Placental Abruption

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Causes of Late Pregnancy Bleeding

- Placenta Previa
- Abruption
- Ruptured vasa previa
- Uterine scar disruption
- Cervical polyp
- Bloody show
- Cervicitis or cervical ectropion
- Vaginal trauma
- سمینار دو روزه مرگ و میر مادران /۲۱-۲۰ مرداد Cancer مرداد ۲۹ Cancer

Life-Threatening

Placental Abruption (Abruptio placentae)

 Placental Abruption is the separation of the placenta from the uterine wall before delivery

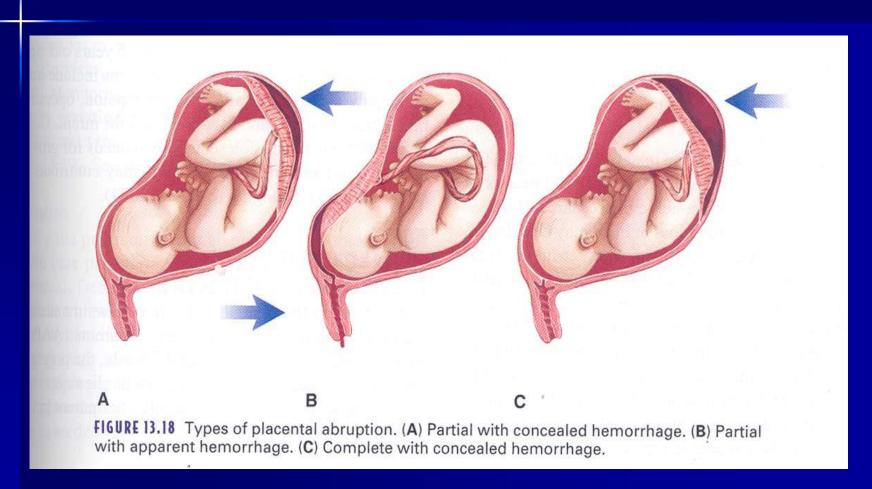
- Marginal separation
- Partial separation
- Complete separation with concealed hemorrhage

Sher's Classification - Abruption

- Grade I
- Mild, often identified at delivery with retroplacental clot
- **Grade II** Symptomatic, tender abdomen and live fetus
- **GradeIII** Severe, with fetal demise
 - -III A
 - -III B

- without coagulopathy (2/3)
- with coagulopathy (1/3)

Placental Abruption



Incidence of Abruption

- Most common cause of late pregnancy bleeding
- Occurs in 1 in 200 births
- 50% occur before 36 weeks
- 80% occur before the onset of labor
- Increased risk of maternal/fetal death
 - 10-30% neonatal mortality associated

Risk Factors of Abruption

- Chronic hypertension
- Multiparity
- Preeclampsia
- Advanced maternal age
- Previous abruption
- Short umbilical cord
- Sudden decompression of an overdistended uterus
- Thrombophilias
- **■** Tobacco, cocaine, or methamphetamine use
- Trauma
- Unexplained elevated maternal alpha fetoprotein level

Presentation

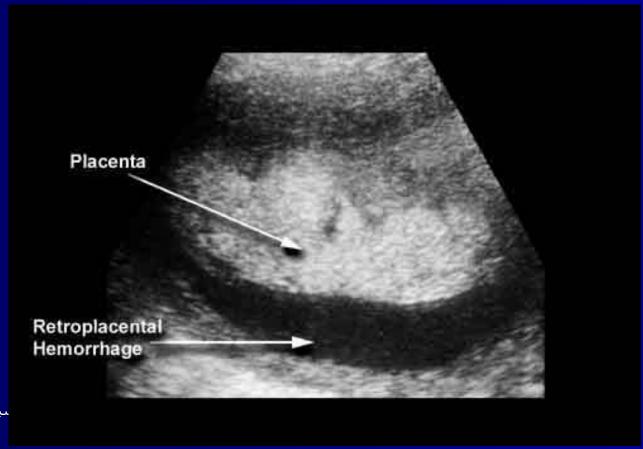
- Women often present with the following:
 - Painful vaginal bleeding
 - Bleeding may not be visible
 - Abdominal or back pain and uterine tenderness
 - Fetal distress
 - Abnormal uterine contractions (hypertonic, high frequency)
 - Idiopathic premature labor
 - Fetal death
- DIC may result from the release of thromboplastin into the maternal circulation with placental separation

Diagnosis

- Any pregnant woman who presents with significant vaginal bleeding needs evaluation
 - History and Physical
- Never do digital exam without knowing placental placement!
- Ultrasound will show abruption in 25% of cases
 - Often hard to distinguish clots on U/S
- Diagnosis is based on clinical picture once other causes have been excluded
- May not have definite diagnosis until clot or indentation is seen on placenta after deliveryین حسن-پور

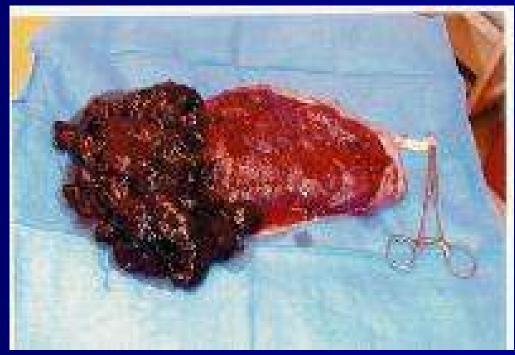
Diagnosis

And more....



Diagnosis

Placental abruption after delivery



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Complications

- DIC
- Postpartum haemorrhage
- Renal failure
- Sheehan syndrome
- Maternal mortality(1%)

Treatment — Grade II Abruption

- Assess fetal and maternal stability
- Amniotomy
- IUPC to detect elevated uterine tone
- Expeditious operative or vaginal delivery
- Maintain urine output > 30 cc/hr, hematocrit > 30%
- Prepare for neonatal resuscitation

Treatment – Grade III Abruption

- Assess mother for hemodynamic and coagulation status
- Vigorous replacement of fluid and blood products
- Vaginal delivery preferred, unless severe hemorrhage

Coagulopathy with Abruption

- Occurs in 1/3 of Grade III abruption
- Usually not seen if live fetus
- Etiologies: consumption, DIC
- Administer platelets, FFP

Abruption in a pregnancy of viable gestational age Unstable patient **Stabilize** Fetal distress and deliver C/Section **Fetal lung Expectant Deliver** maturity management سمینار دو روزه مرگ و میر مادران /۲۱-۲۰ مرداد ۸۹ 17 شپرين حسين-پور

Questions?



