# **Caesarean Birth**







# **Ensuring appropriate indication for CB**

### **Avoid unnecessary CB:**

- Good midwifery care in labour (partogram)
- Adequate trial of labour in primigravidas
- External cephalic version for breech
- Avoid induction for uncertain post-term
- Vacuum extraction availability and skills
- Second opinion for decision for CS

### **Pre-operative assessment**

- Read the patient's file before you start
- Consent includes Hysterectomy as well as Blood transfusion
- Blood and FDP available in hospital
- WHO Surgical safety check-list: assess bleeding risk and confirm pre-op Hb
- Check whether additional procedures to be done eg IUCD, TL
- Most senior surgeon on site to do CS when predict difficulty.
- Doctor providing anaesthesia must be able to perform General as well as Spinal anaesthesia

# Appropriate drugs for CD: prophylactic antibiotics

- Antibiotics should be given to every woman undergoing CD before the first incision is made
- Routinely only 1 dose of prophylactic antibiotics is required
- A first generation cephalosporin is recommended. The dose can be adjusted according to the patient's weight: (eg cefazolin 1g for <60kg, 2g for 61 to 100kg, 3g for >100kg)
- For women having CD in labour or after rupture of membranes, add azithromycin 500mg iv
- For women with penicillin allergy use clindamycin 600mg iv instead of cefazolin
- NB: If choriamnionitis present, therapeutic antibiotics required for 5 days

# **Preventing blood loss**

- Take your time don't rush
- Diathermy for connective tissue bleeding
- Identify and restore anatomy
- Ensure adequate exposure
- Identify round ligaments
- Careful delivery baby.
- CCT for placenta, ensure uterus empty
- Deliver uterus for inspection/closure?
- Secure uterine angles of incision before closure
- Prophylactic oxytocin bolus plus infusion

#### **Bleeding At Caesarean Delivery**



#### **Uterine Compression Suture – (B-Lynch)**





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#### **Stepwise Devascularisation of The Uterus**



# **Foley Catheter Tourniquet**



For district hospitals – intraop transfer for hysterectomy at higher level

# **Postoperative Care After CS**

- Write clear notes of operation including assessment blood loss
- Describe surgical difficulties
- Write up oxytocin 20 units in 1 L IV fluid for the first 8 hours (?Heat stable carbetocin?)
- Write up post-op orders or refer to protocol
- High care/refer if massive blood loss (Discuss with senior)

### Department of Health's Early Warning Chart

Haemodynamic changes (low **BP**, fast HR) may be the first sign of concealed internal bleeding



#### **Bleeding After Caesarean Delivery**



### **VAGINAL BIRTH AFTER CAESAREAN BIRTH**

Concern: Women with a previous CD are at risk for ruptured uterus during labour.

#### Requisites

- Antenatal care for a woman with one previous CD may be conducted at a clinic or community health centre, but labour must be managed in hospital with continuous CTG and 24-hour theatre facilities.
- A doctor should preferably see the mother at the first antenatal visit (to review the history) and again at 36 weeks (to plan the mode of delivery).
- The woman must have reliable transport if she chooses to VBAC; or stay in a maternity waiting home close to the hospital to await the onset of labour

#### **Exclusions for VBAC**

- a previous vertical uterine incision (classical scar or any scar that extends into upper segment)
- previous ruptured uterus
- previous caesarean delivery for a very preterm baby, type of incision unknown
- two or more previous caesarean deliveries
- where the mother requests an elective CD after appropriate counselling
- other obstetric problems, e.g. multiple pregnancy, breech, transverse lie
- an estimated fetal weight >3500 g or a SF of 40 cm or more at term. (relative contraindication)
- maternal BMI> 40 kg/m2 (relative contraindication)

# Management of VBAC

Management is similar to normal labour with the following precautions:

- run an intravenous drip with one litre Sodium Chloride 0,9% at 80-120 mL/hour
- pass a urinary catheter to monitor urinary excretion
- monitor with continuous CTG
- always use a partogram (do two hourly vaginal examinations once in active labour) and intervene timeously
- do not augment labour with oxytocin
- observe carefully for signs of imminent uterine rupture and do an emergency CD immediately if rupture is suspected (any of the following signs): *fetal tachycardia or fetal heart rate decelerations,*

significant vaginal bleeding, macroscopic haematuria, strong abdominal pain between contractions or pain over the scar, sudden cessation of contractions change in maternal vital signs

. Obtain prior consent for hysterectomy, should this become necessary