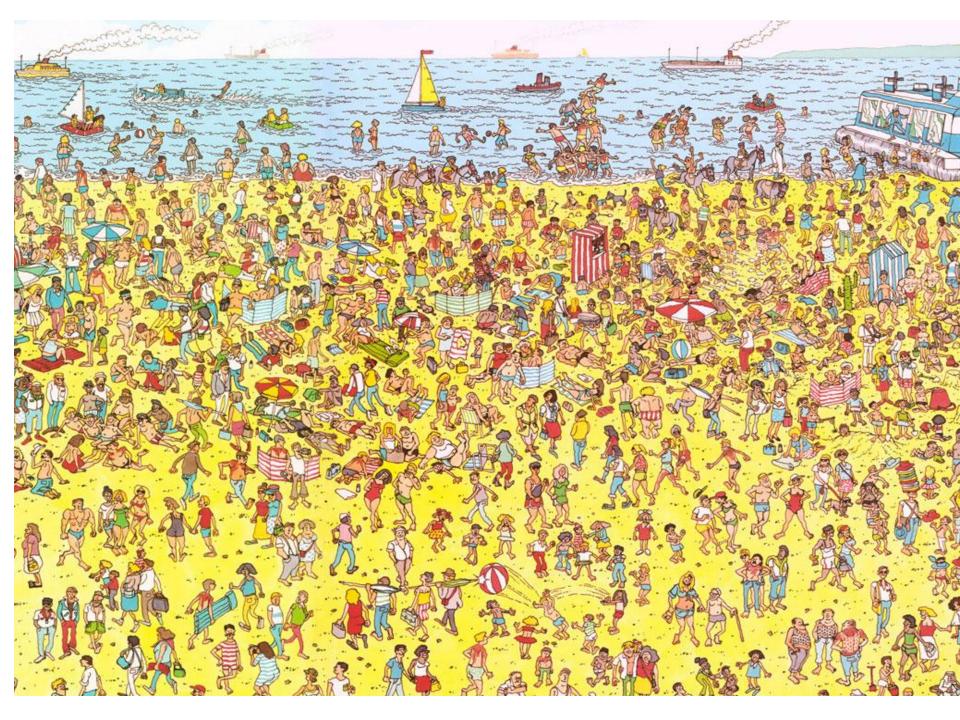
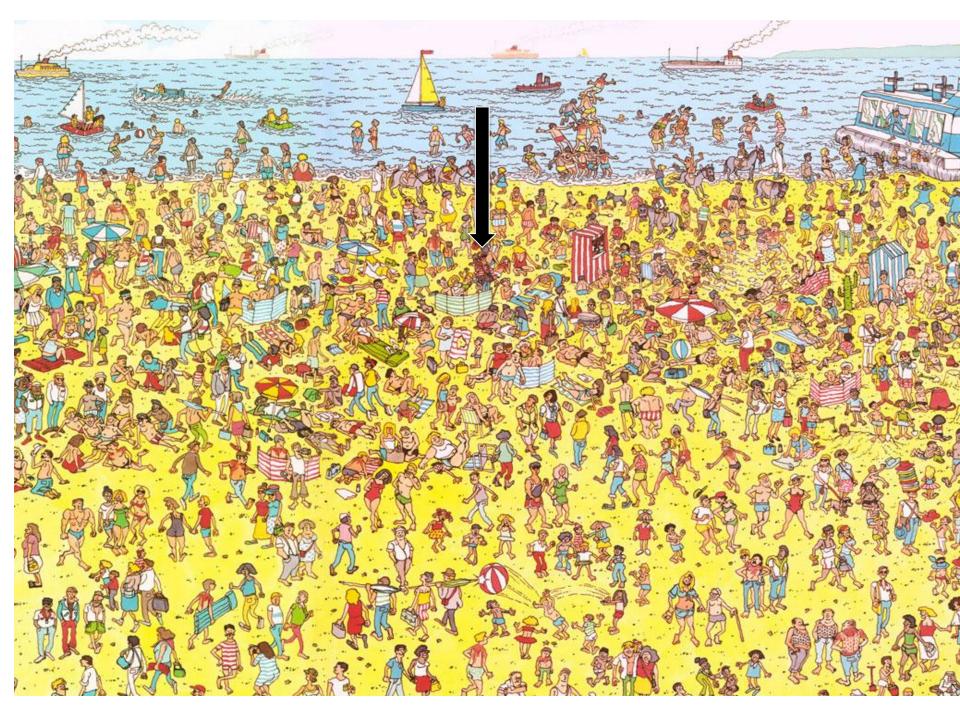


# Gynaecological causes of Acute Abdomen

Carlos Pilasi Menichetti MD MSc General surgeon/Trauma Gynecologist& Obstetrician





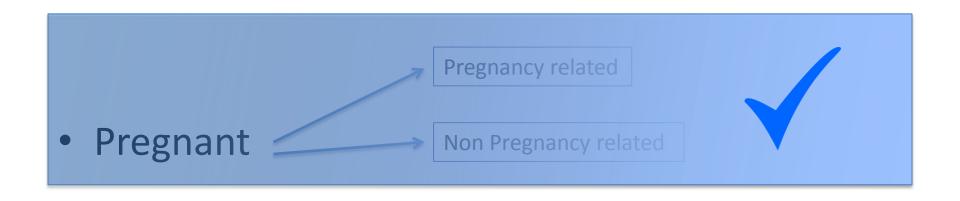
### **APPROACH**

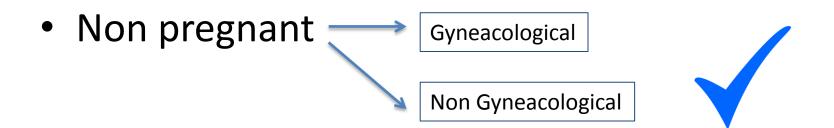
Pregnancy related
 Non Pregnancy related

• Non pregnant Gyneacological

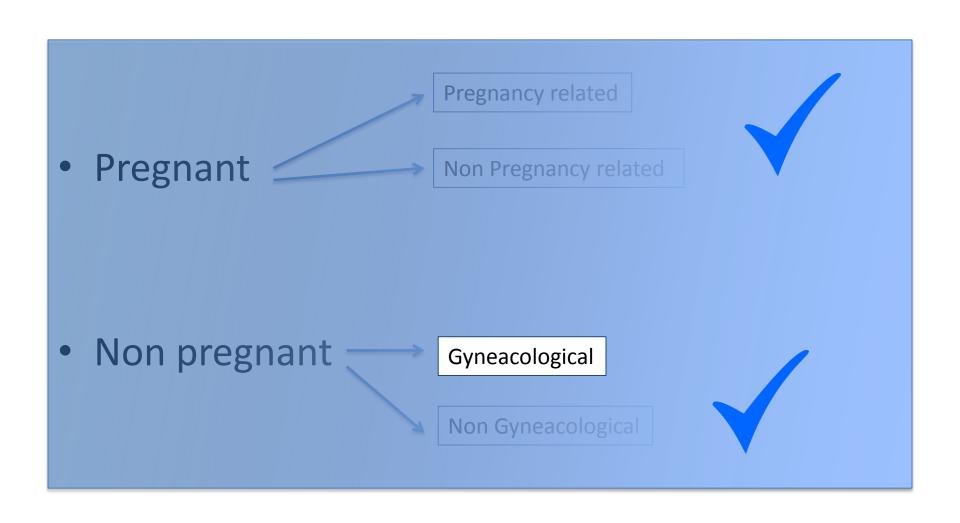
Non Gyneacological

### **APPROACH**





## **APPROACH**



# Gynecological causes

#### Infectious:

Pelvic inflammatory disease

TOA

**Salpingitis** 

**Endometritis** 

#### Adnexal:

**Torsion** 

Rupture of ovarian cyst

Rupture of folicle

Bleeding follicule

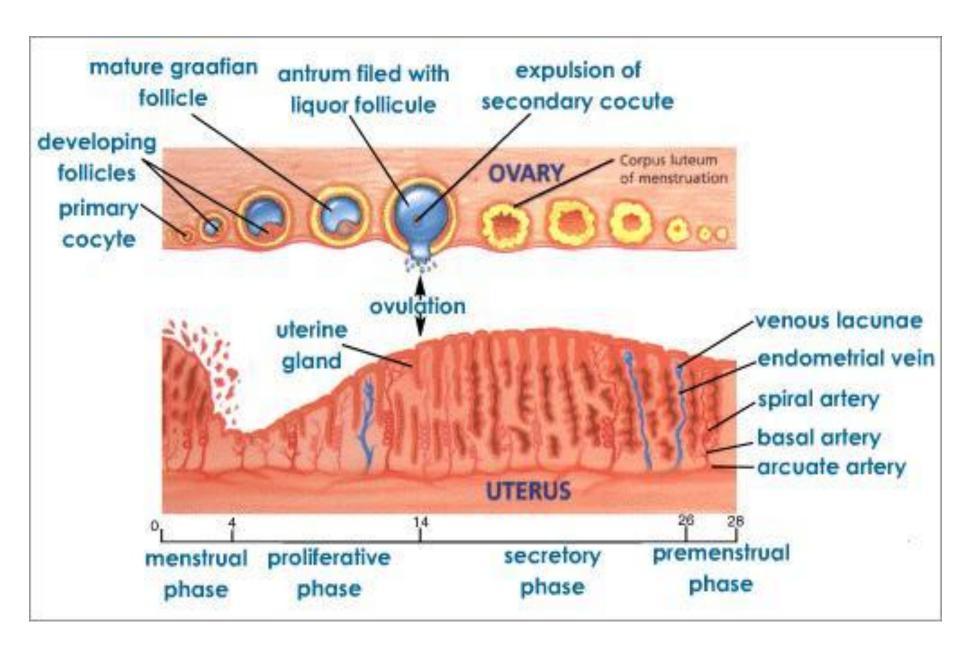
#### **Uterine:**

Dysmenorrhea

**Endometriosis** 

**Fibroids** 

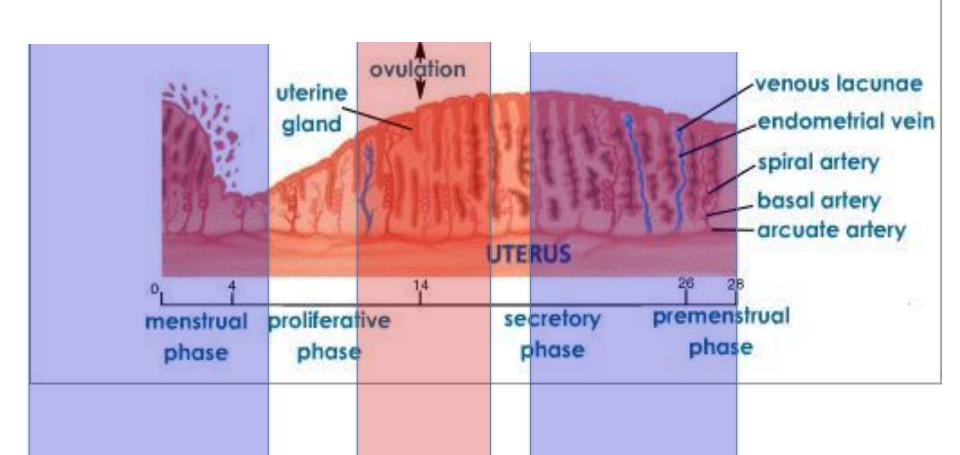
### **Endometriosis:**



MENSTRUATION RELATED

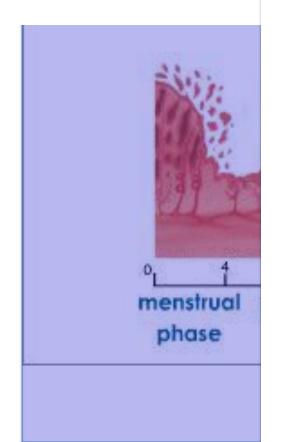
OVULATION RELATED

No Ovulation No Menstruation RELATED



# MENSTRUATION RELATED

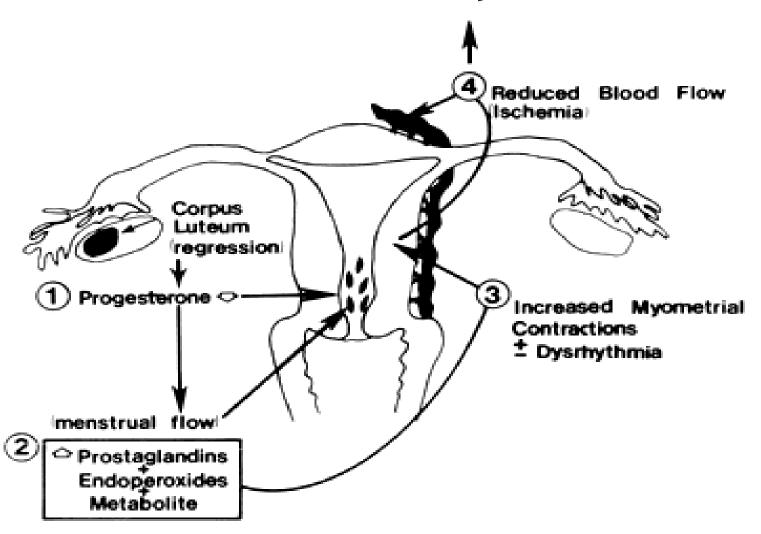
- 1. Dysmenorrhea
- 1. Endometriosis



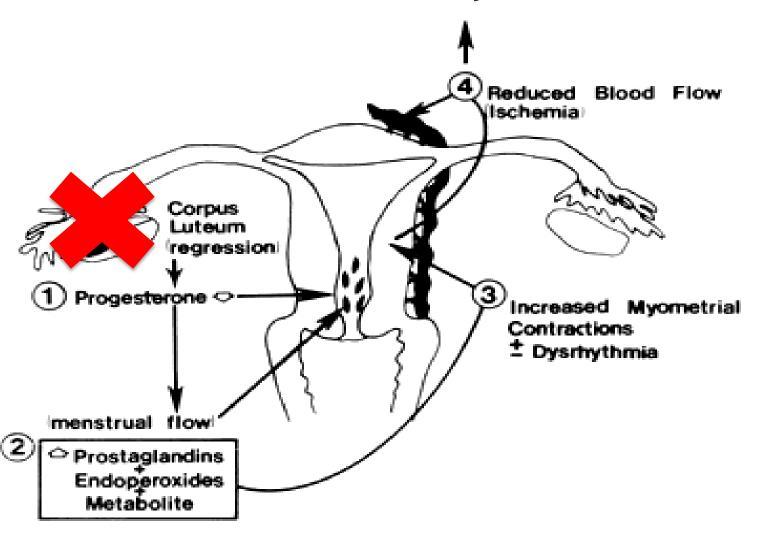
# Dysmenorrhea

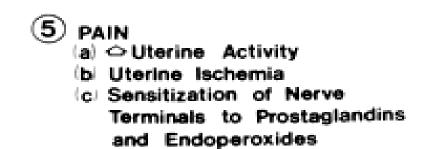
- Definition
- Classification
- Prevalence:

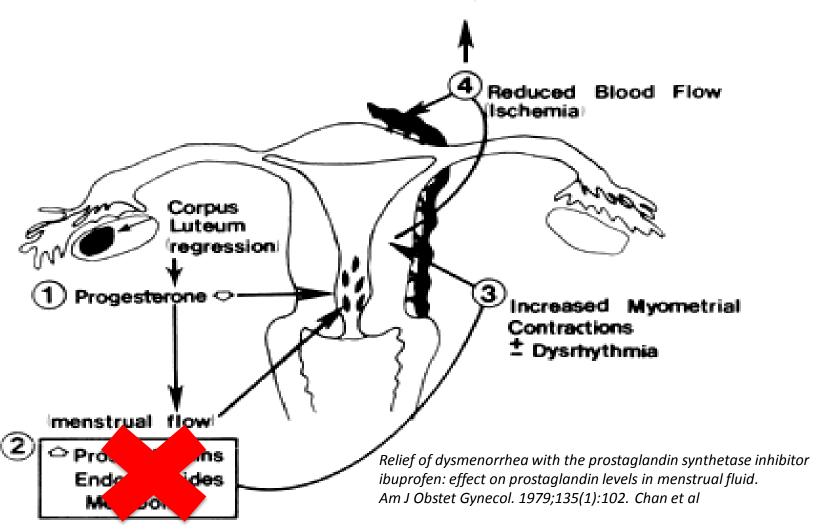
- (5) PAIN
  - a) Uterine Activity
  - b Uterine ischemia
  - C Sensitization of Nerve Terminals to Prostaglandins and Endoperoxides



- (5) PAIN
  - (a) ☐ Uterine Activity
  - b Uterine ischemia
  - C Sensitization of Nerve Terminals to Prostaglandins and Endoperoxides







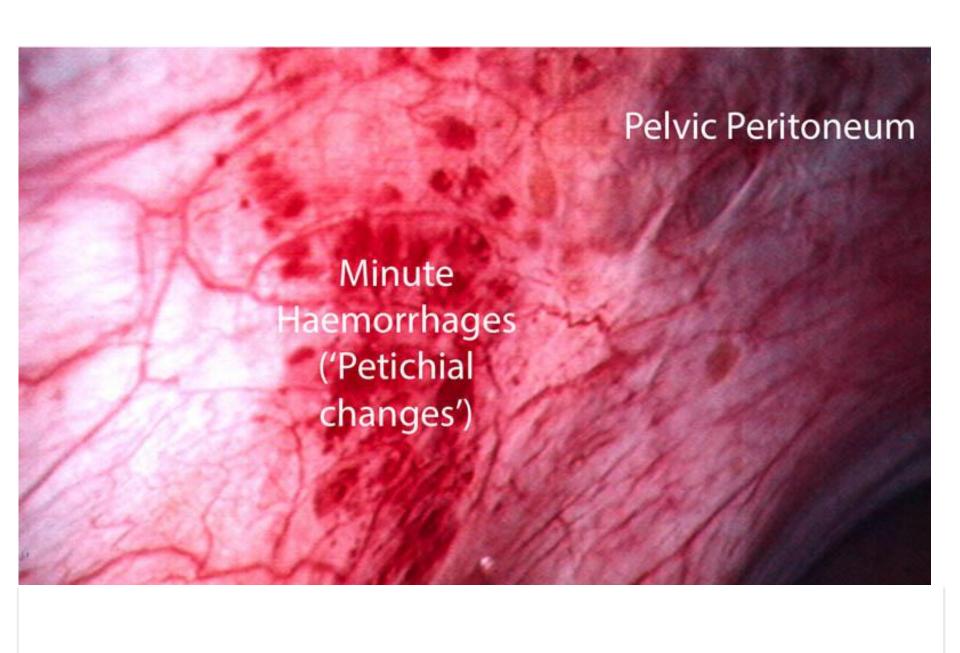
### It should not have:

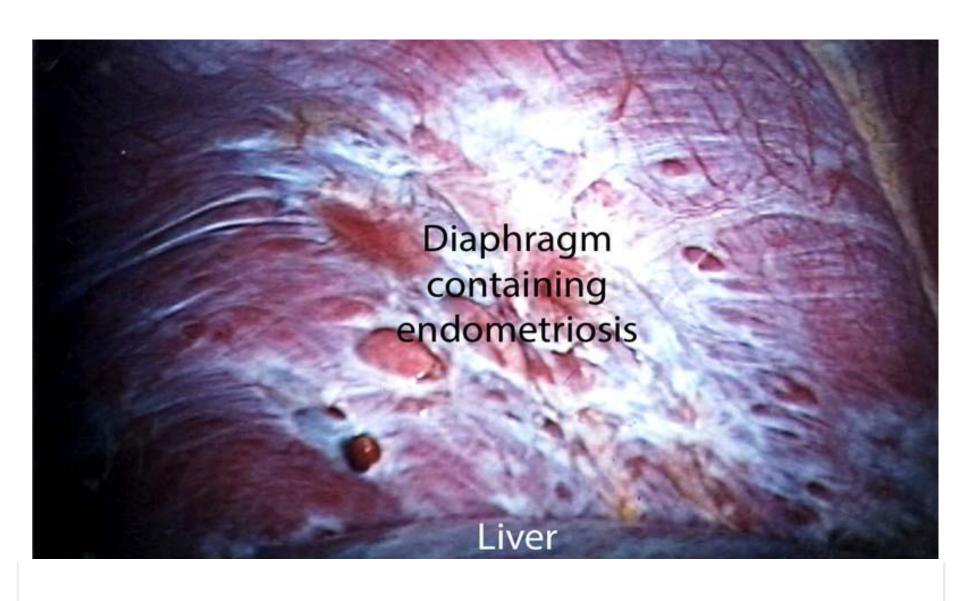
- Onset of dysmenorrhea after age 25.
- Abnormal uterine bleeding (eg, menorrhagia, oligomenorrhea, intermenstrual bleeding)
- Nonmidline pelvic pain
- Presence of dyspareunia or dyschezia
- Progression in symptom severity

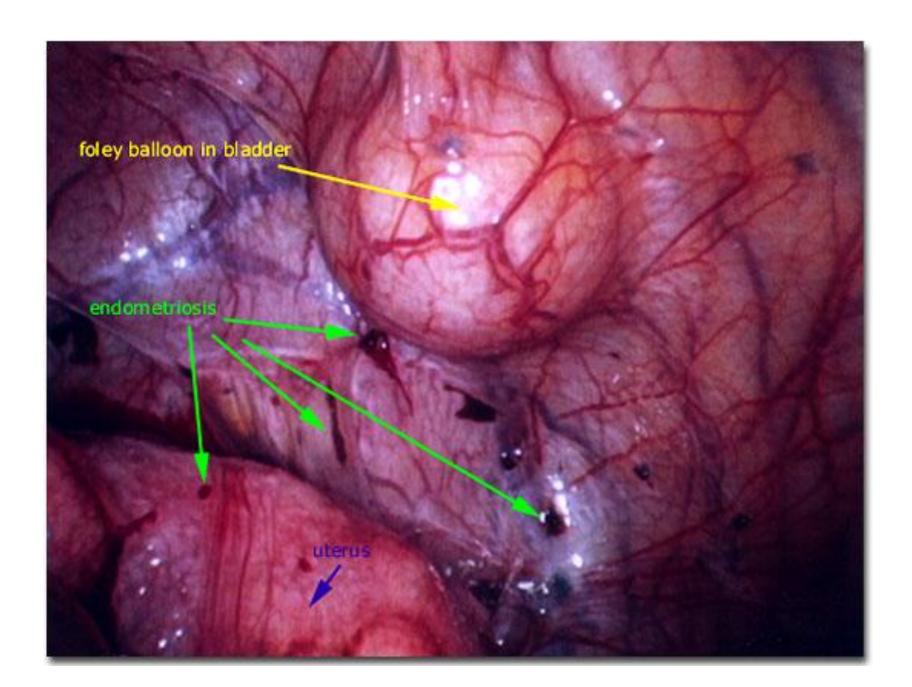
SECONDARY DYSMENORRHEA

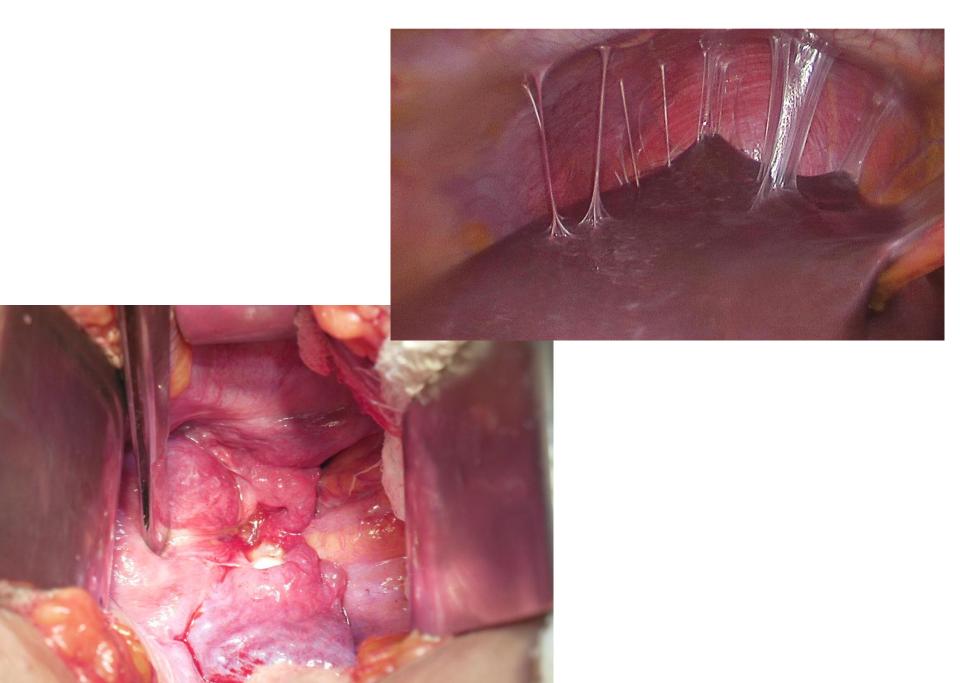
## **Endometriosis**

- Def:
- Clinical
  - may have premenstrual spotting
  - dyspareunia, dyschezia
  - poor relief of symptoms with NSAIDs
  - progressively worsening symptoms, and inability to attend work or school during menses
- Diag:
  - LPC
  - US: endometriomas, RVSeptum

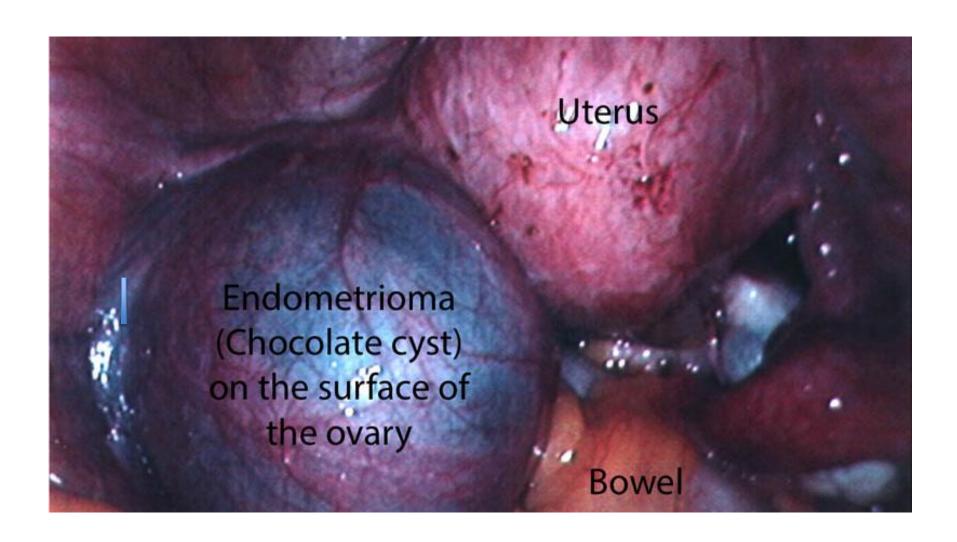








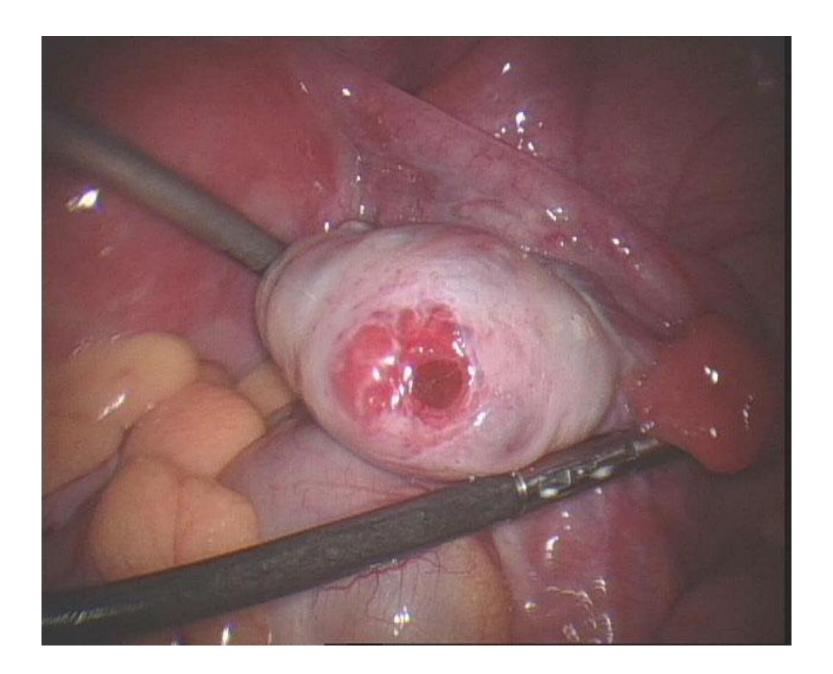
## Pain and mass



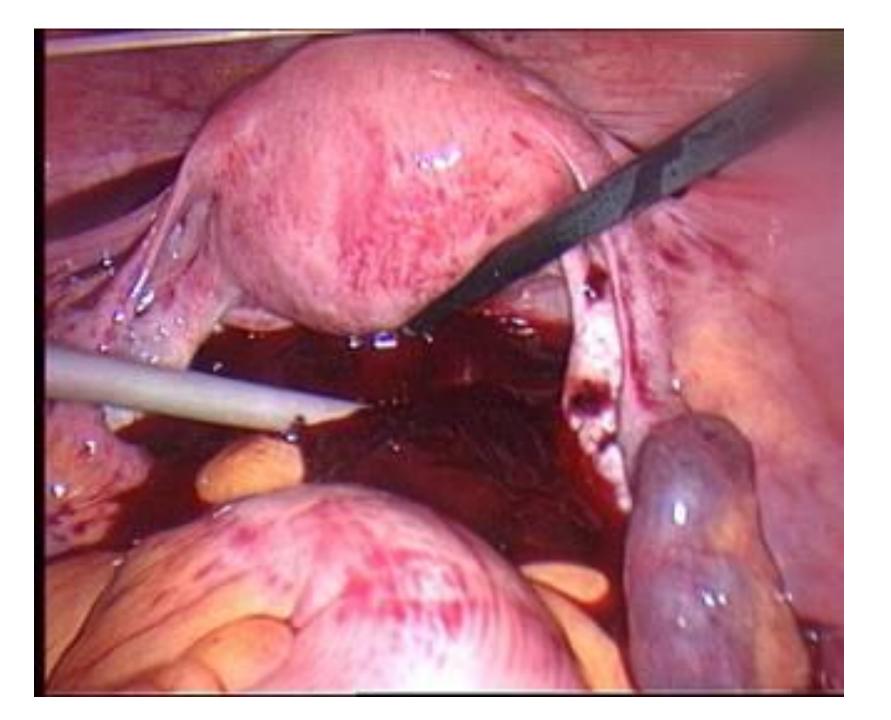
# OVULATION RELATED

ovulation e d 14 rative

- Mittelschmerz
   Painful ovulation
- 2. Bleeding folicule

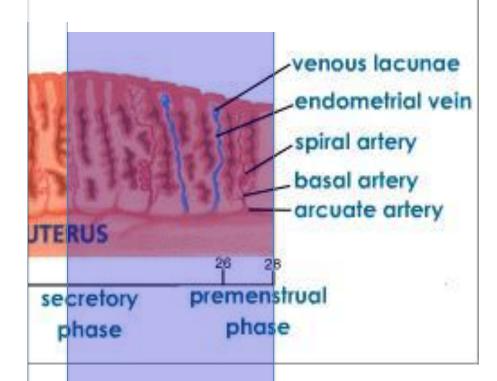






- 1. RUPTURED CYST
- Ovarian adnexal mass
- 3. PID

No Ovulation No Menstruation RELATED



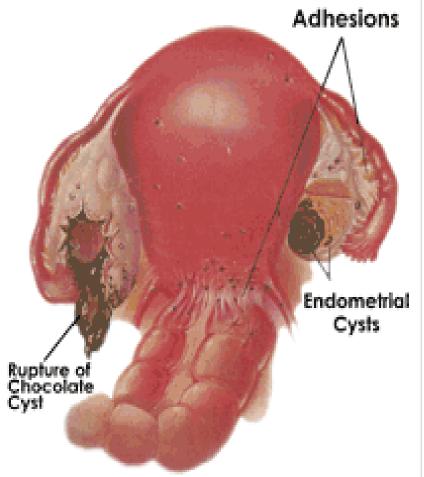
# Ruptured ovarian cyst

- sudden onset of unilateral lower abdominal pain.
- begins during strenuous physical activity (exercise/intercourse)
- may be accompanied by light vaginal bleeding

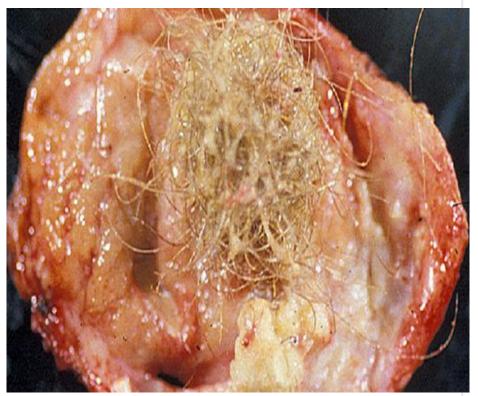
### WHY IS IT PAINFUL:

- Where:
  - Pain from stretching of the ovarian cortex,
  - Haemoperitoneum
- Content:
  - Blood
  - Serous or mucinous fluid not very irritating
  - sebaceous material (dermoid) chemical peritonitis

## OVARIAN CYSTS



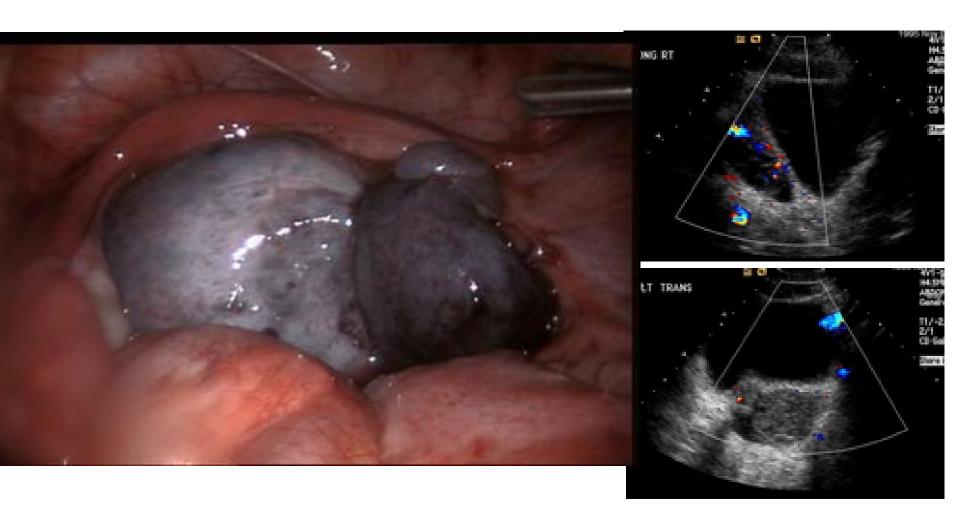




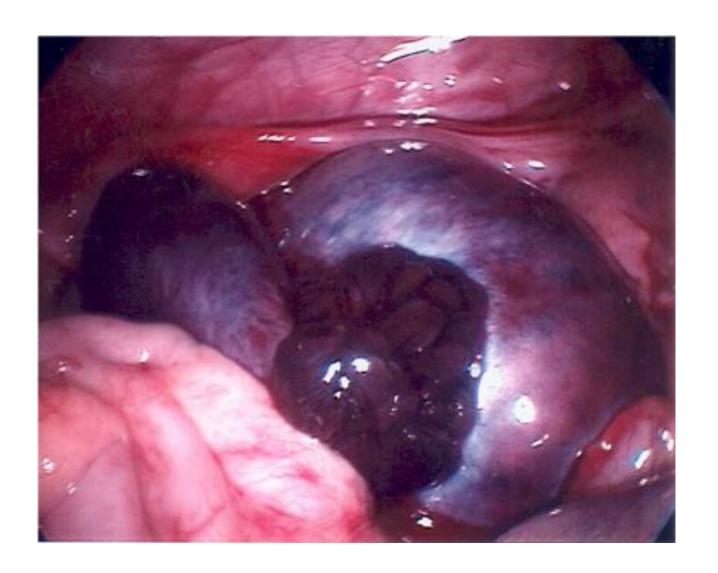
### Adnexal torsion

 Acute onset of moderate to severe pelvic pain, often with nausea /vomiting:

- Pelvic pain (90 percent)
- Adnexal mass (86 to 95 percent)
- Nausea and vomiting (47 to 70 percent)
- Fever (2 to 20 percent)
- Abnormal genital tract bleeding (4 percent)







### **CONCLUSIONS:**

- In the management of Premenarchal girls with adnexal torsion, detorsion and adnexal conservation surgery should be considered in cases with adnexa appearing to be ischemic or hemorrhagic infarction.
- Detorsion with adnexal sparing is the treatment of choice for twisted ischaemic adnexa, and preferably performed by laparoscopy.

Minimal surgery for the twisted ischaemic adnexa can preserve ovarian function. Oelsner G et alHum Reprod. 2003;18(12):2599.

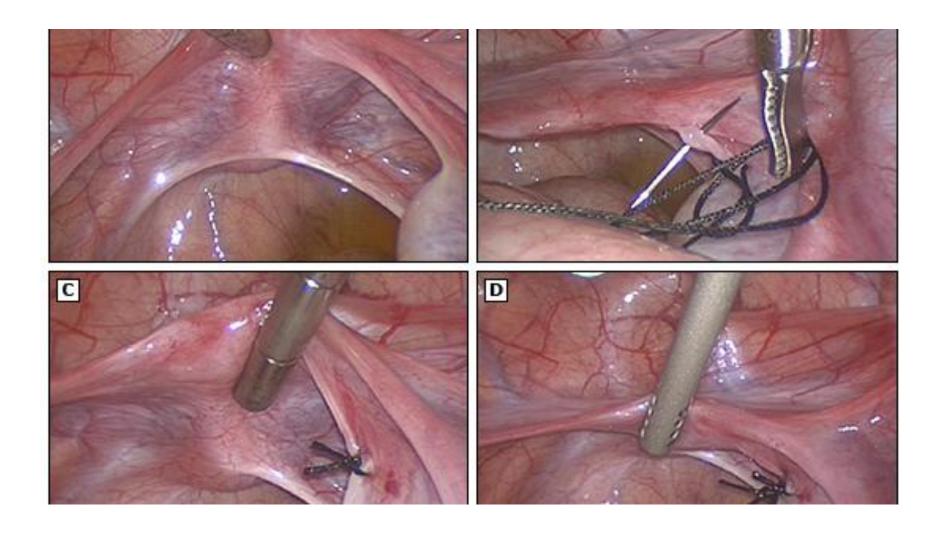
Predominant etiology of adnexal torsion and ovarian outcome after detorsion in premenarchal girls. Wang et al. Eur J Pediatr Surg. 2010 Sep;20(5):298-301.

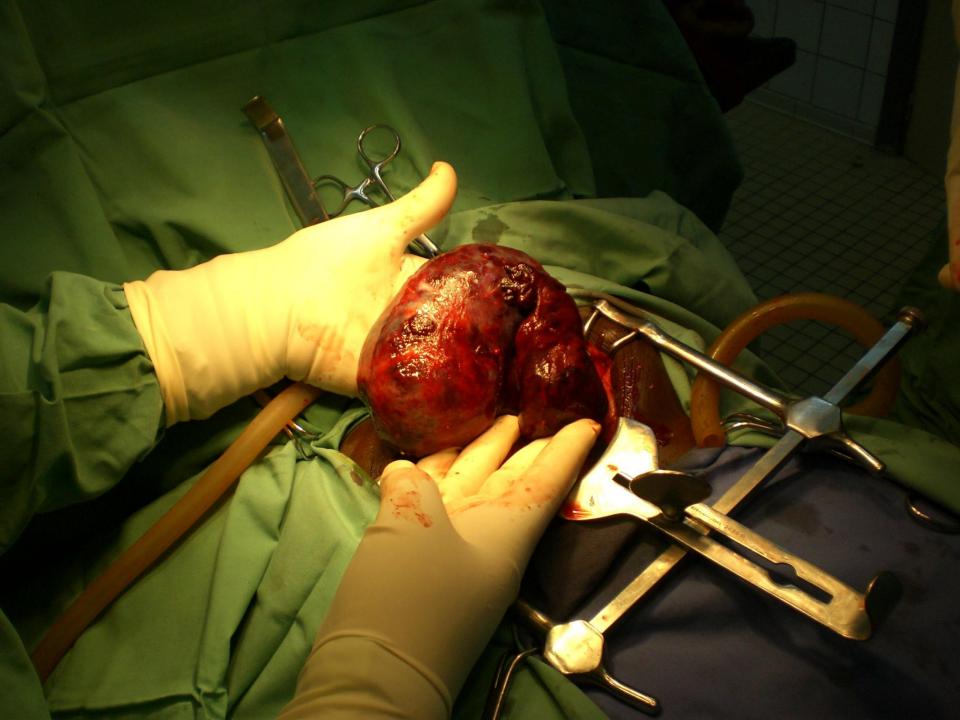






## Prevention of recurrence





### PID

- PID represents a spectrum of clinical disease, from endometritis to fatal intraabdominal sepsis.
- <u>Clinical criteria</u> (CDC) for empirical treatment of PID:
  - cervical motion tenderness or uterine or adnexal tenderness in the presence of
  - lower abdominal or pelvic pain.
- Additional criteria:
  - Oral temperature >101° F (>38.3°C)
  - Abnormal cervical or vaginal mucopurulent discharge
  - Presence of abundant numbers of white blood cells (WBCs) on saline microscopy of vaginal secretions
  - Elevated erythrocyte sedimentation rate
  - Elevated C-reactive protein
- There are multiple gold standards
- Older studies defining PID by a single standard, such as laparoscopic visualization of gross salpingitis, are now felt to lack sensitivity

# CDC definitive diagnosis

- One or more of the following three findings are required:
- 1. Histologic evidence of endometritis in a biopsy
- An imaging technique revealing thickened fluidfilled tubes/oviducts with or without free pelvic fluid or tuboovarian complex
- 3. Laparoscopic abnormalities consistent with PID (eg, tubal erythema, edema, adhesions; purulent exudate or cul-de-sac fluid; abnormal fimbriae)

### **Treatment**

### Admission:

- Pregnancy
- Lack of response or tolerance to oral medications
- Nonadherence/intolerance to therapy
- Severe clinical illness (high fever, nausea, vomiting, severe abdominal pain)
- Complicated PID with pelvic abscess (including tuboovarian abscess)
- Possible need for surgical intervention or diagnostic exploration for alternative etiology (eg, appendicitis)

## Summary

- Relate the pain with cycle phase
  - Menstruation
  - Ovulation
- Other Gynecological specific conditions
  - Adnexal pathology: torsion, ruptured cysts, PID
- Involve Gynaecologist for Intraop diagnosis
- Try to keep ovaries in premenopausal patients