

Screening:



Diagnosis:



Evaluate for PCOS in any patient with:
Irregular or missed periods
OR
Unwanted hair growth, acne or thinning hair
OR
Difficulty becoming pregnant

PCOS Diagnostic Criteria
2 out of 3 of the following:
1. **Oligo- or anovulation** (typically with irregular menses)
2. **Clinical and/or biochemical signs of hyperandrogenism**
3. **Polycystic Ovarian Morphology** (Based on US or AMH)

Irregular menses + clinical hyperandrogenism:
Exclude other causes (A,B)
Diagnose PCOS

Irregular menses + no clinical hyperandrogenism:
Test for Biochemical Hyperandrogenism (B) & Exclude other causes (A)

Hyperandrogenism without irregular menses:
Exclude other causes (B), Evaluate for ovulatory dysfunction (A,C) & Recommend Pelvic Ultrasound
(Anti-Mullerian hormone or AMH can be used as an alternative to US in adults)

Biochemical Hyperandrogenism present
Diagnose PCOS

No Biochemical Hyperandrogenism present, Recommend Pelvic Ultrasound (AMH as alternative)
If Polycystic Ovarian Morphology present, Diagnose PCOS

If ovulatory dysfunction present, Diagnose PCOS

If Polycystic Ovarian Morphology present, Diagnose PCOS

Laboratory Evaluations:

(A) Evaluation of irregular menses: Check TSH, prolactin, FSH

(B) Evaluation of hyperandrogenism: Check total testosterone, DHEAS, 17-hydroxyprogesterone. If Cushingoid features, check urine free cortisol.

(C) Evaluate for ovulatory dysfunction: Check progesterone level -7days prior to 1st day of next menses

Irregular Menses	<p>Can be normal in the first year post menarche = pubertal transition. > 1 to < 3 years post menarche: < 21 or > 45 days. > 3 years post menarche to perimenopause: < 21 or > 35 days or < 8 cycles per year. > 1 year post menarche > 90 days for any one cycle. Primary amenorrhea by age 15 or > 3 years post thelarche (breast development). Ovulatory dysfunction can still occur with regular cycles. If anovulation suspected test progesterone levels -7 days prior to 1st day of next menses. Level >3 ng/ml indicates ovulation.</p>
Hyperandrogenism	<p>Clinical Hyperandrogenism: Hirsutism, Acne, Androgenic alopecia (male-pattern baldness) Biochemical Hyperandrogenism: Total testosterone > 45 ng/dl OR DHEAS > 250 ug/dl 17-hydroxyprogesterone > 200 ng/dL may represent nonclassic CAH</p>
Polycystic Ovaries on Ultrasound	<p>Polycystic Ovarian Morphology (PCOM) is defined as: 1) 20 or more follicles in one or both ovaries (on newer, more sensitive ultrasound machines) or Ovarian volume > 10ml on either ovary OR 2) Anti-mullerian hormone (AMH) > 4</p>