Arabian Gulf University – Kingdom of Bahrain Year 5 – Gynecology and Obstetrics – 2nd Week

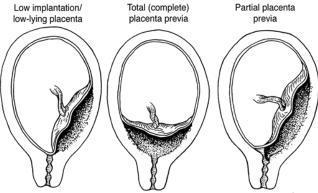
Salmanya Medical Complex – Dr. Abdulla Isa – Bleeding In Late Pregnancy



- Bleeding in early pregnancy (1st trimester):
 - Painless: threatened abortion.
 - **Painful**: inevitable abortion or ectopic pregnancy.
 - ✓ How to differentiate between abortion (miscarriage) and ectopic pregnancy?
 - ❖ *Miscarriage*: bleeding starts first (large amount with fresh clots) followed by pain.
 - ❖ Ectopic pregnancy: pain starts first followed by bleeding (dark brown blood).
- Bleeding in late pregnancy (3rd trimester):
 - Painless bleeding:
 - ✓ <u>Placenta previa</u>: in which the placenta is implanted in the lower segment of the uterus with different degrees of coverage of the internal os.

* There are grades of placenta previa:

Grade-I	The placenta is near the internal os but still not covering it
Grade-II	The placenta is partially covering the internal os
Grade-III	The placenta is completely covering the internal os



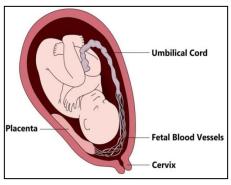
- \diamond Differential diagnosis of painless bleeding in 3^{rd} trimester of pregnancy:
 - Cervical polyp.
 - > Cervical erosion.
 - > Cervical cancer.
- * How to diagnose placenta previa?
 - ➤ Due to high parity in the middle-east, placenta previa is more common because intrauterine pressure is decreased.
 - ➤ History of the patient: painless vaginal bleeding.
 - ➤ Physical examination: abdomen is soft and relaxed; abnormal fetal lie (it will oblique or transverse because the lower uterine segment is occupied by the placenta). In addition, engagement will not occur.
 - ➤ Ultrasound is used to confirm your diagnosis. MRI will only be used in a female who had a cesarean section previously and is now having placenta previa (why?) → to know the level of invasion to the scar (accreta: only invading the endometrium; increta: reaching the myometrium; percreta: invading the uterine serosa or into the bladder).
 - ➤ Notice that in antepartum hemorrhage, you must never do bimanual vaginal examination!!

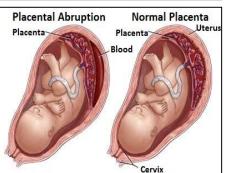
Management:

- ➤ Bed-rest.
- Non-stress test or biophysical profile (which includes the following five variables: fetal heart rate, fetal breathing, fetal movement, fetal tone and amniotic fluid index).
- ➤ Wait until term and deliver via cesarean section (if delivery is indicated before 34 weeks → administer corticosteroids).
- ✓ <u>Vasa previa</u>: where fetal vessels traverse the fetal membranes over the internal cervical os.
 - ❖ Etiology: These vessels may be from either a velamentous insertion of the umbilical cord or may be joining an accessory placental lobe to the main disk of the placenta. Rupture of these vessels result in fetal death.
 - Diagnosis: ultrasound with colorflow Doppler.
 - * *Management*: Immediate cesarean delivery of the fetus.



- ✓ <u>Placental</u> <u>abruption</u>: premature separation of a normally implanted placenta –with bleeding- before delivery of the fetus.
 - Degrees of placental abruption:





Mild (< 500 ml of blood)	 There are no hemodynamic changes in the mother It is important that you differentiate this condition from pre-term labour which is characterized by regular contractions and cervical dilation
Severe (500-1000 ml of blood)	 Characteristics: high pulse, pallor and tenderness over the abdomen This is the most dangerous obstetric emergency. A large cannula is placed in the femoral artery to push a high amount of blood. What to check: coagulation factors (because there is increased risk of DIC → if there is a problem in these factors → fresh frozen plasma is given), CBC and Rh

❖ *Management*: normal vaginal delivery unless bleeding is uncontrolled or there is fetal distress.