

Objectives

Episiotomy and Vaginal Lacerations

Abortion---Spontaneous and Induced

- Ectopic Pregnancy
- ► Forceps
- Vacuum Extraction
- Cesarean Section
- VBAC

Episiotomy and Vaginal Lacerations

Midline Episiotomy

Lateral Episiotomy

Vaginal Lacerations

▶ First, Second, Third, Fourth Degree

Muscles of the Perineal Body

- Bulbocavernosus
- Transverse perineal
- Puborectalis
- External Anal Sphincter







SpontaneousInduced

Treatment

Suction curettage

D and C

Medical Intervention

Spontaneous Abortion

Spontaneous

- Threatened bleeding in early gestation
- Inevitable bleeding with contractions and dilation
- Incomplete products of conception partially passed
- Missed dead fetus retained without expulsion
- Septic-Fever over 100.4F due to infection (endo/parametritis-septicemia)

Spontaneous Abortion

• Etiology

- Developmental abnormality of zygote, embryo,fetus, placenta
- >50% degenerated or absent embryo (blighted ovum)
- 60% abnormal chromosomes (>30% of 2nd trimester Ab's)
- Hemorrhage into decidua basalis causes necrosis
- o Ovum detaches, stimulates contractions

Spontaneous Abortion

Treatment

Observation
Dilation and Curettage (D&C)
Vacuum Extraction (suction curettage)

Induced Abortion

- Rate: 238/1000 live births (60% in first 8 weeks, 88% iw/in 12 weeks)
- Outpatient centers up to 15 weeks
- Medical centers over 15 weeks

Induced Abortion

- Treatment Medical induction agents RU487, Estrogen/Progesterone, Dilatories
 - Menstrual aspiration
 - Dilation and Curettage
 - Dilation and Evacuation
 - Cervical dilation substances
 - Uterine stimulants
 - Partial Birth Abortion
 - Hysterotomy
 - Hysterectomy





Ectopic Pregnancy

Diagnosis

- Abnormal uterine bleeding
- Pelvic Pain
- Positive Pregnancy Test
- o Ultrasound



Ectopic Pregnancy

- Surgical Treatment
 - Laparoscopy, Laparotomy
- Medical Treatment
 - Methotrexate and others





Pelvic Types

Pelvic Types

Gynecoid, Android, Anthropoid, Platypoid





Android Pelvis



Pelvic Measurements









Mechanisms of Labor



- Descent
- Internal Rotation
- Extension
- External Rotation
- Explusion





Position of Fetal Head

- Descent---Head enters pelvic inlet in the transverse
- Head Rotates to AP (Internal Rotation)
 - in the Mid Plan
- Head is born by Extension



OP, LOP, ROP, ROT, LOT













Fetal Position



Position

- BOW must be ruptured
- Station
 - High Forceps >0 station
 - ► Mid Forceps> 0 +2
 - ► Low Forceps +3
 - Outlet Forceps

Indications:

- Prolonged 2nd stage of labor
- Progress has stopped
- Inability to push due to anesthesia/analgesia
- ► Fatigue
- Immanent delivery is desirable (FHT'S bleeding, etc.)

Go to Williams Obstetrics for forceps delivery video

Law of Forceps:

- Complete cervical dilations
- BOW has ruptured
- Position is known
- Vertex is engaged at +2 station or below

Trial of Forceps/Failed Forceps:

Anticipate difficult delivery with CS ready

 ACOG states: clinical assessment is highly suggestive of successful outcome

Emphasize proper training









Generally OK after 34 weeks gestation

Indications same as forceps

- Contraindications
 - Fetal Coagulopathy
 - Can't assess position
 - High station
 - Non vertex presentation
 - Suspect cephalic disproportion



Complications of vacuum extraction

- Cephalohematoma
- Scalp laceration
- Intercranial hemorrhage
- Neonatal jaundice
- ▶ 6th and 7th intercranial nerve damage
- Skull fracture

Same rules apply as forceps

- Used properly, no more incidence of fetal or maternal complications than spontaneous delivery
- Abandon procedure if no progress after 3rd contraction or if cap dislodges > 3 times

- Contraindications
- Fetal coagulopathy
- Inability to assess position
- High station
- Non vertex presentation
- Suspect cephalo-pelvic disproportion







Comparison of Forceps/Vacuum

- IQ tested at age 17- no difference between spontaneous delivery, vacuum or forceps
- FDA showed 5% skull fracture in nulliparous woman with over 3 pulls or "pop-offs".
- Forceps causes more 3rd and 4th degree lacerations
- Vacuum causes more retinal hemorrhages (no long term effects)
- Vacuum causes less maternal damage, more fetal trauma

C-Sections

Percentages of deliveries via C-Section

- 31% (15-16% primigravidas)
- Indications for section
 - Repeat C-Section
 - Cephalo pelvic Disproportion (CPD)
 - Failure to progress---due to fetal size, maternal soft tissues, power of uterine contractions (UC's), pelvic size
 - Nonreassuring fetal heart tones
 - Malpresentation
 - Shoulder dystocia
 - Pre eclampsia/Eclampsia
 - Obesity
 - Older age of parturiants
 - Decrease in VBAC
 - Legal

C-Sections (cont)

Additional Indications for a C Section

- Medical problems—i.e. DM, Heart, Renal, Vascular
- Decrease in VBAC (TOLAC=trial of labor after CS)
- Cord prolapse
- Valuable Baby syndrome
- Elective
- Legal considerations







Types of C-Sections

- Classical Incision
- Low Classical
- Low Transverse Incision









VBAC

- Vaginal Birth after C-Section (TOLAC)
- Success Rate:
 - After CPD
 - After Malpresentation
 - After Bleeding Disorder
 - Current Controversy (New Mexico 80% To 90% due to restrictions requiring fully equipped OR for immediate CS)
 - ACOG and ASA



