An abdominal cyst

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Case Report

A 29-year-old woman presented with a 12-month history of abdominal swelling. On examination, there was a smooth cystic mass arising from the pelvis and occupying the lower abdomen. Vaginal examination was normal. A computed tomography (CT) scan was performed (figure 1).

Question

Suggest two differential diagnoses

Figure 1  CT scan showing a large unilocular cyst. The right ovary was normal; the left was not seen
Answer

Ovarian or mesenteric cyst

The patient underwent a laparotomy at which a 5-litre cyst was excised from the sigmoid mesocolon (figure 2). The ovaries were normal. Histology revealed a urogenital mesenteric cyst of the mullerian type (figure 3). The patient made an uneventful recovery.

Comment

Mesenteric urogenital cysts are well described but rare abnormalities thought to be derived from vestigial remnants of the embryonic urogenital apparatus. They are distinct from lymphatic and enteral cysts found in similar locations. Despite their developmental origin, they usually present in adults rather than children.

Pre-operative diagnosis of such cysts is often difficult. Ultrasound and CT scanning may be suggestive, but it is often impossible to make an accurate distinction from other (more common) pathological entities, particularly ovarian cysts. In this case, the normal findings on vaginal examination raised suspicion that the cyst was not arising from the gynaecological organs.

Mesenteric urogenital cysts have been classified into pronephric, mesonephric, metanephric and mullerian variants, on the basis of their histology and anatomical location, although it is unusual for them to fall definitively into any of these categories. The mullerian type have characteristic ciliated columnar epithelium resembling that of normal fallopian tube and are particularly rare. Only two other cases have been described in the literature.

In most cases, as in this patient, the blood supply is not derived directly from major abdominal vessels. Complete excision is usually possible without jeopardising the vascularity of adjacent organs. Malignant change or recurrence after complete excision have never been described and surgical removal is therefore curative.

Final diagnosis

Mullerian urogenital mesenteric cyst arising in the sigmoid mesocolon

Learning points

- mesenteric urogenital cysts are rare developmental abnormalities
- they present in adults rather than children
- the mullerian type has characteristic columnar ciliated epithelium resembling that of normal fallopian tube and is exceptionally rare
- ultrasound and CT scanning may not accurately distinguish mesenteric cysts within the pelvis from ovarian cysts
- confirmation of the diagnosis and curative treatment are both achieved by surgical exploration and excision

Keywords: mesenteric urogenital cyst, computed tomography

References

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