Polycystic Ovary Syndrome

Polycystic ovary syndrome (PCOS) is an inherited disease that affects women of childbearing age. The disorder causes multiple abnormal cysts in enlarged ovaries, so that they do not produce the normal number of eggs and do not ovulate (release eggs) normally. The disease is present at birth but does not cause symptoms until women enter puberty. PCOS occurs in up to 10% of women and is a leading cause of female infertility. Women with PCOS have irregular and infrequent menstrual periods and may develop amenorrhea (complete absence of menstrual periods). Women with PCOS are likely to have high blood pressure, obesity (especially central obesity, around the midsection of the abdomen), facial acne, hirsutism (excessive facial and body hair growth), and thinning scalp hair. They also have insulin resistance, which may lead to development of type 2 diabetes. The February 7, 2007, issue of JAMA includes an article about polycystic ovary syndrome.

DIAGNOSIS AND TESTING

- History of irregular or absent menstrual periods
- Ultrasound examination of the ovaries (looking for the presence of multiple cysts)
- Blood pressure checks (since the risk of high blood pressure is high in women with PCOS)
- Screening for diabetes because women who have PCOS are likely to develop glucose intolerance (elevated glucose levels on an oral glucose tolerance test) and type 2 diabetes

TREATMENT

Treatment of PCOS focuses on the symptoms that occur in each individual. Risk reduction for diabetes and heart disease is important. A number of treatments are available:

- Weight loss and exercise can help to manage diabetes and high blood pressure and reduce risk of development of cardiovascular disease and stroke. Weight loss and exercise are also crucial to prevent type 2 diabetes. Medications may be prescribed to control blood pressure.
- Stopping smoking reduces risk of cardiac disease.
- Treating type 2 diabetes may involve oral medications and insulin if diet and exercise do not control elevated blood sugar levels.
- Oral contraceptives (birth control pills) regulate menstrual periods and suppress androgen (the hormone that causes excess body and facial hair growth in women).
- Metformin, an oral medication often used in treating type 2 diabetes, improves insulin resistance even if diabetes is not yet present, decreases androgen, and improves ovulation.
- Spirinolactone is a diuretic that decreases androgen and treats acne and hirsutism.
- Mechanical methods (plucking, shaving, depilatory products) help to manage excessive hair growth. Laser treatments and prescription creams may also be prescribed for women with hirsutism.

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FOR MORE INFORMATION

- American College of Obstetricians and Gynecologists
  www.acog.org
- Polycystic Ovarian Syndrome Association
  877/775-PCOS
  www.pcosupport.org

INFORM YOURSELF

To find this and previous JAMA Patient Pages, go to the Patient Page Index on JAMA’s Web site at www.jama.com Many are available in English and Spanish. A Patient Page on weight and diabetes was published in the March 15, 2006, issue.

Sources: American College of Obstetricians and Gynecologists; Polycystic Ovarian Syndrome Association; American Academy of Family Physicians