

OVARIAN TUMOUR, BENIGN (Ovarian Cyst / Growth)

The ovaries are the female reproductive organs that contain eggs and will release them on a regular basis (usually monthly in majority of the women). It also produces female and male hormones. An ovarian tumour is abnormal growth in the ovary and can be either solid or cystic. It can be divided into either a benign (non-cancerous) or malignant (cancerous) type. Benign or non-cancerous tumours do not invade neighboring tissue the way malignant tumours do. The very large ovarian tumours often turn out to be benign.

The term ovarian cyst refers to an abnormal growth in the ovary that contains mainly fluid, although occasionally some solid component may be present as well.

Symptoms and signs

Many women with ovarian growths do not have symptoms and is only detected during routine screening. Some may present with the following symptoms:

- Mild pelvic pain.
- Pain in the lower back.
- Discomfort with sexual intercourse.
- Abnormal menstruation, including changes in menstrual flow, length of bleeding and intervals between periods.
- Some ovarian growth may produce excessive hormones and the clinical effects will depend on the type of hormones that are being produce such as :
 - Effects of excessive female hormones – present with abnormal menstruation, precocious puberty (early onset of puberty in young girls)
 - Effects of excessive male hormones – present with acne, oily skin, increased male type of hair distribution, hoarseness of voice, breast atrophy, clitoral enlargement.
- If a large ovarian tumour twists or ruptures, the following will occur in the lower abdomen—severe pain, rigid muscles, swelling.

Common types of benign ovarian tumours are:

- Endometriotic cysts
- Dermoid cyst (mature cystic teratoma)
- Cystadenoma

Causes

- Usually unknown, but it is probably related to abnormalities of female hormone production and secretion.
- Endometriosis.

Prevention

There are no specific or effective preventive measures at the moment. Use of combined oral contraceptives pills may decrease the risk.

Complications

- Sudden onset of severe abdominal pain, either due to rupture, bleeding or twisting of the ovarian tumour. This would require an emergency abdominal surgery.
- Progressive enlargement, requiring an open surgery and a larger incision.
- Cancerous change.

Investigation and diagnosis

A Pap smear is routinely advised for women who are at risk, if it has not been done recently. Diagnostic tests include laboratory blood studies (tumour markers) and pelvic examination. Ultrasound scan is required for diagnosis and to help determine the best therapy. In some cases, a CT scan or MRI may be recommended.

Treatment

- Treatment may not be necessary in those who are without any symptoms and the ovarian tumour is small. Regular follow-up is advised, so that the size and growth of the tumour can be monitored.
- Some tumours require surgery to diagnose accurately, to rule out cancer or for definitive treatment purposes. For most benign ovarian growths, the operation of choice is cystectomy. This is a procedure whereby only the growth is removed, while retaining the ovary. This is recommended only if the growth is benign and the woman is young. However, the whole ovary (together with the growth) may need to be removed if there is suspicion of cancer or the ovary is no longer healthy due to various reasons (such as twisting of the ovary causing gangrenous change or infection). If one ovary must be removed, normal conception and childbirth is possible as long as a normal ovary remains on the other side. The approach to cystectomy alone or removal of the ovary can be either via laparoscopy or laparotomy.
 - Laparoscopy – this is the procedure of choice if it is feasible. Laparoscopy (telescope inserted through the navel) is a minimally invasive surgical procedure that can diagnose and treat ovarian tumours at the same time. Instruments are inserted through additional tiny incisions in the abdomen and are used to cut and remove the tumour.
 - Laparotomy – this is a surgical opening made into the abdomen. The skin incision is much longer than laparoscopy. It is indicated in the following circumstances: if the ovarian tumour is very big, when there is previous operation making laparoscopy risky or when there is suspicion of cancer.
- Combined oral contraceptives pills can be prescribed and may help shrink or destroy some tumours.
- There are no restrictions on activity or diet, unless surgery is necessary.

See your doctor immediately if there is:

- Sudden onset of severe abdominal pain, with or without abdominal distention.
- Progressive abdominal swelling.
- Poor appetite, abdominal discomfort, nausea or vomiting, significant weight loss.

Disclaimer

This is for informational purposes only and is not intended to be a substitute for professional medical advice, diagnosis, or treatment. It is important for readers to seek proper medical advice when necessary.

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