EMS Services

PRE-HOSPITAL CARE

MEDICAL CONTROL

PROTOCOLS AND PROCEDURES
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**CHILDBIRTH / OBSTETRICAL EMERGENCIES**

**ABNORMAL BIRTH EMERGENCIES**

### UNIVERSAL PATIENT CARE PROTOCOL

- **CORD AROUND NECK**
  - Loosen cord or clamp and cut if too tight
  - Continue Delivery

- **PROLAPSED CORD**
  - Transport
  - Mother with hips elevated and knees to chest
  - Insert fingers to relieve pressure on cord if presenting part of the infant is compressing the cord

- **BREECH BIRTH**
  - Transport unless delivery is imminent
  - Do not encourage mother to push
  - Support but do not pull presenting parts

- **SHOULDER DYSTOCIA**
  - Transport
  - Mother with knees to chest
  - If delivery does not occur, transport immediately
  - Place pressure on symphysis pubis
  - If delivery is in process and the head is clamped inside vagina, create air passage by supporting body of infant and placing 2 fingers along sides of nose, and push away from face to facilitate an airway passage
  - If unable to deliver, transport mother with knees to chest.

**CONTACT MEDICAL CONTROL**

**TRANSPORT**
Abnormal Birth Emergencies

Contact Medical Direction Immediately
When Any Abnormal Birth Presentation Is Discovered

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<th>Signs and Symptoms</th>
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General Considerations:

- Do not pull on any presenting body parts.
- These patients will most likely require a c-section, so immediate transport is needed.
- Prolonged, non-progressive labor distresses the fetus and mother. Be sure to reassess mother’s vital signs continuously.

Cord Around Baby's Neck:

- As baby's head passes out the vaginal opening, feel for the cord. Initially try to slip cord over baby’s head; if too tight, clamp cord in two places and cut between clamps.

Breech Delivery:

- Footling Breech, which is one or both feet delivered first
- Frank Breech, which is the buttocks first presentation
- Feet or buttocks first become visible, there is normally time to transport patient to nearest facility.
- If upper thighs or the buttock have come out of the vagina, delivery is imminent.
- If the child's body has delivered and the head appears caught in the vagina, the EMT must support the child's body and insert two fingers into the vagina along the child's neck until the chin is located. At this point, the two fingers should be placed between the chin and the vaginal canal and then advanced past the mouth and nose.
- After achieving this position, a passage for air must be created by pushing the vaginal canal away from the child's face. This air passage must be maintained until the child is completely delivered.

Excessive Bleeding Pre-Delivery:

- If bleeding is excessive during this time and delivery is imminent, in addition to normal delivery procedures, the EMT should use the hypovolemic shock protocol.
- If delivery is not imminent, patient should be transported on her left side and shock protocol followed.

Excessive Bleeding Post-Delivery:

- If bleeding appears to be excessive, start IV of saline. Follow HYPOVOLEMIC SHOCK PROTOCOL.
- If placenta has been delivered, massage uterus and put baby to mother's breast.

Prolapsed Cord:

- When the umbilical cord passes through the vagina and is exposed, the EMT should check cord for a pulse.
- The patient should be transported with hips elevated or in the knee chest position and a moist dressing around cord.
- If umbilical cord prolapsed, insert two fingers to elevate presenting part away from cord, distribute pressure evenly when occlipt presents.
- Do not attempt to push the cord back. High flow oxygen and transport IMMEDIATELY.

Shoulder Dystocia:

- Following delivery of the head the shoulder(s) become “stuck” behind the symphisis pubis or sacrum of the mother.
- Occurs in approximately 1% of births.
CHILDBIRTH / OBSTETRICAL EMERGENCIES

OBSTETRICAL EMERGENCIES

UNIVERSAL PATIENT CARE PROTOCOL

MONITOR / IV PROTOCOL

Vaginal Bleeding / Abdominal Pain?

No

Hypertension?

Yes

Mild Pre-eclampsia – (BP greater than 140/90, Peripheral Edema)
Severe Pre-eclampsia – (BP greater than 140/90, Edema, Headache, Visual Disturbances)

Eclampsia – Seizures – other signs absent

If patient actively seizing, give 4 grams of Magnesium Sulfate in 10 mL NS IV over 2 – 3 minutes

Call Med Control for Valium Order

Quiet Rapid transport

Yes

Known Pregnancy / Missed Period?

Yes

1st Trimester – Miscarriage, Ectopic Pregnancy
2nd & 3rd Trimester – Placenta Previa
Abruptio Placenta

Transport

No

Other Abdominal Pain?

See Protocol

Transport

Yes

NORMAL SALINE IV, as needed

Pad bleeding, save and bring with patient

Childbirth / Imminent Delivery Protocol

Rapid Transport

CONTACT MEDICAL CONTROL

TRANSPORT

Southwest General Health Center / EMS Services
### OBSTETRICAL EMERGENCIES

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<td>Past medical history</td>
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<td>Pre-eclampsia / Eclampsia</td>
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<td>Hypertension meds</td>
<td>Abdominal pain</td>
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<td>Prenatal care</td>
<td>Edema of hands and face</td>
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<td>Prior pregnancies / births</td>
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<td>Spontaneous abortion</td>
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<tr>
<td>Gravida / Para</td>
<td>Severe headache</td>
<td></td>
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<tr>
<td></td>
<td>Visual changes</td>
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### GENERAL CONSIDERATIONS:

- **Exam:** Mental Status, Abdomen, Heart, Lungs, Neuro

**General Information:**
- May place patient in a left lateral position to minimize risk of supine hypotensive syndrome.
- Ask patient to quantify bleeding - number of pads used per hour.
- Any pregnant patient involved in a MVC should be seen immediately by a physician for evaluation and fetal monitoring.
- DO NOT apply packing to the vagina.
- Be alert for fluid overload when administering fluids.
- Consider starting a second IV if the patient is experiencing excessive vaginal bleeding or hypotension.
- Transport to an appropriate OB facility if the patient is pregnant.

### Abortion / Miscarriage:
- The patient may be complaining of cramping, nausea, and vomiting.
- Be sure to gather any expelled tissue and transport it to the receiving facility.
- Signs of infection may not be present if the abortion / miscarriage was recent.
- An abortion is any pregnancy that fails to survive over 20 weeks. When it occurs naturally, it is commonly called a “miscarriage”.

### Post Partum Hemorrhage:
- Post partum blood loss greater than 300-500 mL
- Bright red vaginal bleeding
- Be alert for shock and hypotension

### Abruptio Placenta:
- Usually occurs after 20 weeks.
- Dark red vaginal bleeding.
- May only experience internal bleeding.
- May complain of a “tearing” abdominal pain.

### Uterine Inversion:
- The uterine tissue presents from the vaginal canal
- Be alert for vaginal bleeding and shock

### Ectopic Pregnancy:
- The patient may have missed a menstrual period or had a positive pregnancy test.
- Acute unilateral lower abdominal pain that may radiate to the shoulder.
- Any female of childbearing age complaining of abdominal pain is considered to have an ectopic pregnancy until proven otherwise.

### Pre-Eclampsia / Eclampsia:
- Severe headache, vision changes, or RUQ pain may indicate pre- eclampsia.
- In the setting of pregnancy, hypertension is defined as a BP greater than 140 systolic and greater than 90 diastolic, or a relative increase of 30 systolic and 20 diastolic from the patient’s normal (pre-pregnancy) blood pressure.

### Pelvic Inflammatory Disease:
- Be tactful when questioning the patient to prevent embarrassment.
- Diffuse back pain.
- Possibly lower abdominal pain.
- Pain during intercourse.
- Nausea, vomiting, or fever.
- Vaginal discharge.
- May walk with an altered gait due to abdominal pain.

### Pre-Partum Hemorrhage:
- Often caused by prolonged, obstructed, or non-progressive labor.
- Severe abdominal pain

### Vaginal Bleeding:
- If the patient is experiencing vaginal bleeding, DO NOT
| Painless bright red vaginal bleeding. | Pack the vagina, pad on outside only |
CHILDBIRTH / OBSTETRICAL EMERGENCIES

UNCOMPLICATED DELIVERY

Contact Medical Control to Notify of Delivery

Observe Head Crowning

UNIVERSAL PATIENT CARE PROTOCOL

Prepare Patient for Delivery
Set-up Equipment / administer 100% O₂

IV Protocol if time
Run Normal Saline at 150 mL/hr

Delivery of Head
Firm, gentle pressure with flat of hand to slow expulsion
Allow head to rotate normally, check for cord around neck, wipe face free of debris
*Suction mouth and nose with bulb syringe

Delivery of Body
Place one palm over each ear. With next contraction, gently move head downward until upper shoulder appears. Then lift up gently to ease out lower shoulder.
Support the head and neck with one hand and buttocks with other.
REMEMBER THE NEWBORN IS SLIPPERY!

Newborn and Cord
Keep newborn at level of vaginal opening. Keep warm and dry. After 10 seconds, clamp cord in two places with sterile equipment at least 6 – 8” from newborn. Cut between clamps. DO NOT PULL ON THE CORD TO DELIVER the placenta. Allow placenta to deliver itself, do not delay transport. Take the placenta to the hospital with the patient.

Care of the Newborn

Temperature: (warm and dry) Airway: (position and suction)
Breathing: (stimulate to cry) Circulation: (heart rate and color)
1) Assess babies response to birth and administer care as needed.
2) Position, clear airway, stimulate to breathe by drying and give O₂ as needed.
3) Establish effective ventilation with bag and mask, intubation.
4) Provide chest compression.
5) Administer medications.
6) Assign APGAR score 1 min and 5 min after birth.

CONTACT MEDICAL CONTROL

TRANSPORT
**UNCOMPLICATED DELIVERY**

**CONTACT MEDICAL DIRECTION IMMEDIATELY WHEN DELIVERY IS IMMINENT**

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<th>Signs and Symptoms</th>
<th>Differential Diagnosis</th>
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<tr>
<td>Due date</td>
<td>Spasmotic pain</td>
<td>Abnormal presentation</td>
</tr>
<tr>
<td>Time contractions started / how often</td>
<td>Vaginal discharge or bleeding</td>
<td>Buttock</td>
</tr>
<tr>
<td>Rupture of membranes</td>
<td>Crowning or urge to push</td>
<td>Foot</td>
</tr>
<tr>
<td>Time / amount of any vaginal bleeding</td>
<td>Meconium</td>
<td>Hand</td>
</tr>
<tr>
<td>Sensation of fetal activity</td>
<td>Left lateral position</td>
<td>Prolapsed cord</td>
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<tr>
<td>Past medical and delivery history</td>
<td>Inspect perineum</td>
<td>Placenta previa</td>
</tr>
<tr>
<td>Medications</td>
<td>(No digital vaginal exam)</td>
<td>Abruptio placenta</td>
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**GENERAL CONSIDERATIONS:**

- Exam (of Mother): Mental Status, Heart, Lungs, Abdomen, Neuro
- Document all times (delivery, contraction frequency, and length).
- If maternal seizures occur, refer to the Obstetrical Emergencies Protocol.
- After delivery, massaging the uterus (lower abdomen) will promote uterine contraction and help to control post-partum bleeding.
- Some perineal bleeding is normal with any childbirth. Large quantities of blood or free bleeding are abnormal.
- If delivery becomes imminent, prepare to deliver and protect mother’s privacy if possible (stop the squad and prepare for delivery).
- Newborns are very slippery, so be careful not to drop the baby.
- There is no need to wait on scene to deliver the placenta.
- If possible, transport between deliveries if the mother is expecting twins.
- Allow the placenta to deliver, but DO NOT delay transport while waiting.
- **DO NOT PULL ON THE UMBILICAL CORD WHILE PLACENTA IS DELIVERING.**