Case Report

Giant Pelvic Retroperitoneal Epidermoid Cyst: A Rare Case Report

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Epidermoid cyst is a frequent benign cutaneous tumor. The pelvic localization does not occur very often. The literature that taps into such cases is very limited in scope. Here is a report of a 27-year-old woman with a giant pelvic retroperitoneal epidermoid cyst. The use of ultrasound exploration and computed tomography has indicated ovarian origins. The surgery also revealed a retroperitoneal epidermoid cyst, uterus and ovaries were all intact. The evacuation of a cyst was found to contain lamellas of keratin. Histology permitted us to confirm the diagnosis. The patient was faring well after two years of followup.

1. Introduction

Epidermoid cyst is a common cutaneous benign tumor developed from ectodermal inclusion. Patients with an age ranging from 19 to 45 are most likely to be contaminated with this tumor [1].

The most common locations of epidermoid cysts are the face followed by the trunk and the neck, in that order [2]. However, some exceptional locations are reported: brain [3], bone [4], testis [5], penis [6], clitoris [7], spleen [8], and kidney [9].

The pelvic retroperitoneal cysts are rare to come across [10]. We report a case of giant pelvic retroperitoneal epidermoid cyst observed at the Department of Gynecology and Obstetrics II, University Hospital Hassan II, Fez, Morocco.

2. Case

A 27-year-old single woman, G0P0, showed the following symptoms: steadily growing swelling in the abdomen for 6 months, compounded by pelvic pain, and coupled with intermittent constipation and dysuria as a sign of compression.

The patient had her menarche at the age of 14, and the menstrual cycles were regular without abnormal uterine bleeding. The physical examination revealed the firm, mobile and insensitive abdominal pelvic mass reaching the umbilical point; whereas the rest of examination revealed no abnormalities.

The abdominal ultrasound showed a giant abdominopelvic well-circumscribed hypoechochogenic mass separated from the uterus. The ovaries could not be visualized.

The computed tomography showed a well-circumscribed mass, measuring 20 cm, with fluid density not taking the contrast, without walls or vegetations, displacing the uterus forward with the left ureterohydronephrosis respecting the cortex; the ovaries could not be visualized and the diagnosis pointed to a giant ovarian cyst (Figure 1). Laboratory preoperative investigations were normal.

Median laparotomy was performed and a 25 cm retroperitoneal cyst was found. Ovaries and uterus were normal (Figure 2). After opening the peritoneum (a general surgeon was involved during the operation); we discovered a giant retrorectal firm mass of whitish color, surrounded by pseudocapsule. Under tension, an accidental rupture of
Figure 1: Computed tomography showed a well-circumscribed mass displacing the uterus forward with left ureterohydronephrosis respecting the cortex suggesting a giant ovarian cyst.

Figure 2: Surgical exploration showed a 25 cm retroperitoneal cyst. Ovaries and uterus were normal.

Figure 3: An accidental rupture of the cyst gives way out of the slats reminiscent of keratin.

3. Discussion

Epidermoid cyst is a frequent benign cutaneous tumor. It can occur anywhere on the body, and the most frequent sites involved are the face, the scalp, the neck, and the trunk [6].

Only a few cases (fifteen cases) were reported in the pelvic whose location is retroperitoneal, retrorectal, presacral [11–16], one case was reported in the round ligament [17].

Epidermoid cysts are usually small; however, sometimes they can reach significant volumes, displacing or damaging nearby organs [2].

The pathogenesis is still unclear: congenital or posttraumatic theories are discussed [10].

Because of the rarity of epidermoid cyst, this diagnosis is rarely evoked, and is difficult in the preoperation stage. Clinical examination including pelvic examination revealed a well-limited cyst. Ultrasound and computed tomography (CT) often lead to ovarian cyst diagnosis; CT identifies better epidermoid cysts which are characterized by the absence of homogeneous fluid density, which can easily remove lipomas, fibromas, and desmoid tumors that are differential diagnosis with epidermoid cysts.

Magnetic resonance imaging (MRI) is more specific: epidermoid cyst appears generally as hypointense on T1-weighted RM imaging, and hyperintense on T2-weighted imaging [18].
4. Conclusion

Epidermoid cyst is a frequent benign cutaneous tumor. The pelvic location of this entity is rare and difficult to diagnose preoperatively, and so should be considered in the differential diagnosis of ovarian tumors. The treatment consists of a surgical ablation using a cleavage to avoid any damage for other organs.

References

