Spontaneous Uterine Rupture in First Trimester Pregnancy: A Case Report
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Abstract

Uterine ruptures are defined as non-surgical solutions of continuity of the wall of the pregnant uterus, due to a weakening factor and / or excessive tension on the uterine wall. We report the case of a spontaneous uterine rupture occurring in a young patient with in first trimester pregnancy.

Keywords: Uterine rupture, first trimester pregnancy.

INTRODUCTION

Uterine rupture (UR), which is one of the most serious accidents that can occur during labor or at the end of pregnancy, is a major contributor to maternal and fetal mortality in developing countries. Its risk factors are a history of cesarean section or gynecological surgeries (myomectomy), uterine malformations, excessive use of uterotonics, etc. Most usually occur during labor in pregnant women with the risk factors. Of these spontaneous uterine ruptures, only 17% appear before the onset of labor. When the symptoms appear early in the pregnancy, the diagnosis made before laparotomy is that of late abortion. When an ultrasound is done either it is normal and the diagnosis remains uncertain, or it shows the hemoperitoneum and then the discussion is between obstetric hemorrhage and surgical hemorrhage (spontaneous splenic rupture, vascular rupture of other origins). However, its incidence in the 1st and 2nd trimester of pregnancy is rare. Faced with this real diagnostic problem, we report a case of uterine rupture in an open book during a 12-week pregnancy in a pregnant woman with a history of hemostatic curettage.

CLINICAL OBSERVATION

This is a 32-year-old patient, G5P3 (3 live children delivered vaginally and a miscarriage one year ago curetted), without a notable pathological history, who presented to the gynecological emergency department of our training. For abdominopelvic pain evolve for two days over a 12-week pregnancy associated with vomiting and hemodynamic instability. Clinical examination reveals generalized abdominal defense with gynecological examination a gravid cervix without bleeding from the endocervix and an enlarged uterus, painful on mobilization with cries of Douglas-fir. A pelvic ultrasound performed objectifying a stopped pregnancy of 12 weeks with abundant effusion. Faced with the diagnostic difficulty and hemodynamic instability, an emergency exploratory laparotomy performed revealing a fundic uterine rupture arriving at the left horn with disinsertion of the left tube (figures 1, 2 and 3), thus conservative treatment carried out associated with a left salpingectomy, then the patient was transfused by 3 red blood cells and transferred to intensive care unit, the postoperative consequences were unremarkable then the patient was declared discharged on day 5.

Fig-1: Fundal uterine rupture arriving at the left horn
**DISCUSSION**

Uterine rupture, which remains a concern of the obstetrician in Africa, is defined as any non-surgical solution to the continuity of the uterine wall occurring during pregnancy or during labor. It is conventional to distinguish on the one hand the complete uterine rupture characterized by a total rupture of the uterine wall putting the uterine cavity and the peritoneum in communication (the membranes may or may not be intact) and on the other hand the incomplete uterine rupture. (déhiscence) which is characterized by a rupture of the endometrium and myometrium without involvement of the visceral peritoneum. Its incidence is low in industrialized countries (0.2 - 0.8%). Yet in our developing countries despite all the health practices implemented, uterine ruptures remain frequent.

Uterine rupture can occur at any gestational age, but it occurs in 75 to 80% of cases during labor when attempting a vaginal birth after cesarean section and in the second half of pregnancy. A uterine rupture in a young pregnancy at the start of the 1st trimester therefore remains exceptional in the literature. We are therefore interested in this type of rupture. Premature uterine rupture (during the 1st trimester) occurs in specific situations (cornual or interstitial pregnancy, history of perforation, pregnancy on a cesarean scar, history of curettage, etc.), however the small number of observations collected would not allow not defining reliable risk factors.

However, in young pregnancies as presented here, its symptomatology remains variable. On the other hand, the occurrence of metrorrhagia would be less frequent but the signs of hemoperitoneum almost constant.

The main interest of abdomino-pelvic ultrasound is to highlight the hemoperitoneum and the diagnosis will only be confirmed intraoperatively during the laparotomy. On this, the methods of surgical repair (hysterectomy or conservative treatment) depend on the anatomical lesions observed, age, parity, socio-economic level, ethnicity, experience of the operator, etc.

Although abdominal pain and vomiting are among the classic signs of UR, it was difficult to think about it given the precocity and nonspecific nature of these symptoms which can also be seen with peritonitis and other syndromes. Ultrasound had a limited role in identifying peritoneal effusion and finally the diagnosis was not made until after laparotomy. Given the young age of the patient, the desire for motherhood, conservative treatment was therefore undertaken although the risk of recurrence at the next pregnancy is of the order of 4 to 19%.

The patient has consented to the publication of these images.

Conflicts of Interest: The authors declare no conflicts of interest.

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