Common Gynecologic Conditions in Adolescent Girls

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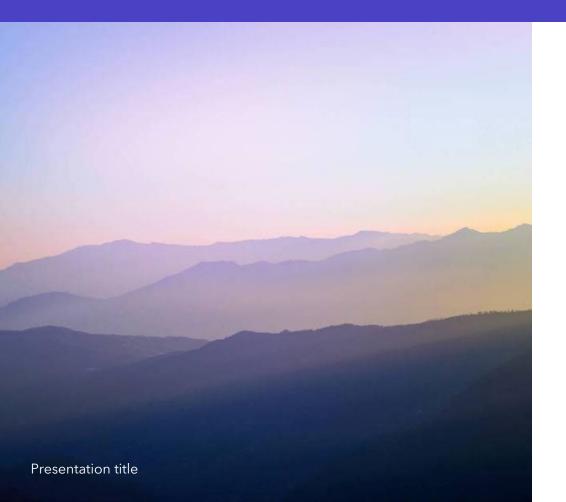




Objectives

- Be able to identify common gynecologic conditions in adolescent girls
- Be able to evaluate common gynecologic conditions in adolescent girls
- Be able to treat and manage common gynecologic conditions in adolescent girls

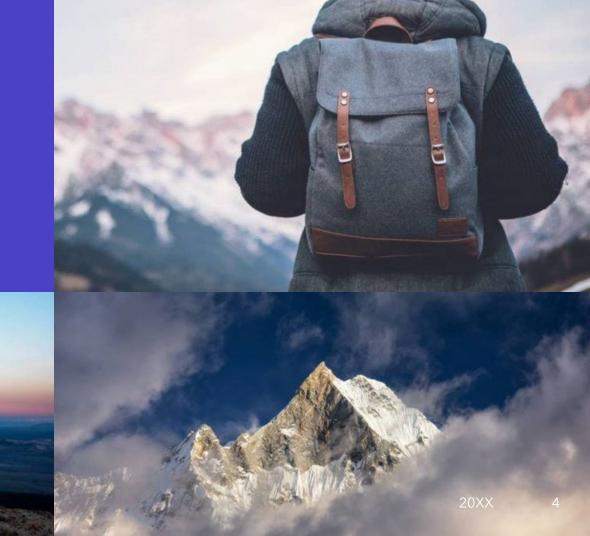
Introduction



Adolescent: a young person who has begun puberty but has not yet become an adult

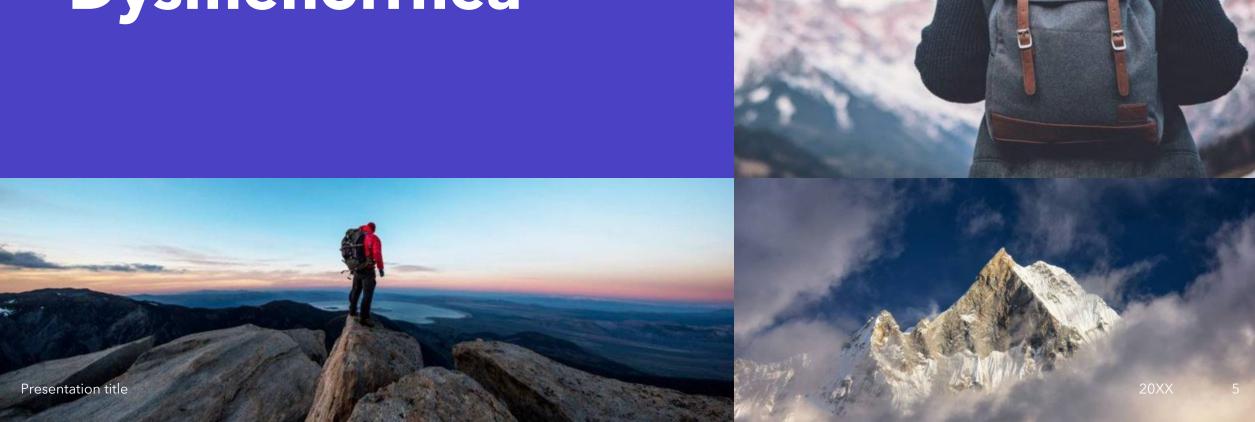
"What do you call 60yo who hasn't reached puberty? A late boomer."

Dysmenorrhea





Dysmenorrhea



Primary Dysmenorrhea

Definition

- Painful menstruation (menstrual cramping) in the absence of pelvic pathology -
- Begins when adolescents attain ovulatory cycles, within 6-12 months of menarche
- Pathophysiology related to prostaglandins and leukotrienes

Prevalence

 Range from 50%-90% of adolescent girls and young women

Associated Symptoms

- Nausea
- Vomiting
- Diarrhea
- Headaches
- Muscle cramps
- Poor sleep quality

Dysmenorrhea: Primary versus Secondary

Evaluation

- **History:** medical, gynecologic, menstrual, family and psychosocial
- Pelvic exam NOT necessary if only primary dysmenorrhea suspected
- Cultural differences in attitudes about menses may affect how comfortable patient is with discussion of menstrual-related symptoms

Suspect secondary if

- Symptoms suggest STI
- Severe dysmenorrhea immediately after menarche
- Progressively worsening dysmenorrhea
- Abnormal uterine bleeding: both heavy menstrual bleeding and irregular bleeding
- Lack of response to empiric medical treatment
- Family history of endometriosis

Treatment of Primary Dysmenorrhea

Nonsteroidal Antiinflammatory Agents

- Interrupts cyclooxygenase-mediated prostaglandin production
- Most effective when started 1-2 days before onset of menses and continued through the first 2-3 days of bleeding
- Taking with food and increased fluid intake may decrease GI and renal adverse effects

NSAIDs Dosage

- Ibuprofen: 800mg initially, then 400-800mg Q8h prn
- Naproxen sodium: 440-550mg initially, then 220-550mg Q12h prn
- Celecoxib: 400mg initially, then 200mg Q12h prn

Treatment of Primary Dysmenorrhea

Hormonal Agents

- Can be used if NSAIDs do not provide adequate relief OR as a first-line option
- Mechanism likely prevention of endometrial proliferation and/or ovulation, thus decreasing prostaglandin and leukotriene production
- Continuous regimens may give more rapid onset of pain reduction

Hormonal Agents

- Oral contraceptive pills,
- Contraceptive patch or vaginal ring,
- Single-rod contraceptive progestin implant,
- Depot Provera IM or SQ,
- levonorgestrel-releasing intrauterine system (LNG-IUS), continuous norethindrone 5mg (norethisterone acetate)

Complementary & Alternative Therapies

- Modification of diet, exercise, yoga
- Dietary supplements: fenugreek, ginger, fish oil, vitamin B1
- Smoking cessation
- Acupuncture
- Heat treatment

Secondary Dysmenorrhea

Further Evaluation

- Painful menses due to pelvic pathology or a recognized medical condition
- Warranted if pain lasts for 3-6 months despite empiric treatment
- Focus history on familial, GI, urologic, musculoskeletal, and psychosocial etiologies
- Consider a pelvic exam
- Consider a pelvic ultrasound

Pelvic Examination

- Endometriosis
- Obstructed reproductive tract anomaly
- Enlarged/irregularly shaped uterus
- Cervical friability or discharge (PID)
- Pelvic masses (ovarian cysts)

Pelvic Ultrasound

- Obstructive reproductive tract anomaly
- Uterine myomas (fibroids)
- Adnexal masses (endometriomas)

Definition

- Most common and recognizable symptoms are hirsutism and acne.
- Hirsutism: excessive terminal hair growth in a adult male distribution (face, sternum, lower abdomen, back and thighs)
- No clear consensus guidelines on diagnostic criteria for PCOS in adolescent girls within 2 years of menarche

Prevalence

- Polycystic ovarian syndrome (PCOS) is the most common cause of persistent hyperandrogenism beyond early puberty
- PCOS estimated to affect 6-15% of reproductive age women
- Hirsutism affects 5-10% of reproductive-aged females
- Acne vulgaris affects as many as 90% of all adolescents

Associated Symptoms/ Differential Diagnosis

- Alopecia
- Physiologic hyperandrogenism of puberty
- Idiopathic hyperandrogenism
- PCOS
- Nonclassic congenital adrenal hyperplasia
- Hypothyroidism
- Androgen-secreting tumors
- Cushing disease
- Severe hyperprolactinemia

Evaluation

- History: age of thelarche, adrenarche, menarche, hair removal techniques, menstrual history, use of anabolic steroids/testosterone, menstrual history (frequency/duration), timing and progression of acne/hirsutism (with record of prior treatments)
- If obesity present, timing and progression of weight gain
- Family history of hirsutism, severe acne, PCOS, or obesity
- Determine the degree to which acne or hirsutism bothers the patient

Evaluation

- Physical Exam:
- BMI
- Blood pressure
- Skin evaluation: hirsutism, acne severity, acanthosis, skin tags
- External evaluation of genitalia

Evaluation

- Lab Values:
- Regular menses:
 Free/total testosterone,
 DHEAS
 (dehydroepiandrosterone,
 e sulfate), 17OHP
 (hydroxyprogesterone)
- Irregular menses: LH, FSH, Prolactin, TSH, Free/total testosterone, DHEAS, 17OHP

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Secondary Dysmenorrhea

Definition

- Painful menses due to pelvic pathology or a recognized medical condition
- The most common cause of secondary dysmenorrhea:

Endometriosis

Other Causes

- Ovarian cysts
- Obstructive reproductive tract abnormalities
- Pelvic Inflammatory Disease
- Uterine leiomyomas
- Cervical stenosis
- adenomyosis

Secondary Dysmenorrhea

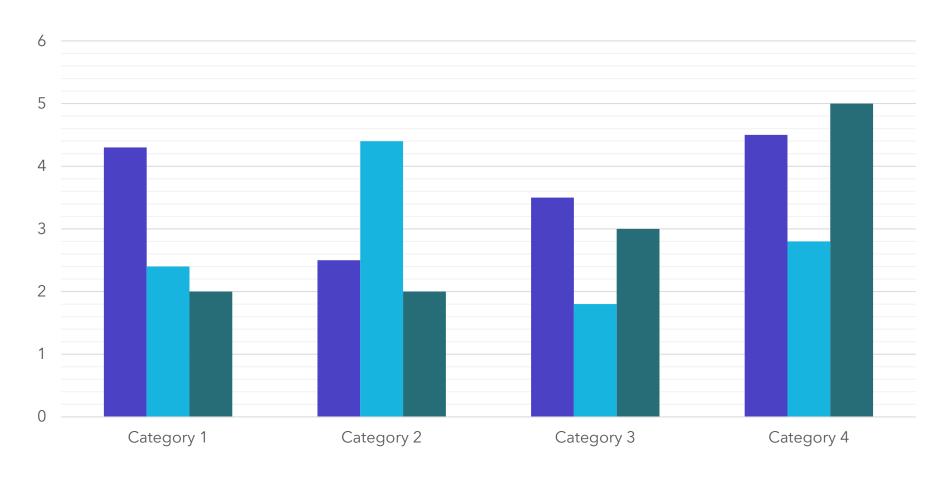
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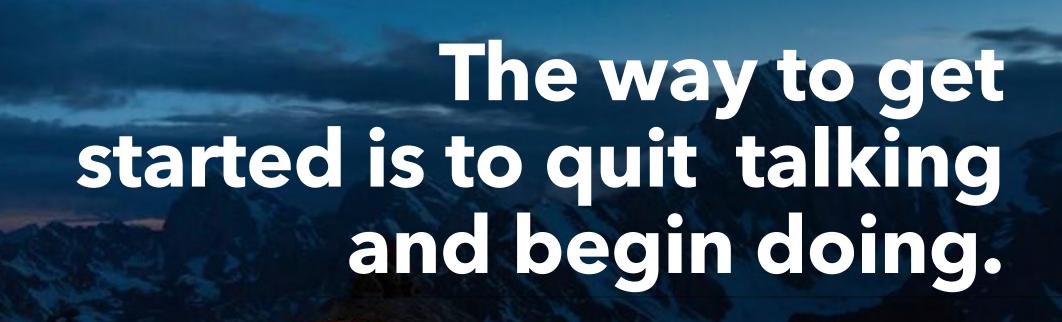
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Chart

	Category 1	Category 2	Category 3	Category 4
Item 1	4.5	2.3	1.7	5.0
Item 2	3.2	5.1	4.4	3.0
Item 3	2.1	1.7	2.5	2.8
Item 4	4.5	2.2	1.7	7.0

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Treatment of Dysmenorrhea

Hormonal Agents

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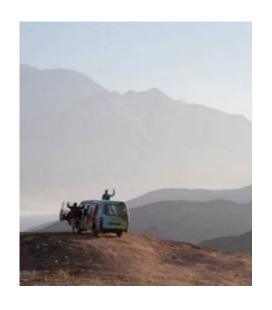
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Summary

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