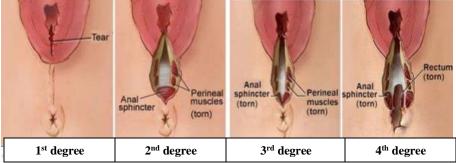
<u>Arabian Gulf University – Kingdom of Bahrain</u> Year 5 – Gynecology and Obstetrics – 3rd Week

Salmanya Medical Complex - Dr. Abdulla Isa - Post-Partum Hemorrhage

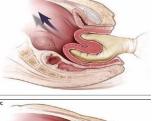


- 80% of pregnant ladies die due to post-partum hemorrhage.
- What is the definition of post-partum hemorrhage?
 - Blood loss > 500 ml following delivery of the baby.
 - **Practical definition**: any blood loss after delivery which adversely affects hemodynamic state of the mother (e.g. \pulse, \blood pressure).
- Classification of post-partum hemorrhage:
 - Primary (occurring within 24 hours after delivery).
 - ✓ What are the causes of primary post-partum hemorrhage?
 - ❖ Atonic uterus.
 - * Retained placenta/ tissue.
 - ❖ Trauma: lower and upper genital tract.
 - Coagulopathy.
 - Uterine over-distention.
 - Quick delivery: which might result in perineal tear.



- ✓ How to diagnose primary post-partum hemorrhage?
 - ❖ Vital signs: ↑pulse, ↓ blood pressure and bleeding is external.
 - ❖ Abdominal palpation: to check for atonic uterus.
 - ❖ If you do abdominal palpation and you find that uterus is contracted → you might suspect trauma.
 - \bullet If the uterus is not felt \rightarrow inversion.
 - Non-clotting blood → indicates the presence of a coagulation problem.
- ✓ Management of postpartum hemorrhage:
 - ❖ Do massage.
 - * Catheterize the urinary bladder.
 - ❖ Inject ergometrine IV or administer misoprostol rectally.
 - ❖ Start 5% dextrose and prepare blood.
 - ❖ Inject pethidine IM.
 - ➤ Then, examine the expelled products → if the uterus remains flabby → exploration under general anesthesia (see the image) → if it remains flabby → repeat ergometrine with oxytocin drip and cytotec → if all of this fails → internal iliac ligation and hysterectomy.
 - If the uterus is hard (traumatic) → exploration and saturating
 → if this fails → internal iliac ligation and hysterectomy.







• Secondary (occurring after 24 hours of delivery):

Case: a patient delivered in the hospital. After 72 hours, breast-feeding was started and she was discharged home. Hemorrhage started as soon as she arrived home thus she went back to emergency. They found that she is pale with \blood pressure and tachycardia (140 beats/minute).



- **❖** What is your initial management?
 - Placing her on IV drip.
 - > Taking blood to check for Hb, Rh and cross-matching.
 - ➤ If there is fever, blood culture will be done. If there is severe hemorrhage with septicemia, the patient will be treated with the following antibiotics: flagyl, ampicillin and gentamicin.
 - ➤ You have to check for DIC (fibringen, platelets, PT/PTT and D-dimer).
- ❖ What could be the possible causes of secondary post-partum hemorrhage?
 - > Retained cotelydons of placenta.
 - > Retained membranes.
 - \triangleright Choriocarcinoma: is you suspect it you must order chest x-ray and β-hCG.