

I. Labor and Delivery

A. Initiation of labor

- a. Changes in the estrogen-progesterone levels
 1. Progesterone decreases
 - A. Hormone of pregnancy (Higher level during pregnancy - Higher then estrogen)
 - B. But decreases after Labor
 2. Estrogen increases
 - A. Increases
- b. Prostaglandin levels increases
 1. Stimulate smooth muscle contractions
 2. Start late in the pregnancy
 3. Help with
 - A. Efface
 - B. Dilate

B. Premonitory Sign of Labor

- a. Cervical Changes
 1. Soften
 2. Dilate
 3. Effaced
- b. Lightening
 1. Dropping of Baby - lower portion
 2. ***They can now breath easily - Away from diaphragm
 3. 2 weeks before Term
 4. They can breath now but - Increase Urinary Frequency
- c. Increased Energy level "NESTING"
 1. Gets busy
 - A. Cleaning the house
 - B. Getting equipment needed for baby
 - C. Prepare the Nest for the Egg
 2. Happens 2-3 days before actual birth
 3. Due to decrease in progesterone
 4. Increase in Epinephrine
- d. Bloody Show
 1. Uterus starts to pass pink blood-tinge mucus
- e. Braxton Hicks Contraction
 1. Not effective
 2. Doesn't cause descending of the baby
 3. NOT Labor Contraction
 4. Irregular uterine contraction
- f. Increase Secretion - Vaginal
 1. Due to Increase in estrogen

C. ***This is the reason why mother comes in all the time

- a. Once a Week

Difference between True and False Labor

A. True Labor

- a. Becomes regular - stronger - longer
 1. As they progress they come closer together
- b. Contraction
 1. Intense when walking
- c. Pain -
 1. Starts - Lower Back ----> Radiating ----> Lower portion of the abdomen
- d. Cervix
 1. Softening and Effacing and Dilatation
- e. Blood Tinge discharge
 1. Passing of the mucus plug
- f. Spontaneous rupture of the membrane
- g. Presenting part begins to engage

B. False Labor

- a. Contraction -
 1. Stop when walking
- b. Pain
 1. Abdomen
 2. Above the umbilicus
- c. Cervix
 1. Soft but no significant changes
- d. Presenting part starts to engage

Stages and phases of Labor

A. Divided into four stages:

- a. Dilatation stage, expulsive stage, Placental stage, Restorative stage
 1. Dilatation stage
 - A. Dilate - 10cm at less
 2. Expulsive stage
 - A. Baby comes out
 3. Placental stage
 - A. Placenta comes out
 4. Restorative stage
 - A. Apprehensive about what happens - Watch carefully

B. First Stage of Labor

- a. Dilatation and Effacement of the cervix
- b. *Dilation*
 1. 0 -10 cm
- c. *Effacement*
 1. 0-100% effacement
- d. *Contraction*
 1. Regular
 2. Increases in
 - A. frequency, duration, strength
- e. **Phases of the First Labor**
 1. **Latent Phase**
 - A. Cervix
 - a. *Dilate* -
 1. 0 - 3 cm
 - b. *Effacement* -
 1. 0 - 40%
 - B. Contraction
 - a. Regular
 - b. Duration
 1. 5 -10 minute
 2. Last 30 - 45 second - Contraction

2. Active Phase

A. Cervix

- a. Dilate -
 1. 4 - 7 cm
- b. Effacement -
 1. 40 - 80%

B. Contraction

- a. Duration
 1. 2 - 5 minute mñgq-5
 2. Last 45 - 60 second - Contraction

C. Fundus

- a. Not Hard

D. Mood

- a. Feeling of helplessness

3. Transition Phase

A. Cervix

- a. Dilate -
 1. Complete @ 10 cm
- b. Effacement -
 1. Complete @ 100%

B. Contraction

- a. Duration
 1. Every 2 minute
 2. Last 60 - 90 second - Contraction

C. Mood

- a. Hostile - Significant other

C. Second Stage of Labor

a. **Expulsion Stage**

1. Begins with full dilatation of the Cervix -
 - A. Dilation - 10 cm
 - B. Effacement - 100%
2. Last till delivery of the baby
3. Objective Sign
 - A. Cervix - Fully Dilated - Fully Effaced
 - B. Sudden perspiration in the upper lips
 - C. Vomitting
 - D. Increasingly Restless
 - E. Involuntarily bearing down

D. Third Stage of Labor

a. **Placental Stage**

1. Begins with birth of the baby
 2. Ends with delivery of the placenta
- b. This is the time when you check if the placenta is intact
- c. Shultz side
1. Baby side - Smooth
 2. Shiny side
- d. Duncon side
1. Maternal Side - Endo
 2. Rough side
 3. Fleasy looking

E. Fourth stage of Labor

a. **Restorative**

1. Begins with expulsion of placenta
- b. Starts 1-4 hours after delivery of the placenta
- c. Important side
 1. Because of hemorrhage - Lost of FLuid
 2. Check for Gestational HTN
 3. Temperature might go up a bit

Factors affecting the labor Process (5 "P's")

A. Passageway

- a. "Birth Canal"
 1. Maternal pelvis
 2. Soft Tissue of the pelvis
 3. Pelvic floor
 4. Vagina
 5. Bone Pelvis
 - A. Assess during the I Trimester
 - a. Look up conjugate
 - B. Ilium
 - C. Ischium
 - D. Pubis
 - E. Sacral
 - F. Separated by a brim
 - a. From True pelvis
 - I. Inlet Cavity and Outlet
 6. Introitus
 - A. External opening of the vagina

B. Passenger

- a. Fetus
- b. Placenta
- c. Embryo
- d. Look up ATI - 129

C. Powers

- a. Type
 1. Primary
 - A. Involuntary uterine contraction
 - a. 1st Stage
 - I. Dilate and Efface the cervix
 - b. 2nd Stage
 - I. Descent of the Fetus and Placenta
 2. Secondary
 - A. Bearing down
 - a. Increases intra-abdominal pressure
 - I. Important in expulsion of the Fetus and Placenta

D. Position

- a. Affect adaptation to labor
 1. NSG - Help her
- b. Frequent Changes -- ****BETTER expulsion of Fetus****
 1. Improve Circulation
 2. Relieves Fatigue
 3. Increases Comfort
- c. Type of Delivery Position
 1. Squatting
 2. Side-Lying

E. Psychological Response

- a. How the women response to her whole experience in delivery
 1. Can impact delivery
 - A. Was it a good delivery?
 - B. No stress? or Stress?

Syllabus Page 13 - Bill

Congenital Anomalies

Covered in pediatric

Final - Intrapartum - Post-Partum - New - Born

Nursing Care During Labor and Birth

- A. Stressful time - Family - Self
- B. They need emotional support
 - a. Even how many babies
 - b. Even how young they are
 - c. Don't look down
- I. **General System Assessment**
 - A. Initial
 - a. Interview - Screening
 - b. Check Lab finding
 - c. Settled down in a bed
 - d. After initial Assessment
 - B. 2nd
 - a. VS
 - b. IV - Might be started soon
 - I. Rational - Don't know what will happen during the course of the labor
 - C. Culture
 - a. Respect any type of cultural - Tradition
 - b. Might ask for Placenta
 - I. Wrap it up - Give it to HER
 - c. If dangerous -
 - I. Do not
 - D. Physical -
 - a. Check
 - I. Water ruptured - yes - no
 - A. When did it happen?
 - a. If 24 hours or more - dangerous - Infection
 - I. Should have told her during pre-natal
 - b. Nitrozone paper - Test will determine
 - 2. Allergy
 - 3. Leopold's Maneuvers
 - A. To get the position of the Fetus
 - B. Determine number of Fetuses
 - C. Determine presenting part
 - D. Determine the Fetal lie and attitude
 - E. Determine amount of Fetal part (Presenting Part) that has descended into the pelvis
 - F. Where the PMI is - Fetal Heart Beat
 - 4. Fetal - IMPORTANT
 - A. Fetal Heart
 - a. Rate - Pattern
 - B. Fetal Monitor -
 - 5. Uterine Contraction

TEXTBOOK
Read 389-393 - Assessment

I. Augmentation of Labor

- A. Implemented in the management in hypo tonic uterine Contraction
 - a. Not as intense as it should be
- B. Non-Invasive
 - a. Empty the bladder
 - b. Ambulation
 - c. Position changes
 - d. Relaxation
 - e. Hydration
 - I. Hydro therapy
 - A. Augments Labor
 - f. *** IF DOESNT WORK ***
- C. Invasive
 - a. *Oxytocin (Mitocin)*
 - I. Infusion
 - 2. *Adverse Reaction*
 - A. If resting tone is - 20 mmHg
 - B. If contraction last more than 90 second
 - a. Occur more frequently then every 2 minute
 - C. May cause Rupture
 - 3. *Adverse Reaction - Fetal*
 - A. *Non-reassuring Fetal HR*
 - a. Check baseline
 - I. Absent Variability
 - 2. Late , Prolong Deceleration
 - B. *Intervention*
 - a. D/C - Oxytocin infusion
 - b. Keep I.V line open - **Even when Oxytocin infusion is stop**
 - c. Oxygen by Face Mask
 - I. 8L/min
 - d. Notify Physician / Mid-Wife
 - e. Fetal Heart Rate - Monitor
 - f. Uterine Contraction / activity - Monitored
 - I. Uterine Monitor Machine
 - b. Amniotomy
 - c. Nipple Stimulation
 - I. Increases the amount of Estrogen

HW:

Fetal Monitoring

Different Methods of Fetal Monitoring? - Normal Baseline

Fetal Heart Rate?

Fetal Tachycardia Rate?

Causes:

- Profound anemia in the mother
- Early Fetal Hypoxia
- Fetal Anemia
- Maternal Hypothyroidism
- Amnioitis
- Certain Drugs - Ritodrine , Terbutaline , Atropine

Fetal Bradycardia Rate?

Causes

- Fetal Hypoxia
- Maternal Hypotension
- Prolong Umbilical Cord Compression
- Fetal Arrhythmia
- Abruptio Placentae
- Uterine Rupture

Tuesday

Pre-Term Labor

Dystocia

Ineffective Response to labor ----> Birth

Cord prolapse

Causes Death in Baby - Cut of Blood Supplies

Post-Partum

Read 300+

Leopolds Maneuvers

Common Area

Fetal Heart Rate is Fast - heard