Complete bicornuate uterus with complete transverse vaginal septum

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Bicornuate uterus has two symmetric uterine cavities that are fused caudally and have some degree of communication between two cavities, usually at the uterine isthmus. A complete bicornuate uterus has a seperatory cleft of tissue that is extended to the internal OS. Lesser degree of septation of the two uterine horns has constitution, a partial bicornuate uterus. Bicornuate uterus is a class of four anomaly of American fertility society classification of mullerian anomalies. Here we report a case of a 19-year-old female patient with complaint of abdominal pain and spotting since 4 months ago. In sonography it revealed bicornuate uterus and hematocolpos. The patient underwent general anesthesia and examination that reveal the transverse vaginal septum. Septum removed by resectoscope was successful.

Key words: Bicornuate uterus, vaginal septum, hematocolpos

INTRODUCTION

Bicornuate uterus is a type of lateral fusion disorder of the mullerian ducts.[1]

Congenital uterine anomaly is more common and generally is recognized by many practicing clinicians. Distribution of mullerian anomaly is septet (34%), bicornuate (39%), didelphic (11%), arcuate (7%), unicorn (5%), hypoplastic and aplastic and other forms (4%).[2]

Uterine didelphys (class III) anomaly is distinguished from bicornuate and septate uteri by the presence of complete non-fusion of the cervix and hemiuterine cavity. Heinonen[3] reported that all 26 women with a uterine didelphys had a longitudinal vaginal septum as well. Occasionally one hemivagina is obstructed by an oblique or transverse vaginal septum.[4-6]

Heinonen reported 70% of successful pregnancy outcomes. There was preterm delivery in 20%, fetal growth restriction in 10%, and breech presentation in 43%.

In a study of Tzialidou, predominance of imperforated hemivagina: 69.2% right-sided versus 30.8% left sided septum; 84.6% previous surgical interventions in the study group, such as partial removal of the septum and re-obliteration, unilateral salpingo-ovariectomy and vaginal drainage of pyometra. They used a single transvaginal surgical procedure, including the removal of the obstructed vaginal septum and marsupialization of the blind hemivagina.[7]

CASE REPORT

Here, we report a case of a 19-year-old female patient with complaint of dysmenorrheal, spotting, and severe abdominal pain since past 6 months. She had abnormal menstruation cycle from past 5 years. The patient also complained that after finishing her last menstruation cycle in November 2012, she had spotting for 50 days. As she was virgin, no physicians examined her hymen or urogenital area. In some sonographic reports hematocolpos was reported, and the other sonographic reports indicate a dens mass or tumor. Of course, bicornuate uterus and collection of clot in the left horn and cervix was seen too. Because of this reason the patient had menstruation cycle from one horn of uterus, but another horn was blocked by an oblique septum so it makes for her hematocolpos and hematometra. Kidney sonographic report was normal. Finally, magnetic resonance imaging (MRI) was requested for the patient. In MRI [Figure 1] report, bicornuate uterus and hydrometrocolpos was seen.

As the patient was virgin and virginity in Iran has ethical and legal importance, she was examined by giving...
her a legal certificate from the official physicians, under general anesthesia in Alzahra hospital operating room in December 2012. Hymen was annular and intact. An oblique vaginal septum near the cervix had touched then septum removed by resectoscope. Thick chocolate liquid extracts. After the surgery, hymenorrhaphy was done on the patient. After 2 days, the patient recovery and was discharged from the hospital.

DISCUSSION

Bicornuate uterus and vaginal septum are congenital defect of the female genital tract.\[2\]

According to the American Fertility Society classification of mullerian duct anomalies, bicornuate uterus is a class IV anomaly. Incidence of this anomaly varies. This may affect a woman’s obstetric as well as her gynecologic outcome.\[1\]

A bicornuate uterus is caused by incomplete lateral fusion of the mullerian ducts. It is characterized by two separate but communicating endometrial cavities. Mullerian anomaly is divided into seven classes (unicorn, bicorn, septate, arcuate, didelphys, hypoplastic and aplastic, associated with DES).

External fundal depressions of variable depths are associating with a septate uterus, indicating the coexistence of the two anomalies.\[8\]

Sergio is present in the patient with severe dysmenorrheal with septate uterus and cervical duplication and longitudinal vaginal septum.\[9\] Bicornuate uterus is associated with infertility. Unfortunately, bicornuate uterus is mostly a birth defect. Pregnancy cannot be carried out successfully even if the fertilized egg is implanted. Bicornuate uterus can be diagnosis by method of sonography, MRI, HSG, hysteroscopy and laparoscopy. Bicornuate uterus could be one of the causes of female infertility, the woman can conceive. She will face numerous complicate to carry on with the pregnancy and deliver successfully. Singh et al,\[10\] presented the pregnant woman with bicornuate uterus that presented with acute abdomen rule of ectopic pregnancy.\[10\] Also Nepal department of obstetrics and gynecology presented the woman with term pregnancy with complete bicornuate uterus and with complete longitudinal vaginal septum.\[1\]

In a case report study of Kumar et al,\[11\] the MRI showed bicornuate uterus and cervical agenesis. Hysterectomy and repair of the uterovesical fistula was done. The vagina was reconstructed using an amniotic mould.

REFERENCES


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