INTRODUCTION

Paraovarian cysts (PCs) are cystic tumors that can be encountered between the ovarian hilum and the ovarian fimbria located within the mesosalpinx and broad ligament, being usually diagnosed within the 3rd and 4th decade of life [1].

These lesions are usually benign, accounting for 5% to 20% of all adnexal tumors, and they may originate from the Müllerian (paramesonephric) or Wolfian (mesonephric) ducts, or mesothelium [2]. Sixty eight per cent of the PCs originate from the mesothelium that covers the peritoneum, being lined with flattened epithelium. Nevertheless, 30% of them originate from the paramesonephric remnants, being lined with secretory, ciliated columnar, or cuboidal epithelium, while the remaining 2% originate from the mesonephric remnants, and are characterized by cuboidal or flattened epithelium.[3,4]

Paraovarian cysts (PCs) are usually diagnosed during the 3rd or 4th decade of life, and up to 80% of them are asymptomatic being diagnosed incidentally during a random abdominal ultrasound. However, in certain cases these patients can present with abdominal pain, nausea, or vomiting due to cystic complications, such as perforation, bleeding, excessive growth, torsion, and malignant transformation.[5,6] The prevalence of neoplastic PCs is usually very low.[7]

Case Summary

A twenty nine years old single patient. She has long standing abdominal discomfort, dyspepsia, urinary frequency and presented with pelvi-abdominal mass. She has regular menses with no marked dysmenorrhea or any intermenstrual bleeding. Her past medical and surgical history is irrelevant. She is not smoking and do not drink alcohol. Her abdominal examination revealed a giant pelvi-abdominal mass cystic in consistency, not tense or tender and reaching up to the xiphisternum.

Examination

Her general examination is unremarkable with normal pulse, temperature, blood pressure and respiratory rate. Examination of the other systems reveal unremarkable findings. The patient body weight is 70.3 KG.

Investigations

Blood group O positive, Hemoglobin 13.9 gm/dl, serum creatinine 0.82 gm/dl and RBS 110 mg/dl. CT of abdomen and pelvis revealed a large pelvi-abdominal cystic lesion seen extending from the pelvic region till the epigastric region upwards. It measures 36 X 30X 27 cm in its widest dimensions (Fig. 1,2,3) . It shows clear fluid density. It shows mass effect upon the related abdominal organs and the bowel loops in the form of displacement of bowel loops and pancreas. The cyst is clearly separated from the other abdominal organs. No loco-reginal enlarged lymph nodes. Clear Lung bases. Normal size and homogenous parenchymal attenuation of the Liver. Normal CT appearance of the gallbladder, pancreas, adrenals, spleen, both kidneys, aorta and IVC. Normal uterus with no lesions or masses. No free ascites. Impression: Large pelvi-abdominal cystic mass lesion mostly of ovarian origin, for further assessment.

Operative Remarks

Under general anesthesia and after abdominal preparation, the abdomen was opened in layers by a midline incision starting below the umbilicus and extending up around the umbilicus reaching to just below the xiphisternum to be able
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There was no remarkable adhesions between the mass and surrounding structures. Examination of the mass revealed that it was arising from the right broad ligament with the right ovary looks normal in shape and size. The right fallopian tube was seen to be over stretched and present on the outer surface of the mass and looked unhealthy. The leaves of the broad ligament peeled off from the surface of the Paraovarian cyst. The Giant cyst removed from the abdomen. The redundant broad ligament tissues together with the overstretched right Fallopian tube was excised to avoid possible right tubal ectopic pregnancy in the future. The mass measures 35 X 26 X 18 cm and weighs 12160 gm (Fig.4, 5). The abdomen was closed on layers and subcuticular sutures to the skin. The mass was sent to the laboratory for histopathological examination which revealed the presence of a huge benign Paraovarian and benign paratubal cysts. The postoperative period of the patient was uneventful and she was discharged home in the third postoperative day.

Discussion

Paraovarian cysts (PCs) constitute a homogeneous group of cystic masses originating from the mesosalpinx or the broad ligament, located in the proximity of the ovary and the Fallopian tube [11]. The histologic variants of PCs include mesonephric, mesothelial, and paramesonephric origins. The most frequent reported type was paramesonephric variant [12]. In our case, the giant PC was also located within the broad ligament and the histologic examination revealed no signs of neoplasia. The microscopic examination revealed the cyst to be lined by a single layer of columnar ciliated (tubal-like) epithelium, thin layer of smooth muscle and underlying congested fibrovascular tissue. Usually these PCs grow slowly, and they are discovered incidentally during the third or fourth decade of life, being rare during childhood or adolescence [6]. The preoperative differentiation between OCs and PCs is very difficult to be certainly established despite proper imagistic assessments. The clinical presentation of OCs and PCs are almost the same and the importance of differentiation is only theoretical because the management is also almost the same. This current case was diagnosed by CT as being ovarian in
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References


