

Adolescent Gynecology

A Case-Based Approach

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Disclosures

- I wrote a chapter in this book, not being discussed today.
- No financial benefits/associations

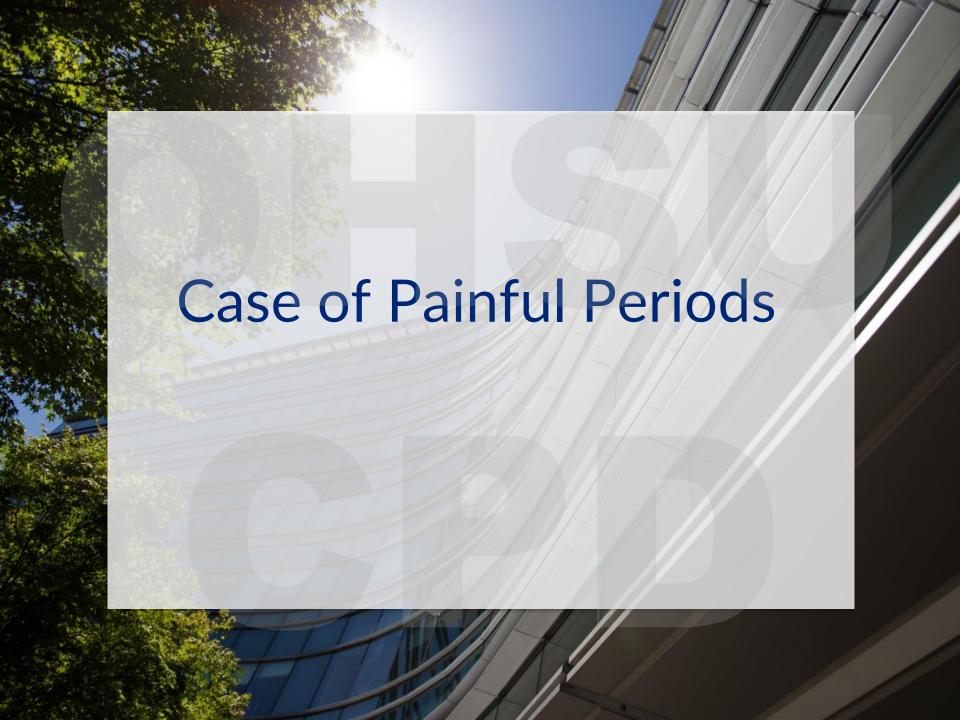




Objectives:

- 1. Discuss indications for the pelvic exam
- 2. Approach a dysmenorrhea differential
- 3. Explore menstrual irregularity interventions





16-year-old with abdominal & pelvic pain

- Pain used to start a day or two before menses and lasted through day 3 of bleeding
- For the last 3 months is having daily pain, but worst right before period



16 y abdominal & pelvic pain

- Menses: last 5 days, occur every 28-30 days
 - Heavy flow, changes pads 4-5x /day, no soak
- Other GU: +constipation, +pain with BM. No urinary symptoms
- Sexual hx: G0P0
 - 1 lifetime male partner, current



- Never had STI testing
- +pain with sex
- Impact: missed multiple school days/year; quit soccer team missed too many practices





What's going on?

Abdominal/pelvic pain

- Chronic Constipation
- Dysmenorrhea
- Pelvic Inflammatory Disease
- Endometriosis
- Behavioral Health component? *





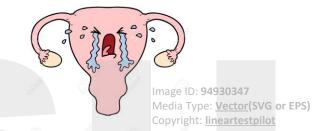
What's going on?

Abdominal/pelvic pain

- Chronic Constipation
- Primary Dysmenorrhea
- Pelvic Inflammatory Disease
- Endometriosis
- Behavioral Health component? *







- Common, usually primary etiology
- Nausea, vomiting, diarrhea, headaches, fatigue, dizziness, syncope
- Studies note higher prostaglandin levels and/or prostaglandin receptors
 - NSAIDs therefore first line
- Hormonal treatments: ovulation suppression & endometrial hypoplasia
- Timing of onset? *



Secondary Dysmenorrhea

- Pelvic pathology to pain
- When trials of NSAIDs and Hormonal interventions (usually pills) fail
- Highest rare concerns: abdominal mass or genital outflow obstructive anomaly



Exam for Dysmenorrhea*

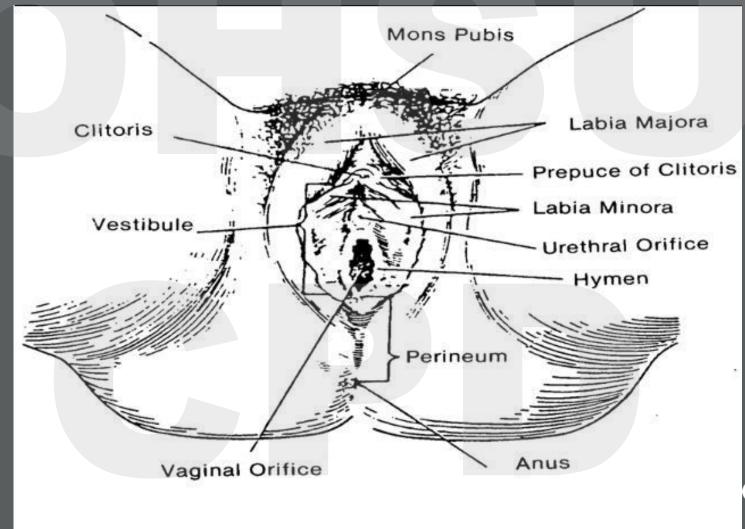
searching for secondary etiology

- Abdominal Exam
- Pelvic exam*
- Urine & STI evaluations

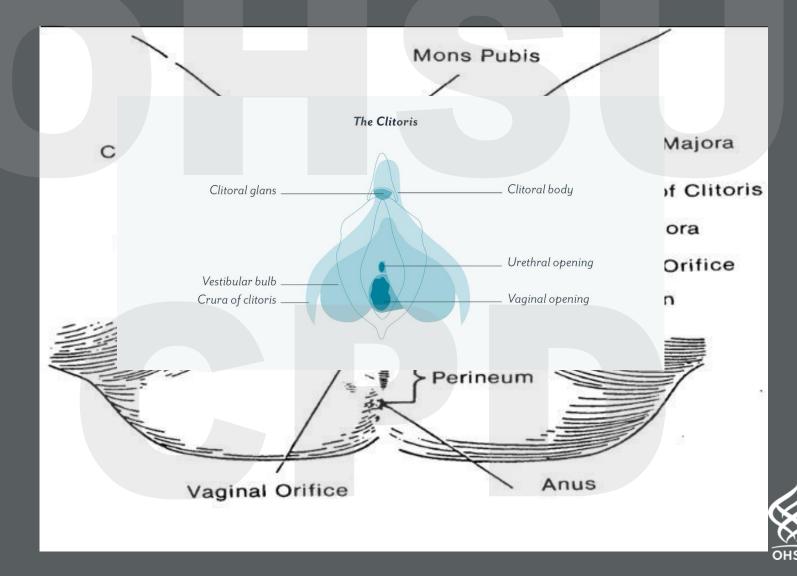
If concerned for genital tract obstruction ==>MRI pelvis



External Genital Exam

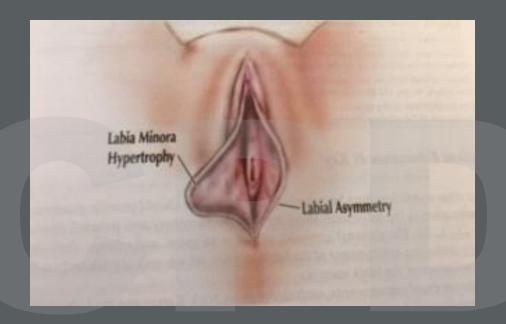


External Genital Exam



Normal

- Labia minora hypertrophy
- Labial asymmetry





Pelvic Exam - speculum/bimanual

Bimanual exam

- When:
 - Pre pap smear
 - Pre IUD insertion
 - To check placement of current IUD
 - If concerned for PID or mass
 - Foreign body
- What: gloves/lube
 - 3 components
 - Cervical motion
 - Uterine compression
 - Ovarian palpation (bilaterally)

Speculum exam

- When:
 - Pap smear
 - IUD procedure/check placement
 - Concern for cervical pathology
 - Foreign body
- What: gloves/lube/speculum/light
 - Determine strawberry cervix from normal ectropion *
 - Vaginal rugae
 - Discharge assessment



The Cervix Normal:

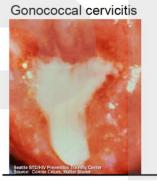








Abnormal:





Why are we suspicious of PID?

Dyspareunia = pain with sex

If bimanual exam +, would treat!

- Why? Because of fertility loss risk if we don't
- What? Triple Therapy

Recommended Intramuscular or Oral Regimens for Pelvic Inflammatory Disease

Ceftriaxone 500 mg IM in a single dose*

PLUS

Doxycycline 100 mg orally 2 times/day for 14 days

CDC 24/7

Centers for Disease Control and Prevention
CDC 24/7: Saving Lives, Protecting People™

WITH

Metronidazole 500 mg orally 2 times/day for 14 days

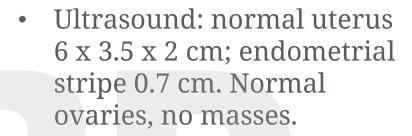


Testing/Results

STI testing

- GC/CT neg
- BV, trich, yeast neg
- Mycoplasma neg

Imaging?*





Not feeling much better after PID treatment...

- Diagnosis?
- More studies?
- Referral?
- Treatments?



Endometriosis likely?

- Presence of endometrial tissue outside of uterus
- Chronic cyclic and acyclic pain, progressive
 - Acyclic pain (36-91%)
 - Dyspareunia (14-25%)
 - GI complaints (2-46%)
- Interference of pain with daily activities
- Chronic pelvic pain **RESISTANT to NSAIDS & CHC treatment**
 - Early studies done in adults, 70% endometriosis lesions
 - 62% of adolescents with resistance to treatment had endometriosis lesions
- Significant family history of endometriosis



Endometriosis likely

- Diagnosed by laparoscopy
 - Can remove some of lesions in OR



- Red/clear/white lesions
- No cure
- Treatment goals: minimize future sloughing & development of more lesions

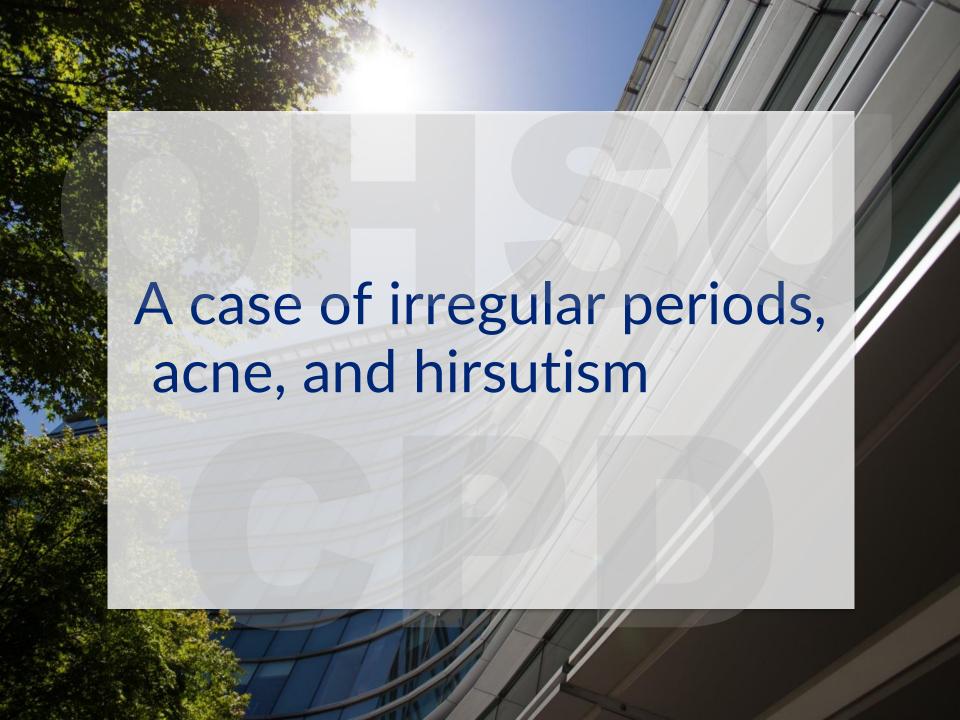




Endometriosis treatments

- NSAIDS + continuous CHC pills
- >18 yrs of age GnRH agonist considered prior to surgery. (+add back therapy = Aygestin, + Vit D + Ca)
- Progestin-only therapies* improve symptoms
- Surgery improves symptoms
- No cure
- Treatment goals: minimize future sloughing & development of more lesions & preserve fertility





17-year-old, premature adrenarche history and obesity presents with oligomenorrhea*

Menarche 11

Adrenarche 7

Thelarche 9

BMI 97th percentile, generalized obesity

Open and closed comedones face + chest + back

Acanthosis nigricans of posterior neck & axillae + skin tags

Stubble noted of sideburns and chin. Coarse hair of abdomen midline. Coarse hair on arms

SMR 5 breasts and pubic hair

Normal estrogenized external female genitalia without clitoromegaly



What are we worried about?

- Adrenal tumor
- Polycystic ovarian syndrome
- Maybe prolactinoma
- Maybe thyroid disorder



Lab results

TSH 2.2 (normal)

Free T4 (high-normal)

17-OHProesterone 105 ng/dL (normal)

DHEA-S 206 microgram/dL (normal)

Androstenedione 1.8 ng/dL (normal)

Prolactin 14 ng/dL (normal)

Total Testosterone 64 ng/dL (elevated)

Free testosterone 11.2 pg/mL (elevated)

HgB A1C 6.1%

Cortisol normal

What does she have?



PCOS work up

- Not <2* years of menarche
- Rule out other causes *
- Diagnosis: *
 - 1. Irregular menses
 - 2. Clinical or Laboratory Hyperandrogenism
- Screen for related metabolic syndromes*



PCOS menstrual irregularities

Oligomenorrhea

Menstrual frequency < every 3 months

> 45 days between periods

Polymenorrhea

Menstrual frequency under 20 days. (<20 days between periods)

Abnormal Uterine Bleeding

>90 days of consecutive menses

Primary Amenorrhea

- No menses by 15
- No menses 2-3 years post thelarche



Family questions:

- How should periods be managed?
- Can acne and unwanted hair growth be addressed?
- How will this affect my fertility?



Treatment

- Control hyperandrogenism effects
 - Hirsutism
 - Androgen blockers
 - Spironolactone
 - Finasteride
 - Topical eflornithine
 - Hair removal
 - Alopecia
 - Acne
 - Hormonal contraception
 - Insulin resistance treatment
 - Lifestyle mods
 - Metformin**

- Restoring menstrual function
 - Fertility
 - Uterine health (quarterly menses)

Hormonal birth control

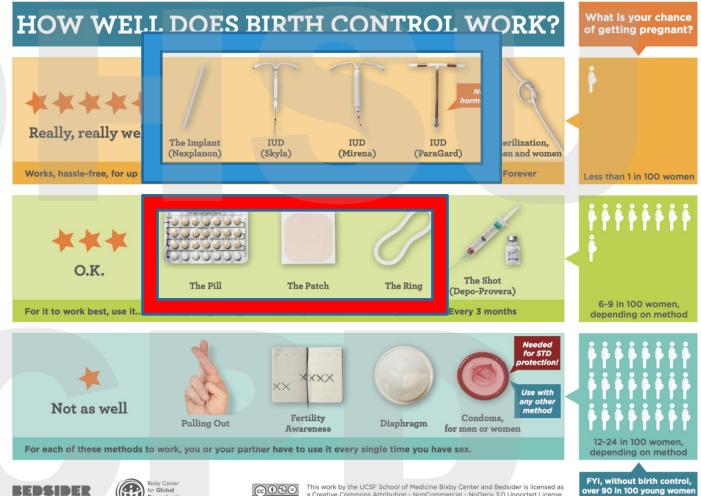




Contraceptive

LARC - Long Acting **Reversible Contraceptives**

SARC – Short Acting Reversible Contraceptives



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get pregnant in a year.

Reasonably Certain Not Pregnant

Urine pregnancy No unprotected sex in last 2 weeks test negative Reasonably certain not pregnant Never sexually Already on reliable active or no sex BC method since LMP

Emergency Contraception

 If non-LARC provide Rx for EC & condoms

Emergency Contraception





Factors that will affect the efficacy of the emergency contraception (EC) pill:

- · LMP
- Timing of last instance of unprotected sex
- BMI



For Ella – if taking progesterone birth control*



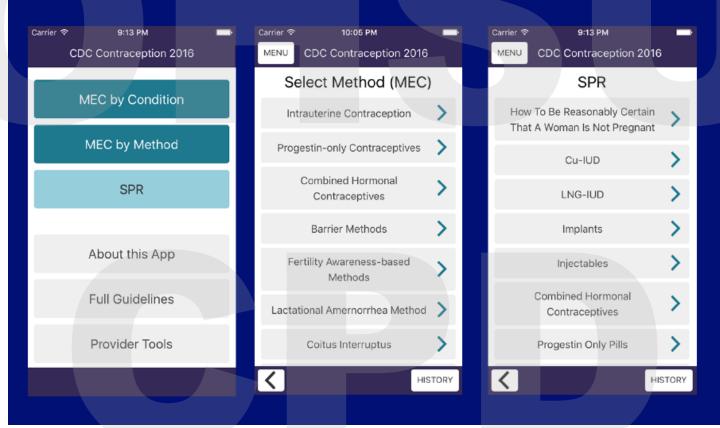
Medical & Family Histories

U.S. MEC: Categories

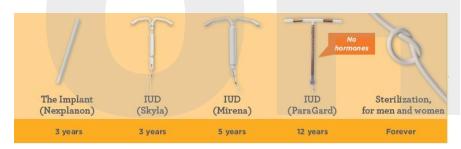
- No restriction for the use of the contraceptive method for a woman with that condition
- Advantages of using the method generally outweigh the theoretical or proven risks
- Theoretical or proven risks of the method usually outweigh the advantages not usually recommended unless more appropriate methods are not available or acceptable
- Unacceptable health risk if the contraceptive method is used by a woman with that condition

2016 U.S. MEC and SPR App





Patient priorities and concerns

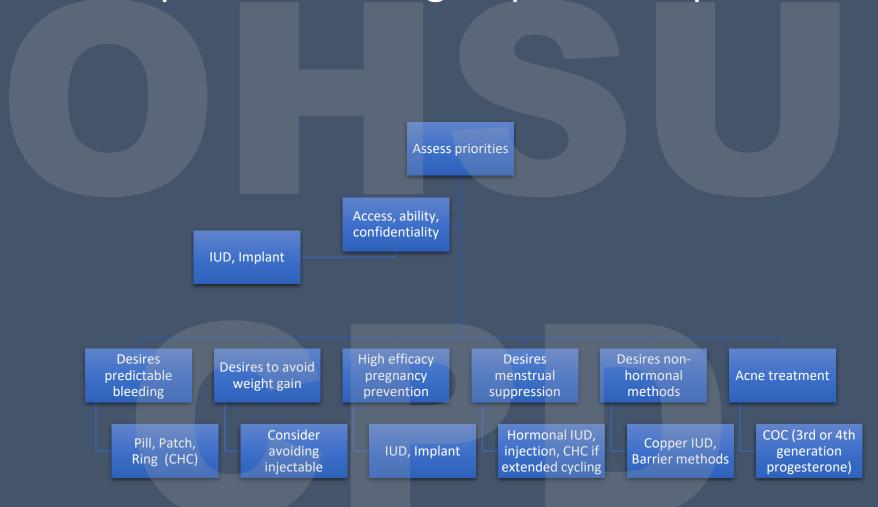






Priorities for taking birth control
☐ Pregnancy Prevention
☐ Menstrual suppression
☐ Acne treatment
Concerns about taking birth control
☐ Lowest hormones possible
☐ Weight gain concerns
☐ Mood concerns
☐ Medication interaction concerns

Contraceptive Counseling Steps: Assess priorities



Decision-making and Educational Tools









https://stayteen.org/videos



- https://powertodecide.org/sexual-health/your-sexual-health/find-your-method
- For ordering on-hand office materials: https://shop.powertodecide.org/educational-materials/posters.html
- Comprehensive Client-Center Contraceptive Counseling Resource Guide by Oregon Health Authority:

https://www.oregon.gov/oha/PH/HealthyPeopleFamilies/ReproductiveSexualHealth/Documents/edmat/Client-CenterCounselingModelsandResources.pdf

Tia: Women's Health Advisor Cycle, mood & wellness tracker <u>Tia, Inc.</u>





Thank You

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