Management of Normal Labor

Management of Normal Labour

Aims

- 1. To achieve delivery of a normal healthy child with minimal physical and psychological maternal effects.
- 2. Early anticipation, recognition and management of any abnormalities during labour course

I STAGE OF LABOUR

PRINCIPLES

- 1. Non-interference with watchful expectancy so as to prepare the patient for natural birth.
- 2. To monitor carefully the progress of labor, maternal conditions and fetal behavior so as to detect any intrapartum complication early.



History:

- 1. Complete obstetric history
- 2. History of present pregnancy
- 3. History of present labor

Examination

- a. General examination
- b. Abdominal examination
- c. Pelvic examination/ Vaginal examination

Investigations:

If not done before or if indicated:

- Blood group-Rh typing.
- Urine for albumin and sugar.
- Hb%.
- Ultrasonography

First stage of Labor Procedures

General]
Bowel	}
Rest and ambulation]
Diet)
Bladder care]
Relief of pain)
Assessment of mother and fetus and Partograph recording)

GENERAL

- Antiseptic dressing are as described before
- Encouragement, emotional support and assurance
- Constant supervision is ensured.

BOWEL

An enema with soap and water or glycerine suppository is traditionally given in early stage.

BLADDER CARE

- Patient is encouraged to pass urine
- Full bladder often inhibits uterine contraction and may lead to infection.
- If cannot go to the toilet, give bed pan.
- If the patient fails to pass urine, catheterization is to be done.

DIET

- Food withheld during active labor
- (There is delayed emptying of the stomach in labor. Low pH of the gastric contents is a real danger if aspirated following general anesthesia)
- Fluids in the form of plain water, ice chips or fruit juice may be given in early labor.
- Intravenous fluid with ringer solution is started where any intervention is anticipated

REST AND AMBULATION

- Patient is allowed to walk during the early first stage particularly with intact membranes.
- If rest is needed the patient lies on her left lateral position.

RELIEF OF PAIN

Pharmacological and non pharmacological measures

ASSESSMENT OF MOTHER AND FETUS AND PARTOGRAPH RECORDING

THE MOTHER:

1. General

- Pulse every 30 minutes
- Blood pressure every 1 hours
- Temperature every 2 hours.
- Urine ouput volume, protein or acetone.
- Any drug (oxytocin or other)

2. Abdominal palpation

- a) Uterine contractions: The number of contractions in 10 minutes and duration of each contraction in seconds are recorded in the partograph
- b) Pelvic grip: Gradual disappearance of poles of the head (sinciput and occiput) which were felt previously
- c) Shifting of the maximal intensity of the fetal heart beat downwards and medially.

3. Vaginal examination

- a) Dilatation of the cervix
- b) Position of the head and degree of flexion
- c) Station of the head
- d) Color of the liquor
- e) Degree of moulding of the head

THE FOETUS

- FHR every 15 minutes
- Continuous electronic fetal monitoring

II STAGE OF LABOUR

Management of second stage

- The transition from the first stage to the second stage is evidenced by the following features:
- a) Increasing intensity of uterine contractions
- b) Appearance of bearing down efforts
- c) Urge to defecate with descent of the presenting part
- d) Complete dilatation of the cervix

Management of second stage PRINCIPLES

- 1. To assist in the natural expulsion of the fetus slowly and steadily
- 2. To prevent perineal injuries.

Preparation for delivery

- 1. The patient is transferred on a wheel or trolley to the delivery room.
- 2. Put her in the lithotomy position.
- 3. The lower abdomen, upper parts of the thighs, vulva and perineum are swabbed with antiseptic lotion.
- 4. Sterile legs and towels are applied.

Conduction of delivery

Delivery of the head

Delivery of the shoulders

Delivery of the trunk

Immediate care of newborn

DELIVERY OF THE HEAD

The principles to be followed are to maintain flexion of the head, to prevent its early extension and to regulate its slow escape out of the vulval outlet.

- The patient is encouraged for the bearing down efforts during uterine contractions.
- When the scalp is visible for about 5 cm in diameter, flexion of the head is maintained during contractions.

• The flexion of the head is maintained by pushing the chin with the right hand placed over the anococcygeal region while the left hand exerts pressure on the occiput (Ritzen maneuver)



- Flexion of the head should be maintained till crowning
- The purpose of increasing the flexion of the head is to ensure that the small suboccipito-frontal diameter 10 cm distends the vulval outlet instead of larger occipitofrontal diameter 11.5 cm

• When the perineum is fully stretched and threatens to tear specially in primigravidae, episiotomy is done at this stage after prior infiltration with 10 mL of 1% lignocaine.



Care following delivery of the head

- The mucus and blood in the mouth and pharynx are to be wiped with sterile gauze piece or a mucous sucker
- The eyelids are then wiped with sterile dry cotton swabs
- The neck is then palpated to exclude the presence of any loop of cord

DELIVERY OF THE SHOULDERS

Gentle downward traction is applied to the head till the anterior shoulder slips under the symphysis pubis. The head is lifted upwards to deliver the posterior shoulder first then downwards to deliver the anterior shoulder.



DELIVERY OF THE TRUNK

Usually slips without difficulty otherwise gentle traction is applied to complete delivery.

IMMEDIATE CARE OF NEWBORN

- 1. Baby should be placed on a tray covered with clean dry linen with the head slightly downwards.
- 2. Air passage (oropharynx) should be cleared of mucus and liquor by gentle suction.
- 3. Apgar rating at 1 minute and at 5 minutes is to be recorded.

- 4. Clamping and ligature of the cord
- The cord is clamped by two Kocher's forceps, the near one is placed 5 cm away from the umbilicus and is cut in between
- Delay in clamping for 2–3 minutes or till cessation of the cord pulsation facilitates transfer of 80-100 mL blood from the compressed placenta to a baby when placed below the level of uterus.

Delayed clamping is contraindicated in

- a) Pre-term or a low birth weight baby Hypervolemia
- b) Rh-incompatibility

To prevent antibody transfer from the mother to the baby

- a) Babies born asphyxiated or one of a diabetic mother.
- 5. Put an identification band

III STAGE OF LABOUR
Management of III stage of labour

EXPECTANT MANAGEMENT

ACTIVE MANAGEMENT

Management of III stage of labour Expectant management



Management of III stage of labour Expectant management continued...



Management of III stage of labour Active Management



Management of III stage of labour Active Management continued



IV STAGE OF LABOUR

Fourth Stage of Labour

• Observation for the patient particularly atony of the uterus and vaginal bleeding.

- 1. Transfer the mother from the delivery table to the recovery room
- 2. Provide perineal care
- 3. Ensure emergency equipments are available
- 4. Check the fundus
- ✤ 1st hour- every 15 minutes
- ✤ 2nd hour- every 30 minutes
- Thereafter hourly

- 6. Document lochia
- ✤ 1st hour- every 15 minutes
- ✤ 2nd hour- every 30 minutes
- Thereafter hourly
- 7. Observe the mother for chills
- 8. Monitor vital signs and general condition

- 9. Observe urinary bladder for distension **Characteristics**
- Bulging of the lower abdomen
- Spongy feeling mass between the fundus and the pubis
- Displaced uterus
- Increased lochia
- ≻ Full bladder can cause PPH
- \succ Nerve blocks may alter the sensation
- If possible ambulate the patient to bathroom

10.evaluate the perineal area for signs of developing edema or hematoma

Causes

- Prolonged second stage
- Delivery of a large infant
- Rapid delivery
- Forceps delivery
- Fourth degree lacerations

Edema

- Apply ice pack
- Advice sitz bath
- Bladder distension

Hematoma

- Discolouration
- Severe pain
- Edema

- Feeling to defecate due to pressure over rectal muscles
- Check sensitivity to the area

- Small hematomas (< 3 cm) are left to resolve on their own—ice packs may be applied
- Large hematomas (> 3 cm) may require evacuation of the blood and ligation of the bleeding vessel
- Analgesics and broad-spectrum antibiotics may be ordered due to increased chance of infection

- 11.Observe for signs of hemorrhage12.Assess for ambulatory stability13.Nutrition management
- 14.Initiate breastfeeding