulation



### Counselling



- When
  - Before
  - During
  - After diagnosis/treatment
- Who
  - PhysicianProfessional counsellor/psychologist
- Principles
  - Balanced view of diagnostics, treatment options, their efficacy, side effects and risk of recurrence

#### Conclusions

- Empirical treatment for pain acceptable
- Empirical options include analgesics and COCs
- Place of progestogens, danazol, gestrinone, GnRHa debatable
- There is a need for RCTs comparing the place of empirical treatment against laparoscopy