

# Pelvic masses in a 13-year-old girl—a (not so) rare diagnosis

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## DESCRIPTION

Imperforate hymen is the most common congenital cause of genital outflow obstruction in females, with a reported incidence of 0.014–0.024% in children.<sup>1</sup> This abnormality may not be detected until the onset of menses, when haematocolpos causes symptoms due to expanding pelvic masses. Recurrent abdominal and back pains are the most common symptoms, associated with primary amenorrhoea and urinary retention.<sup>2,3</sup>

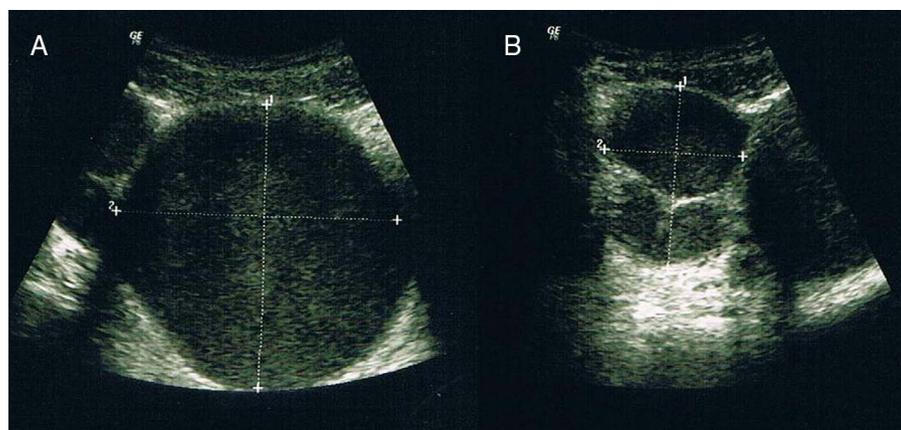


**Figure 1** Pelvic inspection showed imperforate hymen that was bulging forwards.



**Figure 2** On ultrasound, a dilated uterus was noted, suggestive of haematometra.

A 13-year-old girl was admitted because of lower back pain and bowel constipation for several days. She was initially referred with the probable diagnosis of bilateral ovarian masses in an abdominal ultrasound. She had not attained menarche. There was no history of cyclic abdominal pain or urinary retention. The patient's secondary sexual characteristics were present. Physical examination revealed a distended abdomen, lower abdominal tenderness and a hypogastric mass. On pelvic examination, the hymen was found to be imperforate and was bulging forwards (figure 1). On rectal examination, a large mass was felt anteriorly. Abdominal ultrasound revealed a dilated vagina, suggestive of haematocolpos; a dilated uterus, suggestive of haematometra (figure 2) and bilateral pelvic cystic adnexal masses (figure 3; A—left, B—right). The patient was taken to the operating room and a cruciate incision was made over the hymen under general anaesthesia. Around 850 mL of dark, red,



**Figure 3** Ultrasound also showed bilateral pelvic cystic adnexal masses (on the left—A; and right ovary—B).



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tarry blood was drained. No other vaginal anatomic abnormality was found. The postoperative period was uneventful. A follow-up abdominal ultrasound, 9 months later, showed no abnormalities.

### Learning points

- ▶ Imperforate hymen is a rare diagnosis, but should be considered when dealing with premenarcheal adolescent girls with back pain and pelvic masses.
- ▶ Difficult defecation (outflow obstruction due to compression) is a possible symptom and was present in this patient.

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**Patient consent** Obtained.

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