Obstetrical Emergencies

Purpose: To provide the process for the assessment and management of the patient with an obstetrical related emergency.

Pre-Medical Control

MFR/EMT/SPECIALIST/PARAMEDIC

1. Follow **General Pre-hospital Care Protocol**
2. Assessment Information
   - A. History:
     - a. Past Medical History: previous births, previous complications
     - b. Current History: duration of gestation (weeks), whether single or multiple births are expected.
   - B. Specific Objective Findings: vital signs, assess contractions
   - C. Determine whether to transport or remain at scene due to imminent delivery. Indications of impending imminent delivery may include:
     - a. Multiple pregnancy, strong regular contractions, every 2 minutes or less; ruptured membrane, bloody show, need to push or bear down, crowning
3. General Management
   - A. Utilize universal precautions
   - B. Evaluate and maintain airway, provide oxygen and support ventilation as needed.

SPECIALIST/PARAMEDIC

- C. Obtain vascular access, if time permits.

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4. Management of Normal Delivery
   - A. Have oxygen and suction readily available for care of the newborn.
   - B. **If signs of newborn delivery are imminent, and there is no time to transport, prepare for delivery.**
     - a. Try to find a place for maximum privacy and cleanliness.
     - b. Position patient on back, on stretcher if time permits or on bed.
       1. Monitor patient for signs of hypotension. If signs develop, position patient so weight of uterus is to patient's left side.
     - c. Drape if possible, using clean sheets.
     - d. Encourage mother to relax and take slow deep breaths through her mouth.
     - e. Reassure her throughout procedure.
     - f. As baby's head begins to emerge from vagina, support it gently with hand and towel to prevent an explosive delivery.
       1. If practical, mouth and nose should be suctioned.
     - g. After head is delivered look and feel to see if cord is wrapped around baby's neck.
       1. **If the cord is around neck and loose**, slide gently – over the head **DO NOT TUG.**
       2. **If the cord is around neck and snug**, clamp the cord with 2 clamps and cut between the clamps.

h. As the shoulders deliver, carefully hold and support the head and shoulders as the body delivers, usually very suddenly – and the baby is very slippery! **Note the time of delivery**.
i. Place the baby on its side with head lower than the body and **gently** suction mouth and then nose making sure the airway is clear.
j. Prevent heat loss.
   1. Place baby in warm environment
   2. Dry baby off and remove all wet linen.
k. Evaluate respirations
   1. **If the baby does not breathe spontaneously**, stimulate by gently rubbing its back or slapping the soles of its feet. If still no response, initiate ventilation with 100% high flow oxygen per **Pediatric Newborn Assessment, Treatment and Resuscitation Protocol.**
   2. If spontaneous breathing begins, administer oxygen for a few minutes until baby's color is pink.
l. When infant is delivered and breathing normally, cord should be tied or clamped 8 inches from the infant with 2 clamps (ties) placed 2 inches apart. Cut the cord between the clamps, and assure that no bleeding occurs.
   1. If child is being resuscitated or is in distress, the cord may be cut and clamped and kept moist with a small dressing. (In case Umbilical Vein IV is needed.)
m. Score APGAR at one minute and five minutes after delivery. Refer to **Pediatric Newborn Assessment, Treatment and Resuscitation Protocol** if APGAR is less than 6.
n. When delivery of baby is complete, prepare for immediate transport. Placenta can be delivered in route or at the hospital
o. Delivery of placenta generally takes place within 20 minutes.
p. Following placental delivery, massage the uterus to aid in contraction of the uterus.
q. Place placenta in basin or plastic bag and transport with mother.

EMT/SPECIALIST/PARAMEDIC

r. Contact Medical Control.

SPECIALIST/PARAMEDIC

5. If there is visible meconium in the airway,
   A. The patient should be intubated and the lower airway suctioned via ET tube [with LOW PRESSURE (80-120 mmHg) suction to the tube]
   B. Repeat suction with a new ET tube each time suctioning is performed.

MFR/EMT/SPECIALIST/PARAMEDIC

6. Abnormal Deliveries
   A. Contact Medical Control as soon as appropriate.
   B. **Breech position**
      a. Allow buttocks and trunk to deliver spontaneously.

b. Once legs are clear, support body on the palm of your hand and service of your arm, allowing head to deliver.
c. If the head doesn't deliver immediately, transport rapidly to the hospital with mother's buttocks elevated on pillows with baby's airway maintained throughout transfer.
1. Place **gloved** hand in the vagina with your palm towards the baby's face. Form a "V" with your fingers on either side of the baby's nose and push the vaginal wall away from baby's face until the head is delivered.

C. **Prolapsed Cord – Life Threatening Condition**
a. Place mother in a supine position with hips supported on a pillow.
b. Evaluate and maintain airway, provide oxygen.
c. **With sterile gloved hand, gently push** the baby up the vagina several inches to release pressure on the cord.
d. **DO NOT ATEMPT TO PUSH CORD BACK!**
e. Transport maintaining pressure on baby's head.

D. **Arm or limb presentation – Life threatening condition**.
a. Immediate transportation
b. Delivery should not be attempted outside the hospital.
c. Place mother in position of comfort or with hips elevated on pillow.
d. Evaluate and maintain airway, provide oxygen.

E. **Multiple births**
a. Immediate transportation
b. Multiple birth infants are typically small birth weight and will need careful management to maintain body heat.
c. After first infant is delivered, clamp cord and proceed through airway, drying and warming procedures while awaiting delivery of other births, (See steps 3a.)
d. Prepare additional supplies for subsequent births.
e. There may be time to transport between births.

7. **Pre-eclampsia/Eclampsia**

A. Signs of preeclampsia
a. BP 160/110 or higher
b. Marked peripheral edema
c. Diminished level of consciousness
d. Seizure (eclampsia)

B. Immediate transport

PARAMEDIC

C. If seizure occurs, administer Magnesium sulfate,1 gm/minute IV until seizure stops (dosage: 2-4 gm)

<u>Post-Medical Control</u>
PARAMEDIC

D. If seizure persists, administer additional Magnesium sulfate 2 gms IVP.
E. Per MCA selection administer additional Diazepam or Midazolam or Lorazepam.

Benzodiazepine Options
(Choose One)

- [x] Diazepam 2 - 10 mg (0.1 mg/kg) IV/IO or 2 – 10 mg (0.5 mg/kg) rectally
  OR
- [ ] Midazolam 2 - 5 mg (0.05 mg/kg) IV/IO/IM
  OR
- [ ] Lorazepam 1 – 4 mg (0.1 mg/kg) IV/IO

MFR/EMT/SPECIALIST/PARAMEDIC

APGAR Scoring

1. Procedure for immediately evaluating a newborn baby.
   A. Based on:
      a. A – appearance (color)
      b. P – pulse (heart rate)
      c. G – grimace (reflex irritability to slap on sole of foot)
      d. A – activity (muscle tone)
      e. R – respiration (respiratory effort)
2. Each parameter gets a score of 0 to 2.
3. APGAR score should be checked at 1 minutes and 5 minutes post delivery.

APGAR SCORING

Sign	0	1	2
Appearance – skin color	Bluish or paleness	Pink or ruddy; hands or feet are blue	Pink or ruddy; entire body
Pulse – heart rate	Absent	Below 100	Over 100
Grimace – reflex irritability to foot slap	No response	Crying; some motion	Crying; vigorous
Activity – muscle tone	Limp	Some flexion of extremities	Active; good motion in extremities
Respiratory effort	Absent	Slow and Irregular	Normal; crying