





Interview Questions

Last menstrual period? (LMP)

- Was it normal?

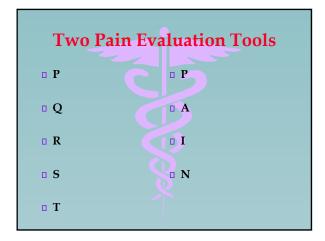
- Have you missed a period?

Could you be pregnant?Use of contraceptives

Is there any vaginal discharge?
 What color is it?

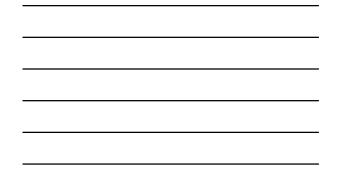
Is there any odors associated with it?

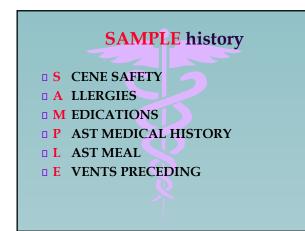










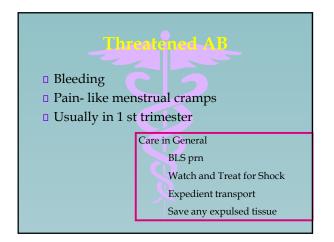






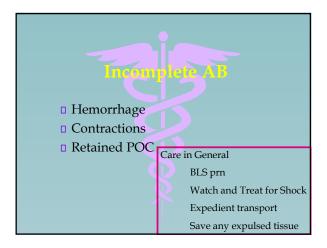
General Signs and Symptoms

- Patient suspects that she is pregnant
- Vaginal bleeding
- Menstrual like cramp pains in lower abdomen
- □ Passage of tissue & clots
- □ Uterus is non palpable
- Uterus is below the woman's umbilicus

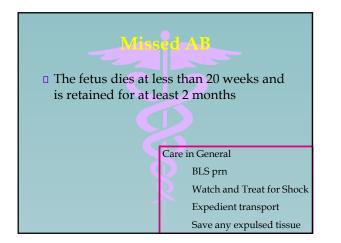














Preterm Labor

- PTL is defined as regular contractions producing cervical changes occurring between the 20th and 36th week of gestation
- Premature rupture of membranes (PROM)
 - The spontaneous rupture of the amniotic membrane before the onset of labor
 - Preterm PROM (P PROM) occurring prior to 37 weeks gestation

Stabilization

- Dehydration can cause contractions that mimic labor
- Give IV fluid bolous of 500-1000 cc on healthy patient and repeat prn
- Keep bladder empty –
 Foley prn
- Infection may cause contractions
 Consider antibiotics
- Avoid repeated vaginal exams unless pt. appears more active or c/o urge to have bowel movement or push
- Tocolytics

Pre Term Labor

- Uterine tocolytic therapy: 1) Nifedipine:
- 10 mg orally
- □ 2) Indomethacin (NSAID):
 - 50mg-100mg loading dose PO then 25 50mg Q 4-6 hours. Typically administered between 24-32 weeks gestation for only a 48 hour course;
- □ 3) Terbutaline:

om/h

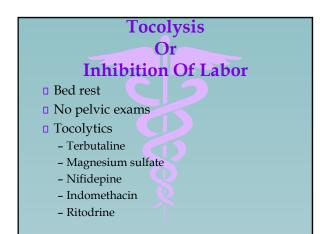
- 0.25mg SQ Q 20 minutes X 2 doses.
- □ 4) Magnesium sulfate:
 - 4-6 grams over 30 minutes followed by infusion of 2

Pre Term Labor

Fetal Protection Therapy

Magnesium Sulfate:

- Antenatal Steroids:
 - a) Betamethasone 12mg IM Q24 hours X 2 doses
 - b) Dexamethasone 6mg IM Q12 hours X 4 doses
- □ Broad spectrum antibiotics





Terbutaline

- Give initial IVP of 0.25 mg Terbutaline given over at least 1 min.
 - Alternatively:
 - 0.25 mg SQ q 20 min x 3 doses (SEMSA q 30 min)
- Then mix 5 mg of Terbutaline in 500 cc of D₅1/2NS and begin infusion at 60cc/hr = 10ug/min
 - Titrate up by 10ug/min q 20 min until contractions stop

 - Don't exceed 35ug/min unless MD orders specifically

Terbutaline

- 0.25 mg sq
- Repeat q 20 min x 3 doses
- □ Side effects:
- Jitterness, N & V, flushed feeling, tachycardia, palpitations, restlessness, lightheadedness
- Contraindications
 - Hold for maternal pulse >120, active bleeding, pulmonary edema,
- □ Antidote
 - Inderal 0.5 mg slow IVP, or
 - Verapamil 5-10 mg slow IVP

February 17, 2011 (UPDATED February 27, 2011) – Clinicians should not use injectable terbutaline to prevent preterm labor or treat it beyond 48 to 72 hours because of the risk for maternal heart problems and death, the US Food and Drug Administration (FDA) announced.

- In addition, oral terbutaline should not be used for the prevention or any treatment – acute or prolonged – of preterm labor because it shares the same safety risks as the injectable version and has not proven to be effective
- The FDA stated that the cardiovascular risks outweigh any potential benefit to pregnant women receiving injections of terbutaline on a prolonged basis, or any treatment with the tablet version of the drug.
- The American College of Obstetricians and Gynecologists also discourages the use of terbutaline for preventing preterm labor, the agency noted.

MgSO₄ for Tocolysis

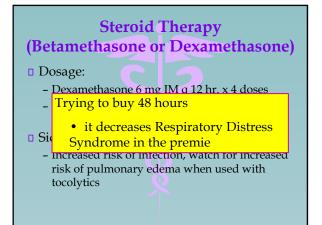
- Load with 4-6 gm of MgSO₄ mixed in 50cc of D₅W to run at 150cc/hr
- Then mix 20 gm of MgSO₄ in 500cc of NS to run at 50cc/hr = 2 gm/hr
 the range is 1-4 gm/hr
- Note:
 MgSO₄ can be given deep IM

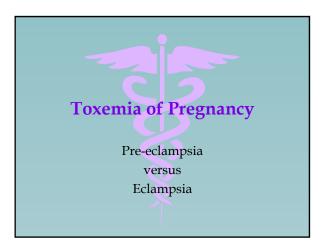
Magnesium Sulfate

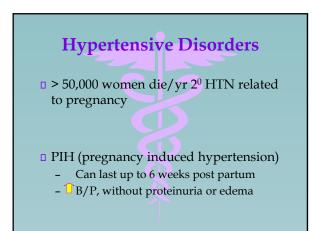
- Mix 50 gm in 500 cc D5W
 Load with 4-6 gm over 30 min. (lower dose for decreased renal clearance Maintenance dose = 2-4 gm/hr
- Side effects
 Flushing, sweating, N&V, drowsiness, weakness, visual disturbance, general muscular relaxation
- □ Therapeutic level = 4-7 mEq/L
- d/c for levels > 7 mEq/L
- Antidote: turn off MgSO4
 - 1 Gm Ca gluconate 10% over 3 min.
 - 1 gm CaCl 10% over 2-3 min.

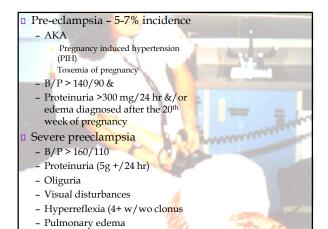
Prostaglandin Inhibitors (Indomethacin or Indocin)

- □ Used as a 2nd line tocolytic
- Dosage: 50-100 mg PO or PR, followed by 25-50 mg q 4-6 hr for 24-48 hours only
- Side effects
 - Premature closure of the ductus arteriosus and neonatal pulmonary hypertension if used longer than 48 hours
- Do not use after 32 weeks gestation













Preeclampsia with grand-mal seizures

- Defined as the occurrence of convulsions the pre-eclamptic woman
 - Cerebral edema and hypoxia are life threatening neurological complications
 - Pt's may lapse into coma with a mortality of 3-5%

May manifest up to 6 weeks post partum

Stabilization for Hypertensive Disorders in OB

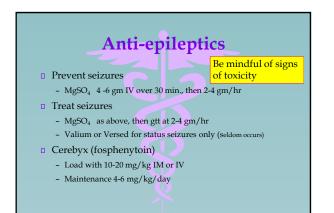
- □ Total IV fluids to < or = 100cc/hr
- □ Monitor B/P q 5-15 min.
- Monitor for S&S of Pulmonary edema

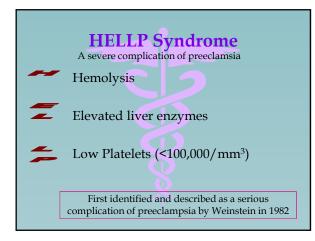
 Continous pulse Ox
- Foley catheter with urometer for hourly UOP
- Monitor DTRs, clonus, LOC hourly
- Continuous fetal monitoring
- Antihypertensives prn

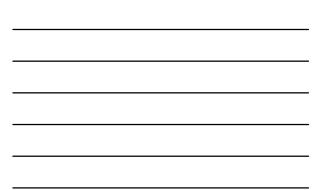
Emergency Treatment: Blood pressure Labetalol - (preferred now) 10 mg IVP over 2 min, then MR 20, 40, 80mg IVP q 10 min. Max 300 mg Hydralazine 2-5mg IVP initially give a 500 cc fluid bolus first! Target SB/P is 90-100 torr Bottoms the B/P out very easily 10 mg q 15-20 min. prn B/P >160/100 Torr

- Max dose 20 -(40mg) mg without results



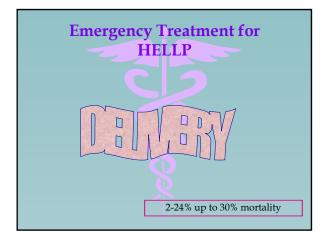


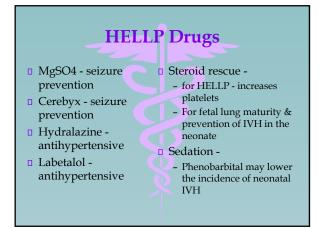




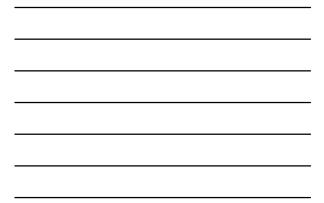
HELLP Symptoms

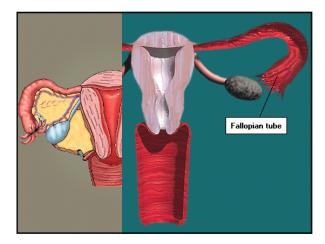
- □ Malaise, H/A (50% of the time)
- Epigastric pain
 - 90% of HELLP syndrome patients complain of RUQ pain
- Nausea & Vomiting
- Often mistaken for other medical conditions (gallbladder, liver ITP, hepatitis)
- 54% of patients have delays in diagnosis and errors in management











SIGNS & SYMPTOMS

- Low abdominal pain
- Vaginal spotting
- Missed menstrual period
- Referred shoulder pain
- Tender, distended abdomen
- Postural vital sign changes
- **Shock**

Emergency Care

- **ABC's**
- Treat for **SHOCK**
- This is a surgical emergency and **transport** is a must!





Birthing Complications

- Excessive hemorrhage
 - Placenta abruption
 - Placenta previa
 - Vasa previa
 - Trauma in pregnancyRuptured uterus
- Multiple births
 - Shoulder dystocia

- Prolapsed cord

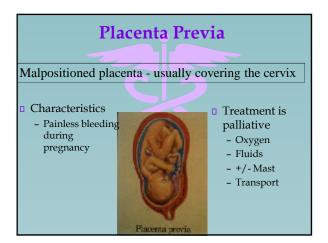
Delivery emergencies

Limb presentation

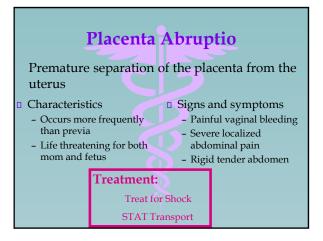
Breech birth

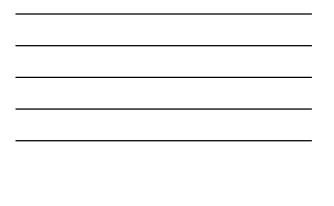
– Nuchal cord

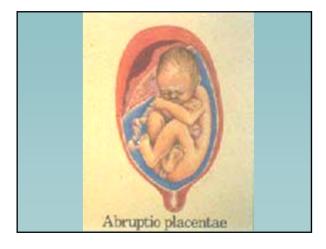


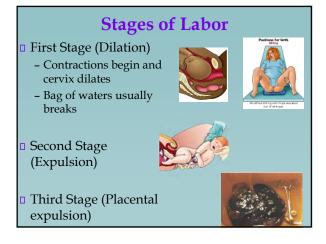








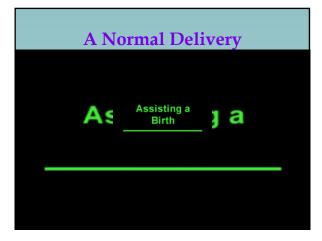






Pitocin

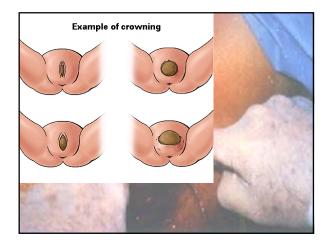
- Labor induction (10u/liter)
 - 0.001-0.002 units/min IV infusion
 - 6-120 cc/hr = 0.001-.02 u/min
- Postpartum bleeding
 - 20-40 units/liter of NS and titrate (w/o) to control uterine atony
 - SEMSA protocol is 20 u/L of NS to run at 500cc over 10-20 min, then 125cc/hr



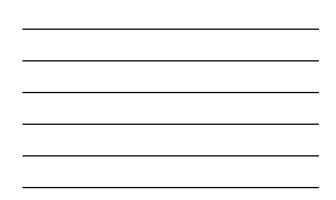








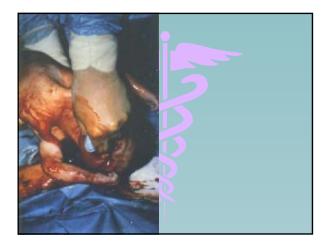






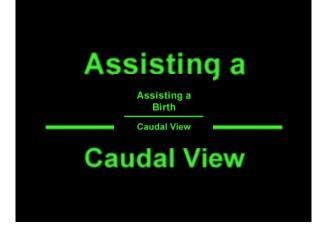






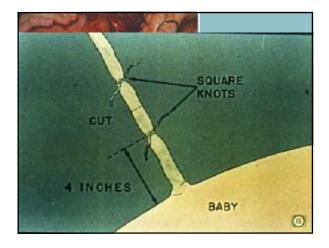








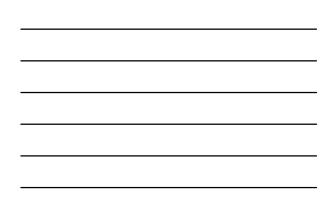














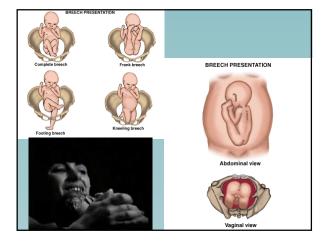


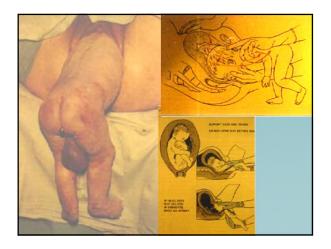
Sandberg method of assessing gestational age

- Measure from the pubis to the top of the fundus in centimeters (fingerbreaths)
 the # of cm's = the weeks of gestation

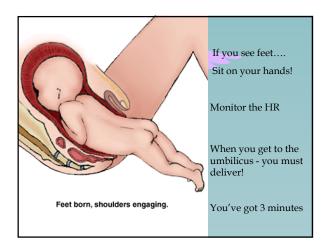
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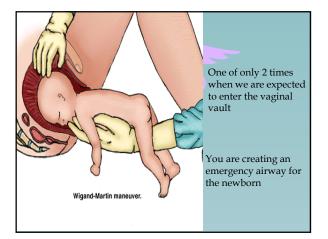


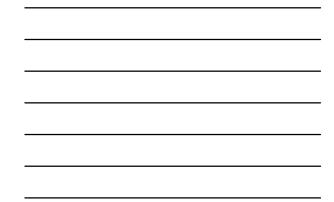


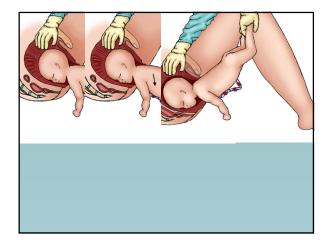




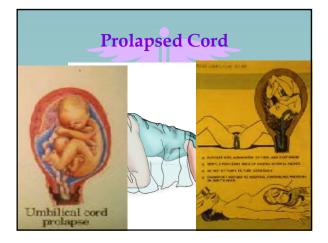




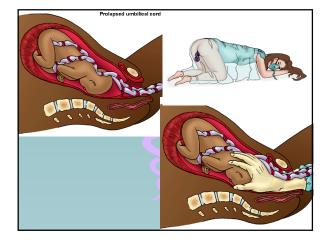


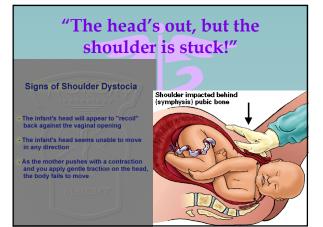


















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