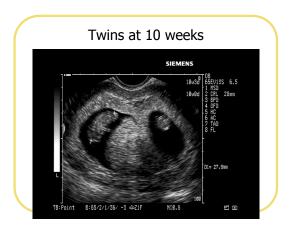
Labor and delivery

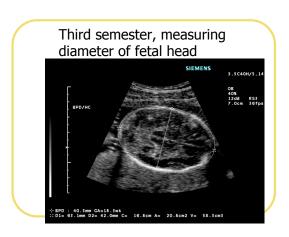
IIE 366: Developmental
Psychology
Greg Francis
Lecture 08













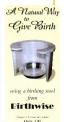
I. Historical Perspectives

- A. Who delivers? How? Where?
- B. Maternal and Infant Mortality

- Who? For most of recorded history, midwives.
- Obstetricians first became common in the 18th century.
- Who? For most of recorded history, midwives.
- How? Seated upright.



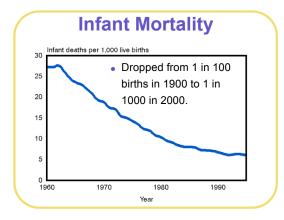


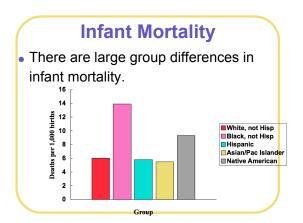


- Who? For most of recorded history, midwives.
- How? Seated upright.
- Where? At home.

Maternal Mortality

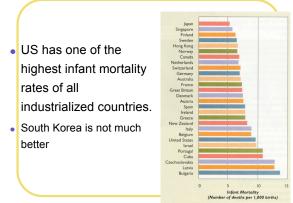
- In the early part of the 20th century, about 1 in 100 women died from complications of pregnancy or childbirth; 2nd most common cause of death in 15- to 45-year-old women.
- Much, much safer today: 1 in 100,000 women die from complications of pregnancy or childbirth.





Infant Mortality

- Dropped from 1 in 100 births in 1900 to 1 in 1000 in 2000.
- There are large group differences in infancy mortality.
- Rate is three times as high with no prenatal care.



II. Prelabor Events

- "Lightening" or engagement
- Rupture of membranes (water breaks)



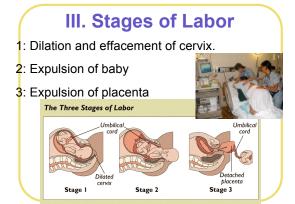
II. Prelabor Events

- "Lightening" or engagement
- Rupture of membranes
- · Loss of mucous plug



II. Prelabor Events

- "Lightening" or engagement
- Rupture of membranes
- Loss of mucous plug
- Weight loss
- Diarrhea
- Burst of energy

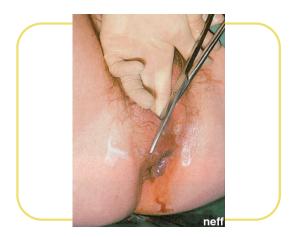


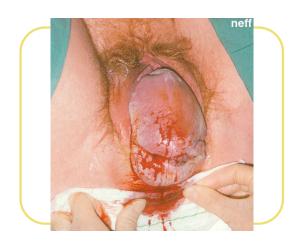
Stage 1 of Labor

- Latent phase: Can last up to 20 hours; cervix dilates to 5 cm.
- Accelerated or active phase: Usually lasts 2-4 hours, during which the cervix dilates from 5 to 8 cm.
- Transitional phase: Usually lasts 30-60 minutes; cervix finally dilates to 10 cm.
- Times vary enormously across women, but almost always faster after first birth.











IV. Controlling Pain

 Analgesics: medications that reduce pain, e.g., Demerol. Often used, but rapidly cross the placenta and affect the newborn, at least temporarily.

IV. Controlling Pain

- Analgesics
- Anesthetics: General is rarely used today but regional are common. Epidural: anesthetic injected in epidural space in backbone.



IV. Controlling Pain

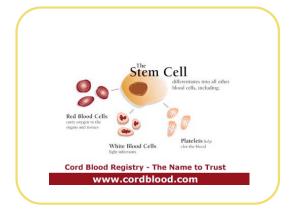
- Analgesics
- Anesthetics
- Childbirth preparation classes (e.g., Lamaze, Bradley) focus on reducing anxiety and ignoring pain, using breathing, imaging.





A new issue: saving cord blood

• Why? source of stem cells



A new issue: saving cord blood

- Why? source of stem cells
- Stem cells can be used for blood and bone marrow transplants used to treat leukemia and other blood or immunological diseases.
- No problem of donor match.
- Cost: \$1k start up, \$100 annually

Next time

Growth and health