Cord presentation &prolapse



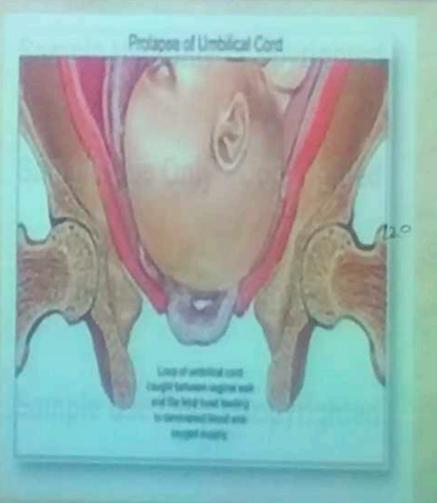
Cord Presentation Membranes Intact



Cord Prolapse Membranes Ruptured 120

Cord presentation vs. Cord prolapse





INCIDENCE

- Over all incidence 0.1% -0.6%
- Primi gravida 0.4 %
- Multi gravida 0.6 %
- Cephalic presentation 0.3 %
- Breech Frank 0.9 %
 - Complete 5 %
 - Footling 10 %
- Shoulder presentation 15 %
- Contracted pelvis 4-6 times more.

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- Non engagement of fetal head:
- 1. Unengaged or poorly applied presenting part
- 2. High parity weak muscles
- 3. Unstable lie weak muscles
- 4. Malpresentations
- 5. Breech presentations

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- Related to Uterine and Pelvic factors:
 - 1. Polyhydramnios
 - 2. Long umbilical cord
 - 3. Low lying placenta
 - 4. Contracted Pelvis

- Related to Fetal factors:
- 1. Prematurity
- 2. Low Birth Weight
- 3. Second twin
- 4. Congenital malformations

- Related to clinical procedures:
 - 1. ARM in high presenting part
 - 2. External cephalic version
 - 3. Stabilizing induction of labor
 - 4. Manual rotation of fetal head in OP position
 - 5. Application of fetal scalp electrode
 - 6. Internal podalic version of second twin

COMPLICATIONS:

- Neonatal morbidity and Mortality as high as 50 % due to
- 1. Hypoxia is due to cord compression by the presenting part and also due to vasospasm of umbilical vessels
- 2. Operative trauma
- 3. Delay in transport
- 4. Congenital malformations
- 5. Prematurity
- Maternal morbidity:

DIAGNOSIS

- Overt cord can be seen in the vagina or outside the vagina- feel pulsations
- Variable deceleration and bradycardia on CTG following rupture of membranes.
- Fetal bradycardia following fundal pressure
- Meconium stained liquor

PREVENTION

- Ultrasound examination for malpresentation and cord presentation.
- Avoid ARM in unengaged head
- Routinely doing PVE following spontaneous rupture of membranes.
- Controlled ARM in poly hydramnios -Stabilizing induction.
- Bradycardia and variable decelerations do either vaginal examination or speculum examination

MANAGEMENT

- Depends upon viability of the fetus and absence of fetal malformations.
- Quick action should be taken to expedite the delivery.
- Survival of fetus depends on swift action Prepare for Emergency interventions like Cesarean section and or Instrumental delivery.
- Multidisciplinary approach or Team work is required

MANAGEMENT

- Discontinue IV oxytocin infusion
- Oxygen by mask 15 lits/ mt
- CORD C call for help
 - 0 organize for delivery
 - R Relieve pressure
 - D Delivery

Funic repositioning: with soaked warm saline reposition into vagina

ELEVATING THE PRESENTING PART

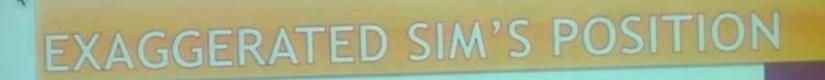
- Avoid presenting part pressure over cord by digital or manual pressure.
- Instruct the patient to not to exert pressure or pushing.
- Bladder filling with 500 700 ml of saline.
 - Tocolysis? Inj. Terbutaline 250 microgams SCly
 - Positioning of the patient:
 - 1. Knee chest position
 - 2. Trendelenburg position
 - 3. Exaggerated Sims or lateral position

Knee chest position



TRENDELENBURG POSITION

Trendelenburg Position



A glowed hand a see vagina pushes the fetus upward or off the cord.

Knee-chest position uses generity to shift the letus cut of the police. The woman's tright should be at right angles to the bed and her chest flat on the bed.

The woman's hips are stevested with two pillower this is often combined with the Trendstenburg (head down) posters.

DO'S AND DON'TS

Do's -

- Replace the cord into the vagina to prevent from vasospasm with saline soaked pad
- Continuous monitoring of FHR
- Inform the patient
- Minimal handling of cord

Don'ts -

Replace inside the uterus

Excessive handling of the cord.



- Knee chest face down position
- Bladder filling with saline
- In Ambulance left lateral position
- Manual elevation if a nurse or family physician there
- Urgent transfer to center with cesarean facilities and neonatal care.

- Extreme prematurity with cord prolapse:
- 1. Below or around 24 weeks counsel the patient.

If she wishes to continue pregnancy if FHR is normal and patient willing for up to 3 weeks

If patient does not agree allow for vaginal delivery with or without oxytocin infusion

FETAL MORTALITY

- @ Overall 50 %
- First stage of labor 75 %
- Second stage 50 %
- Neonatal death 4 %
- Perinatal mortality 20 %
- Asphyxia Hypoxic ischaemic encaephlopathy
 Cerebral palsy

PROGNOSIS

- Good with vertex presentation than Breech.
- Good in Primigravida than in multi.