Rupture of uterus

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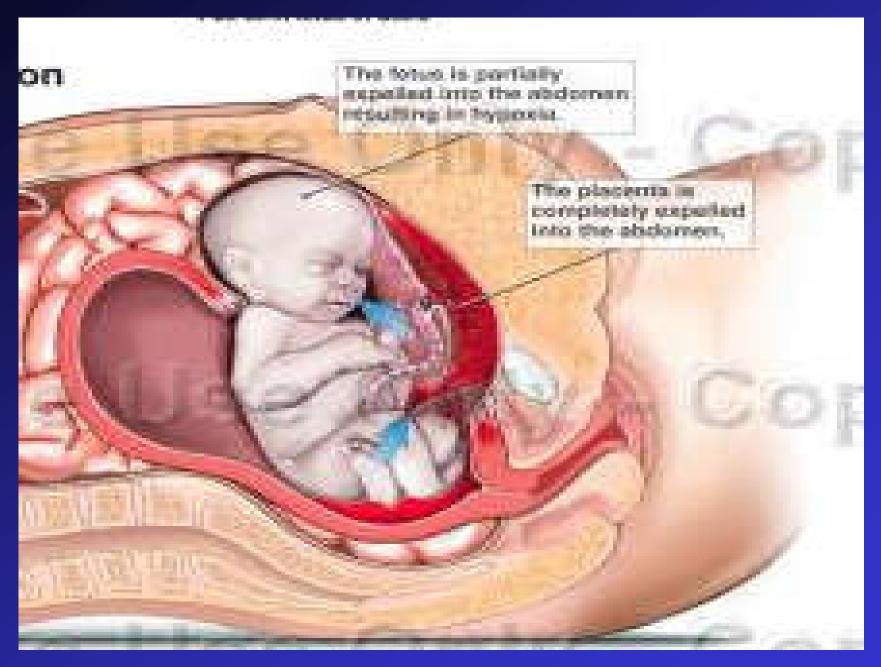
a potential obstetric catastrophe

a major cause of maternal death.

 The incidence of uterine rupture is approximately 1/1500 deliveries.

Definition

- Separation of the muscular wall of the uterus
- usually occurs during labor
- occasionally happen during the later weeks of pregnancy



causes

During pregnancy

- weak scar after previous operations on the uterus
- History of cesarean section (VBAC, vaginal birth after c- section)
- myomectomy
- excision of a uterine septum
- previous perforation of uterus(D&C, hysteroscopy, forceps delivery

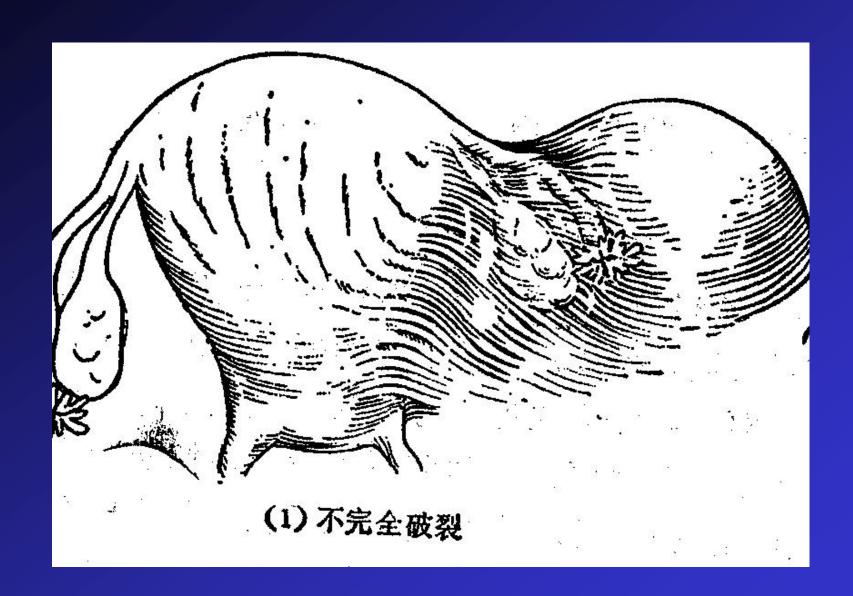
During labor:

- uterine hyper-stimulation(oxytocin with pitocin induction or argmentation of labor)
- obstructed labor(macrosomia, feopelvic dispropotion)
- intrauterine manipulation(internal version,manual removal of an adherent placenta)
- forcible dilatation(cervical tear)
- a weak scar(C-section or other operations)

The most common cause of uterine rupture is separation of a previous cesarean section scar.

types

- Incomplete rupture
- complete rupture
- depending on whether the peritoneal coat is torn through or not



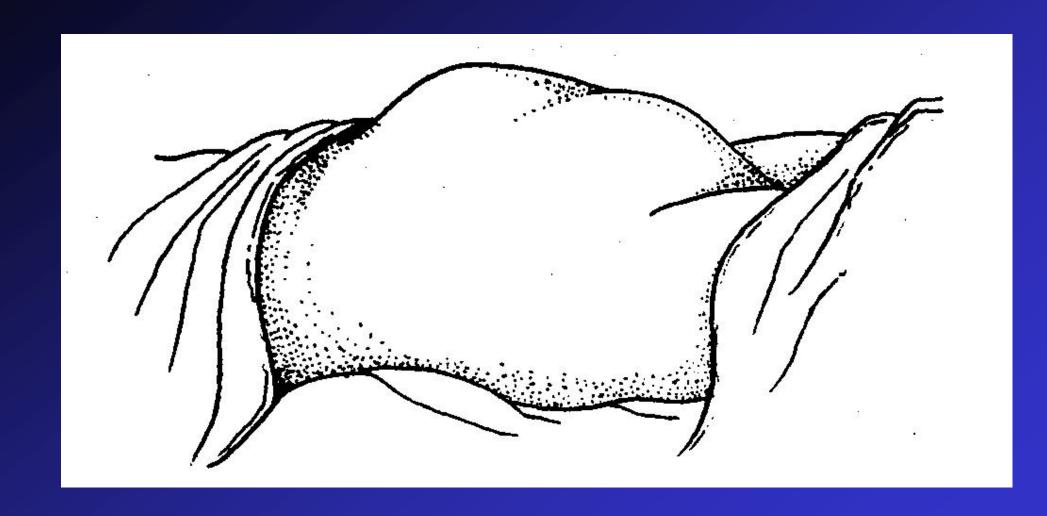


Symptoms and signs

- 1. Rupture of scar
- be gradual that symptom is very slight in incomplete rupture
- abdominal pain wrongly attributed to the onset of labor
- severe pain and shock occurs in complete (suddenly pain)
- fetal distress
- bleeding in vagina

2. Spontaneous rupture during obstructed labor

- prolonged labor
- violent uterine actions,
- *pathologic retraction ring
- disporpotion, malpresentation(transverse lie)
- fetal distress
- a sharp, tearing pain in lower abdomen
- pulse rapid
- blood pressure fall
- fetus may be felt in the abdominal cavity



- 3. Rupture by oxytocin drugs:
- be follow the administration of oxytocin
- the danger is less if the drug is given as a dilute intravenous drip given in an increasing fashion

RUPTURE OF THE UTERUS CLINICAL FINDINGS. DIAGNOSIS

Impending uterine rupture → the sudden appearance of gross hematuria is suggestive.

- Prior to the onset of labor, a beginning rupture may produce local pain and tenderness associated with increased uterine irritability and, in some cases, a small amount of vaginal bleeding.
- If the fetus is partly or totally extrauterine, abdominal palpation or vaginal examination → the presenting part has moved away from the pelvic inlet (loss of station).

RUPTURE OF THE UTERUS The classic SIGN & SYMPTOMS of spontaneous rupture during labor

- cessation of uterine contractions
- suprapubic pain and tenderness
- disappearance of fetal heart tones
- recession of the presenting part
- vaginal hemorrhage → signs and symptoms of hypovolemic shock and hemoperitoneum.

Prognosis

- has a high mortality
- peri-natal morbidity is high

RUPTURE OF THE UTERUS PREVENTION

- good prenatal care
- correct trial of labor
- correct supervised administration of oxytocin during labor.
- correct closure of a cesarean section incision
- correct estimation of fetal weight

treatment

- Women's general condition must be improved giving morphome, blood transfusion,glucose solution)
- immediate laparotomy
- hysterectomy
- wide-spectrum antibiotics

RUPTURE OF THE UTERUS TREATMENT

Whenever uterine rupture is diagnosed –

EMERGENCY SURGERY

- two effective, large-bore intravenous infusion
- type-specific whole blood in large quantities is rapidly infused;
- a surgical team, including anesthesia personnel;
- pediatric personnel skilled in neonatal resuscitation.

- Immediate laparotomy
- Suture or Total hysterectomy
- If a large hematoma in the broad ligament, identification and ligation of the internal iliac arteries (reduces the hemorrhage appreciably).
- Prompt diagnosis, immediate operation, the availability of large amounts of blood and antimicrobial therapy have greatly improved the maternal prognosis.