GMVEMSC PREHOSPITAL EMT STANDING ORDERS TRAINING MANUAL VERSION June 1, 2020

Adult: Patients 16 Years Old and Above

Pediatric: Patients under 16 Years Old All Pediatric Treatments will be in Pink and Bulleted with a "P"

ADULT and PEDIATRIC ORDERS INDEX

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STIPULATIONS

- This protocol is for use by those individuals operating in and under the authority of the Greater Miami Valley EMS Council (GMVEMSC) Drug Bag Exchange Program and certified by the State of Ohio as an Emergency Medical Technician (EMT). You may not use new protocol until you have passed both the skills check-off and CBT.
- This protocol is to be used in the field only. Communications must be attempted as soon as practical for potentially unstable patients, or for hospitals that request contact on all patients being transferred to their facility.
- Procedures that are marked with a diamond (♦) are never to be performed without a Medical Control Physician (MCP) order. The diamond provides rapid identification of procedures and medications that require on-line MCP authorization.
- No procedures, techniques, or drugs will be used without the proper equipment, or beyond the training or capabilities of the prehospital personnel. Nothing in this protocol may be used without specific pre-approval of the Medical Director for the local department or agency.
- Items enclosed in braces ({ }) are at the option of the department and its Medical Director.
- EMS personnel of any level are not authorized to insert an advanced airway unless they have and use appropriate confirmation devices such as EtCO₂ detectors or monitors.
- Any patient in respiratory distress on oxygen or whose O₂ saturation indicate a need for oxygen, shall remain on oxygen until care is transferred to the hospital.
- Infrequently, stepwise adherence to specific protocols may not be in the patient's best interest. No protocol can substitute for the EMS professional's judgment. However, at no time should treatment options exceed those authorized without direct consultation with Medical Control. In all such cases, contact with Medical Control should be considered as soon as possible.
- The Adult and Pediatric Orders ("Peds") have been combined.
- A Sections that apply only to Adults are bulleted with an "A."
- **P** All Pediatric treatments will be in Pink and bulleted with a "P."
- Sections which apply to both Adult and Peds are indicated with standard bullets.
- **G** Sections which apply only to Geriatric patients and are bulleted with a bold "G."

COMMUNICATING WITH HOSPITAL OR MEDICAL CONTROL

- There are several reasons to contact the hospital.
 - o To notify the hospital when time is needed to set-up for the patient. Examples include major trauma, cardiac arrest, hazardous materials, bedbugs, and Cardiac or Stroke Alerts.
 - Contact all hospitals with all serious patients, e.g., stroke, MI, respiratory distress, shock and major traumas.
 - To obtain orders, such as for procedures or medications indicated by the diamond (♦) in these Standing Orders
 - o To obtain advice, for example, guidance from the MCP might be needed before a medication is given, even though Standing Orders allow it to be used without permission. Another situation might be a patient with an unfamiliar condition.
- When contacting the hospital, make sure a clear picture is painted. The crew can see the patient; the hospital personnel cannot. The ability to communicate findings will directly impact the hospital's response.
- When calling about a trauma patient, include MIVT, ETA, the components of the GCS, and patient assessment findings, especially those relevant to the decision to transport to a Trauma Center.
- If consultation with a physician is desired, specifically request Medical Control Physician.
- EMTs must call the hospital whenever they transmit an EKG.
- When calling with an alert (Trauma or Stroke) say, "We recommend a ______ Alert."
- Remember that the hospital may have more information, and may or may not decide to act on your recommended alert. Examples:
 - o Patients who meet Trauma Destination Protocols do NOT always warrant the hospital calling in a surgical team immediately.
 - o A patient who meets Cardiac Alert criteria may have prior EKGs in their hospital record that indicate that the alert is unnecessary.
- Every crew transporting a patient is expected to provide a completed run sheet to the hospital upon delivery or within 3 hours.

NON-INITIATION OF CARE

NOTE: 1. ADULT & PEDIATRIC PATIENTS MAY MEET NON-INITIATION OF CARE CRITERIA.

2. If care had begun and it is readily apparent to EMS that the patient meets non-initiation of care criteria, RESUSCITATION EFFORTS MAY CEASE.

Non-Initiation of Care

- Resuscitation will not be initiated in the following circumstances:
 - o Deep, penetrating, cranial injuries
 - o Massive truncal wounds
 - o DNR Order—present and valid
 - Frozen body
 - o Rigor mortis, tissue decomposition, or severe dependent lividity
 - Triage demands
 - For patients in arrest resulting from BLUNT OR PENATRATING TRAUMA consider not initiating care for injuries obviously incompatible with life (Consider possibility of MIXED MECHANISMS.)
 - o Prolonged arrest (greater than 10 minutes)
 - Exclusionary Conditions:
 - Traumatic arrest in female patient with known pregnancy >24 weeks or with uterine fundus palpable at or above the umbilicus – rapid transport to nearest Emergency Department while continuing to treat patient. Manually displace the uterus to the left.
 - Possible medical etiology

- Arrest is witnessed by EMS
- Lightning
- Hypothermia
- Focused blunt trauma to the chest, ex. a baseball to the chest (commotio cordis; responds to defib)

NOTE: Any requests about organ donations have them call, "Life Connection of Ohio" @ 800-535-9206.

DNR: COMFORT CARE and COMFORT CARE ARREST

Do Not Resuscitate-Comfort Care (DNR-CC)

• Permits any medical treatment to diminish pain or discomfort that is not used to postpone the patient's death.

Do Not Resuscitate-Comfort Care Arrest (DNR-CCA)

• Permits any and all protocol-based treatment until the patient goes into cardiac or respiratory arrest.

Once the DNR is activated:

- The following treatments are permitted:
 - o Conduct an Initial Assessment
 - o Perform basic medical care
 - Clear airway of obstruction or Suctioning
 - o If necessary, for comfort or to relieve distress, may administer oxygen, CPAP
 - o If possible, may contact other appropriate health care providers
- The following treatments are **not** permitted:
 - o Perform CPR
 - Insert an airway adjunct
 - Defibrillation
 - o Initiate continuous cardiac monitoring

Conflicts between orders:

- A living will that is operative (as above) supersedes a durable power of attorney for health care
- If more than one living will declaration or DNR exists, the most recent supersedes the previous.
- The authority of a DPOA-HC supersedes the DNR if the DPOA-HC previously consented to the DNR

INITIAL CARE

- Follow basic life support and airway algorithms as indicated based on current AHA Guidelines.
- Obtain chief complaint (OPQRST, see Abdominal Pain), SAMPLE history and vitals per patient condition:
 - o SAMPLE: Signs and Symptoms, Allergies, Medications, Past medical history, Last oral intake, Events leading up to present illness or injury.
- IN medication administration must be via Mucosal Atomizer Device (MAD).
- Utilize monitoring devices pulse oximeter, etc. as appropriate.
- An unresponsive patient with gasping breaths and poor color should get supplemental oxygen via BVM
- Bring medications or a list of the medications; include the dose and frequency of administration.

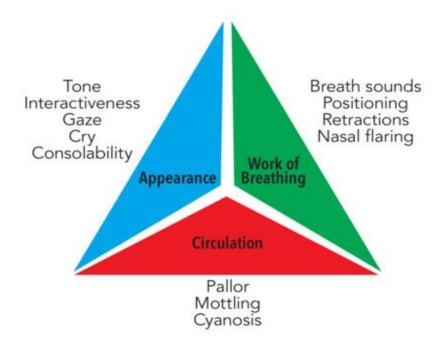
NOTE: A Pedi reference guide or length-based resuscitation tape may be used to reference pediatric vital signs.

NOTE: Oral glucose is indicated for any conscious but disoriented patient with BS < 60, or a strong suspicion of hypoglycemia despite blood sugar readings. Oral glucose may also be administered carefully under the tongue or between the gum and cheek of an unresponsive patient who must be placed in the lateral recumbent position to promote drainage of secretions away from the airway.

NOTE: For patients with an insulin pump and a glucose < 60, treat the hypoglycemia. Take extra tubing and medication packets to receiving facility with patient.

• Patient care should proceed by ensuring airway protection, oxygenation, and adequate ventilation without causing harm. Injury reduction strategies may include noninvasive ventilation when appropriate, titration of oxygen in certain settings, and being cautious not to over ventilate. You should tailor treatment to the overall clinical picture. With the exception of suspected acute cerebral herniation, the rate and depth of ventilation in the prehospital setting should not be guided by the EtCO₂ reading alone. For the patient with cerebral herniation, ventilate the patient at 20 times per minute to obtain an end tidal value of 30 mmHg. Doing so acutely can result in over ventilation leading to pneumothorax, barotrauma, breath stacking, hypotension, and compromised hemodynamics. "Permissive hypercapnia" in most cases is appropriate particularly in those with chronic lung disease who may chronically retain CO₂. Listening to the chest to ensure that adequate exhalation is occurring during manual ventilation is recommended.

The PAT Triangle



- P The Pediatric Assessment Triangle establishes a level of severity, assists in determining urgency for life support measures, and identifies key physiological problems using observational & listening skills.
- P Appearance reflects adequacy of: oxygenation ventilation, brain perfusion, CNS function
- P One mnemonic used for pediatric assessment is: TICLS.
 - o Tone- Moves spontaneously, sits or stands (age appropriate)
 - o Interaction- Alert, interacts with environment
 - o Consolability- Stops crying with comfort measures (holding, warmth, distraction)
 - Look/gaze Makes eye contact with clinician, tracks objects
 - Speech/cry Uses age appropriate speech or crying
- P **Breathing**-Work of breathing is a more accurate indicator of oxygenation and ventilation than respiratory rate or breath sounds (standards used in adults)
- P Circulation reflects adequacy of cardiac output and perfusion of vital organs (core perfusion).
- P **Cyanosis** reflects decreased oxygen levels in arterial blood, vasoconstriction and respiratory failure.
- P **Mottling** of the skin indicates hypoxemia, vasoconstriction and respiratory failure.

SPINAL MOTION RESTRICTION (SMR)

Introduction

Traditionally, EMS has immobilized all patients with *potential* spinal injury to include backboards and associated adjuncts (B/AA). However, studies indicate that traditional spinal restriction with B/AA has risks and may even cause harm in select cases. SMR has been modified to more accurately reflect appropriate indications and methods for spinal restriction. Spinal precautions for at risk patients remain paramount. This protocol does not indicate that EMS no longer immobilizes the spine; it simply provides a different means of restriction in selected patients.

Blunt trauma (falls, MVC)

- 1. All patients with clinical indications of a spinal injury (such as focal neurologic deficit including paralysis) and or with altered levels of consciousness (including those who are combative, confused, or intoxicated, i.e. patients who are unable to follow commands) must be immobilized with both a C-collar <u>and</u> a spinal restriction device (e.g., spine board, KED, vacuum splint).
- 2. Additionally pediatric trauma patients less than 3 years of age with a GCS of < 15 must be immobilized with both a C-collar and a spinal restriction device (e.g. spine board, KED).
- 3. Other alert trauma patients, including all those listed below, should have a c-collar placed and moved with caution in-line as a unit to the cot. This does not mean on a BB.
 - Neck pain
 - Midline neck or spinal tenderness
 - Pain on motion of the neck
 - High risk mechanism (high speed MVC, fall > 10 feet, axial loading injury)

Penetrating Trauma

- Patients with penetrating trauma do not need to be immobilized with either a c-collar or BB.
- Delays in transport are to be minimized.

Airway or Ventilatory Management

Patients who are immobilized and require airway and or ventilatory intervention (including intubation) may have the collar removed with in-line stabilization performed during the intervention. The collar should then be reapplied.

Other

- Patients who do not tolerate restriction (e.g., shortness of breath, anxiety, and body habitus) should have restriction adjusted to the point of removal if necessary based on clinical response. They should be maintained in the manner of restriction that they can tolerate (e.g., a patient may not tolerate a backboard but may tolerate sitting up with a c-collar).
- Spinal restriction devices may be utilized for movement from a site of injury to the cot. Patients who do not require restriction as above should be removed from the device prior to transport and kept in-line during transport. This is referred to as, "Move patients on hard things; transport on soft things."

Sporting Injuries

• In an emergency situation with equipment intensive sports such as football, hockey and lacrosse, the protective equipment shall be removed prior to transport to an emergency facility.

SPINAL MOTION RESTRICTION (SMR)

How should I determine the level of Spinal Motion Restriction for potential spinal injury?

Potential spinal injury may come from: high risk MOI including high speed MVC, falls > 10 ft., axial load injuries and blunt force above the shoulders

Full Spinal Motion Restriction

- Patients with GCS < 15 including confusion and intoxication
- Patients with altered LOC
- Patients with neurologic deficits including paralysis, or clinical indications of a spinal injury
- Patients < 3 y/o with GCS < 15

C-Collar and move in-line to cot

• Patients with neck pain, midline neck tenderness, pain on motion of the neck that have a GCS of 15

Patients Not Requiring SMR

- Penetrating trauma
- Pts not falling into the other two conditions

EXCEPTIONS

- Patients who require airway or ventilatory intervention may have the c-collar removed with inline stabilization during the intervention
- Patients who do not tolerate restriction should have it adjusted to the point of removal if necessary

AIRWAY MAINTENANCE

- O_2 as needed. Use the following rates as guidelines:
 - o **2 LPM by nasal cannula (NC)** for patients with COPD, or as prescribed.
 - o **4-6 LPM by NC** for other patients
 - 12-15 LPM by non-rebreather mask (NRM) for severe trauma patients, distressed cardiac patients, patients with respiratory distress, especially one with pale moist skin and altered mental status, and patients who appear to need high flow O₂.
- Ventilate symptomatic patients who have insufficient respiratory rate or depth.

RESPIRATORY RATES BY AGE

| Up to 1 year | 30-60 | 7-9 years | 16-24 |
|--------------|-------|-------------|-------|
| 1-3 years | 20-40 | 10-14 years | 16-20 |
| 4-6 years | 20-30 | 15+ years | 12-20 |

NOTE: COPD patients in severe respiratory distress or with chest pain need the same O_2 devices and flow rates as any other patient in such condition.

- Consider patient airway anatomy and condition for proper airway adjunct selection.
- EMTs are permitted to suction tracheostomies.
- **A** If approved, adjuncts considered "rescue airways" such as the Supraglottic Airways or Dual Lumen Airways may be appropriate primary airway devices.
- **P** Supraglottic airway is recommended as the primary airway except in extreme cases such as airway edema.
- Confirm correct placement of advanced airway by at least five methods.
- P For patient < 2 years old showing respiratory distress with nasal congestion, cough, rales, rhonchi or wheezing without previous history of wheezing, reactive airway disease, breathing treatments:

Nasal suction both nares (3-5 seconds) with an appropriate device and apply oxygen as required. If distress continues, repeat nasopharyngeal suction with an appropriately sized and lubricated suction catheter x 1, for 3-5 seconds.

NOTE: Repeated and prolonged suctioning could cause hypoxia and bradycardia.

- **P** If patient does have history of reactive airway disease with prescribed breathing treatments treat with asthma protocol.
- **P** For patients < 6 years old without a foreign body showing respiratory distress with agitation, upper airway noise, stridor, and/or "barky cough", lower temperature of ambulance as much as possible. Use oxygen as the patient tolerates. Oftentimes symptoms resolve with less intervention. Consider keeping distance from the patient.

Confirmation Methods:

- CO₂ detection methods are recommended, and Capnography is the "gold standard."
- Auscultation of the epigastrium, anterior chest, midaxillary areas, and then the epigastrium again
- Rise and fall of the chest
- Condensation in the tube
- Patient appearance

Confirmation Devices:

Electronic End Tidal CO₂ (EtCO₂) Monitors—Capnography

Capnography or capnometry is considered the "gold standard" of tube placement confirmation. {Waveform EtCO₂} is the preferred confirmation device. These devices measure the amount of carbon dioxide in the exhaled ventilations of patients. They can use mainstream sensors, which are located directly on the endotracheal tube, or sidestream sensors which sample the ventilation more remotely. Capnography can also be used with patients who are not intubated. In-line EtCO₂ monitors can be used on patients with or without adequate perfusion. Electronic monitors show changes in real-time.

If this equipment is available, it should be used on **EVERY** intubation, and always be one of the five confirmation steps. **MAINTAIN THIS DEVICE UNTIL PATIENT CARE IS TRANSFERRED TO THE RECEIVING HOSPITAL STAFF.** Under normal conditions, ventilations should not exceed 10-12 ventilations per minute, as referenced on CPR Guidelines Chart. Only if signs of cerebral herniation are present, hyperventilate at 20 ventilations per minute to a goal end tidal value of 30 mmHg.

Patients in asystole with a confirmed correct tube placement and a capnography reading < 10 mm/Hg, which does not improve during resuscitative efforts, have essentially no probability of survival and field termination should be strongly considered.

End Tidal CO₂ Detector (EtCO₂)—Colorimetric

Colormetric Limitations:

- The Colormetric EtCO₂ detector may be utilized as a confirmation device for patients in cardiac arrest, **IF** it shows the presence of CO₂ (color change to yellow). If there is no color change, use other confirmation methods. The absence of color change in a properly placed tube may be caused by a lack of perfusion, but it also may indicate esophageal intubation.
- Secretions, emesis, etc. can ruin the device.
- A patient with large amounts of carbonated beverage (e.g., beer) in their stomach can give a false positive result. The device may sense the CO₂ given off by that beverage and indicate that the tube in the trachea when it is in the esophagus.
- The device can be used for no more than two hours.
- Follow manufacturer's recommendations for weight restrictions.

Supraglottic Airways:

- Cervical collar is effective in maintaining patient's head in a neutral position.
- Dual Lumen Airways (e.g., Combitube, Pharyngotracheal Lumen Airway (PtL), King Airway or Laryngeal Mask Airways (LMA), are acceptable rescue airway devices and satisfy the rescue airway component. Use of these devices is limited to patients who need an artificial airway and are apneic and pulseless.
- If a foreign body is seen, attempt to remove it using suction.

CARDIOVASCULAR EMERGENCIES

General Considerations:

• CPR should not be interrupted for more than 10 seconds until spontaneous pulse is established.

CARDIAC ARREST: BASIC LIFE SUPPORT

- Assess patient for respiratory and cardiac arrest.
- Initiate CPR and defibrillator using the most current American Heart Association Guidelines.
- Transport patient as appropriate.

2015 AHA CPR GUIDELINES

| | ADULTS | CHILDREN | INFANTS | NEWBORNS |
|------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------|-----------------------|
| CPR ORDER | Compression, Airway, Breathing C A B | | | |
| COMPRESSION DEPTH | At Least 2 Inches | 1/3 Depth of Chest (About 2") | 1/3 Depth of Chest (About 1 ½ ") | 1/3 Depth of Chest |
| COMPRESSION RATE | 100 to 120 per minute | | | 120/min |
| COMPRESSION NOTES | Minimize interruptions in chest compress Limit interruptions to < 10 seconds | | | sions |
| COMPRESSION TO BREATHS RATIO | 30:2 1 or 2 Person CPR | 30:2 1 Person CPR 15:2 2 Person CPR | | 3:1 |
| ADVANCED AIRWAY | 1 breath every 6-8 seconds (8-10 breaths/min) About 1 sec per breath duration No interruptions of compressions | | | 40-60 breaths/min |
| RESCUE BREATHING | 1 breath every 5-6 seconds (10-12 breaths/min) | 1 breath every 3-5 seconds (12-20 breaths/min) | | 40-60 breaths/min |

NOTES:

- Use jaw-thrust method to open airway on trauma patients.
- Allow the chest to fully recoil after each compression.
- Change person compressing chest every 2 minutes.
- Attach and use AED as soon as possible.
- Utilize AED as it is programmed. (Even if it is not to AHA guidelines.)
- **P** If available, use age appropriate AEDs or pads.
- Minimize interruptions to compressions before and after each shock to less than 10 seconds.
- Resume CPR beginning with compressions after each defibrillation.
- For pregnant patients in arrest, consider need for manual uterine displacement and perform chest compressions slightly higher on the sternum than normal.

• In all cardiac arrests, consider treatable causes (i.e. "Hs and Ts"):

H's

Hypoxia: open airway, administer oxygen Hypothermia: pt may not respond to drug or electrical therapy T's

Toxins: treat known overdoses Tension Pneumothorax

CARDIAC ARREST

- If witnessed or unwitnessed arrest, initiate quality CPR and proceed to first defibrillation as soon as possible.
- Defib:
 - **A** Use manufacturer's recommendations.
 - **P** Pedi pads if available
- CPR for about 2 minutes
- Repeat cycles of defib, CPR for about 2 minutes.
- Consider treatable causes.
- Obtain {12 lead EKG transmission} if pt has ROSC

SUSPECTED CARDIAC CHEST PAIN

- P Chest pain in the pediatric patient is rarely related to a cardiac event. Assessment for other causes (e.g., muscle pain, respiratory difficulties, injury) should be completed to determine the source of pain. Application of supplemental oxygen and transport should be the mainstay of care for these patients. Contact MCP for further advice when needed.
- P THE REST OF CHEST PAIN ALGORITHM DOES NOT APPLY TO PEDS.
- **A** An unstable cardiac patient is one who is hypotensive, or has chest pain with poor skin color or diaphoresis.
- **A** A patient with chest pain whose oxygen sats are < 94%, should be given oxygen via NC and titrated to 94%.
- A A patient with chest pain, whose oxygen sats are > 94%, should not get any oxygen.
- **A** Do not withhold oxygen from a patient with SOB or respiratory distress.
- A No significant change in patient condition in the field should be expected from the administration of Aspirin. The treatment of active chest pain in appropriate patients should include both **Nitroglycerin** (after 12-lead EKG) and **Aspirin**. There is definite, time dependent benefit, to aspirin making field administration of significant value.
- **A** ◆Give **Aspirin** (**ASA**) **324 mg** to every patient ≥ 25 y/o with symptoms of Acute Coronary Syndrome (ACS) including anginal chest pain, shortness of breath, syncope, diaphoresis, weakness, nausea, or vomiting. Patient MUST CHEW the **ASA**.
- A Ask male and female patients if they have taken Viagra, Cialis, Levitra, Revatio, or similar medications within the last 24 hours. Do not administer **Nitroglycerin** (**NTG**) if they have taken the above medications. **NTG** may cause profound hypotension in these patients.
- A \bullet If prescribed, SBP >100, and the patient is ≥ 25 y/o, administer Nitroglycerin 0.4 mg SL, every 5 minutes, for pain, to a total of three pills with vital signs between doses. EMTs may assist patient's initial dose of their prescribed NTG, subsequent doses require MCP order.
- **A** Prior to moving patient, acquire a supine {12-lead EKG} on all patients with ACS symptoms. Some patients (elderly or diabetics) often may have atypical symptoms.
- A {Transmit} EKG with two identifiers to MCP. Name and DOB only must be written on any EKG left with a run report. Transmit all {12-lead EKGs}. If patient identifiers are not available, please obtain a hospital sticker from receiving facility and attach to EKG.
- A The MCP shall be contacted after any {12-lead EKG transmission} is completed.
- A Consult MCP for appropriate destination.
- A Consider repeat {12-lead EKGs} during transport.

NOTE: Revatio is a drug approved for treatment of pulmonary arterial hypertension (PAH), a disease that may be treated with Flolan at end stage. The drug contains Sildenafil which is Viagra. Organic nitrates are contraindicated with Revatio. Revatio is prescribed for both men and women. Providers should ask patients, especially PAH patients, about both Viagra and Revatio before giving NTG.

OBTAINING A 12-LEAD EKG

- Limb leads:
 - o Left and right shoulders, or anywhere on their arms
 - Leg electrodes anywhere below the waist
- Chest leads:
 - V1: The Angle of Louis is the prominence on the sternum where the manubrium (top third of the sternum), sternal body (bottom two thirds), and the second rib all come together. Locate it by palpating the "bump" on the sternum, then move out along the second rib to the patient's right. Just below the second rib is the second intercostal space. Move down two more intercostal spaces, and position electrode V1 in the fourth intercostal space, just to the right of the patient's sternum.
 - O V2: Place an electrode in the fourth intercostal space on the left side of the sternum.
 - o V3: Place after V4, see below.
 - V4: From V2, move down to the fifth intercostal space on the patient's left, then move laterally to the mid-clavicular line. V4 goes in the intersection of the fifth intercostal space, and the mid-clavicular line.
 - o V3: Halfway between V4 and V2
 - o V5: Find the anterior axillary line by locating the crease where the arm joins the chest. Move down that line to a point just lateral to V4.
 - o V6: V6 is placed on the midaxillary line, level with V5.
- Skin preparation
 - Use alcohol preps to prep the skin for monitoring electrodes and for 12-Lead EKGs.
 - o DO NOT use alcohol preps with therapeutic electrodes, such as QuikCombo pads.
 - Shave excess hair.
 - o Dry skin.
- Primary ways to reduce artifact:
 - o Thoroughly prep the skin.
 - Remove excess hair.
 - o Attach each electrode solidly.
 - o Prevent patient movement.
 - o Prevent cable movement.
 - Stop the squad.
 - o Eliminate electromagnetic interference (EMI):
 - Turn off or move away from electrical devices.
 - Do not allow patient cables to touch power cords.
 - Make sure patient cables and electrodes are in good shape.
- {Transmit the 12-lead EKG} and call the receiving facility.

CARDIAC DYSRHYTHMIAS

BRADYCARDIA

A cardiac patient should be considered <u>unstable</u> if they are hypotensive, have altered mental status, or has unresolving chest pain and poor skin color or diaphoresis.

- Bradycardia is any rate less than 60 bpm.
- Obtain {12-lead EKG}, transmit and call receiving facility.
- For adequate perfusion, observe and monitor.
- Transport immediately unless ALS intercept is < 5 minutes.
- **P** For adequate perfusion, observe, monitor vital signs, and apply oxygen if needed.
- **P** For poor perfusion:
 - o Perform CPR if HR < 60/min.

TACHYCARDIA

- Tachycardia is any rate greater than 100 bpm.
- Obtain {12-lead EKG}, transmit and call receiving facility.
- Transport immediately unless ALS intercept is < 5 minutes.

SHOCK

Perform manual BP on all pts presenting with S/S of shock. SBP is only one component of the overall clinical picture, which may include tachycardia, tachypnea, diaphoresis, restlessness, decreased mentation. Skin may be pale, ashen, cyanotic, cool, or clammy. Be sure to include S/S in report if SBP is < 100.

• Transport immediately unless ALS intercept < 5 minutes.

SEPSIS

Sepsis affects at least one million people annually. Patients may be in septic shock with a normal BP. Severe sepsis is characterized by poor perfusion, leading to a buildup of serum lactate and resulting metabolic acidosis. EtCO₂ levels decline in the setting of both poor perfusion and metabolic acidosis. To compensate for metabolic acidosis, patients increase their minute ventilation. This increased respiratory rate "blows off" carbon dioxide and lowers EtCO₂. At the same time, poor tissue perfusion decreases the amount of blood flow to the alveoli of the lungs, reducing the amount of carbon dioxide that can be exhaled—the most dramatic demonstration of this process is during cardiac arrest.

Sepsis is often associated with a high mortality rate. The key to improve patient outcomes in septic shock is early recognition, fluid resuscitation, O₂ therapy and rapid transport.

When to consider sepsis:

- A patient with a known or suspected infection and an EtCO₂ < 32 or > 47, with 2 or more of the following criteria:
 - Respiratory rate ≥ 22
 - o Altered mental status (GCS < 13)
 - \circ Temperature > 100.4 (38 C) or < 96.8 (36 C)
 - \circ Heart rate > 90
 - Systolic BP < 100 or MAP \leq 65. MAP (mean arterial pressure) is considered to be the organ perfusion pressure. MAP = (SBP + 2 X DBP) / 3 and is normally 70 110 mm/hg.
- Treatment:
 - O
- Consider contacting the receiving facility if you suspect sepsis

Note: Be especially suspicious of sepsis in geriatric patients with altered mental status

STROKE

- **A** Be prepared to assist ventilations with oral or nasal airway and BVM or {FROPVD (Flow Restricted Oxygen Powered Ventilation Device)}.
- **A** A patient in respiratory distress with pale, moist skin and altered mental status, should get oxygen via NRM.
- If signs of cerebral herniation are present, ventilate at the following rates:
 - **A** {If numeric EtCO₂ readings are available, ventilate at a rate to maintain readings at approximately 30 mmHg (30 torr)}, which is approximately 20 times per minute.
 - P Ventilate at a rate of ten faster than normal respiratory rate when the signs of cerebral herniation are present.
- If glucose < 60, or there is strong suspicion of hypoglycemia despite glucometer readings, treat for hypoglycemia.
- If one or more signs of the Cincinnati Prehospital Stroke Scale are abnormal, and < 4 hours since patient was last seen normal, call a Stroke Alert, and transport to the closest Stroke Center:
 - o State actual clock time for last known normal. Do no not say, "20 minutes ago."
 - o Cincinnati Prehospital Stroke Scale: (normal or abnormal)
 - Facial Droop (pt. shows teeth or smiles).
 - Arm Drift (pt. closes eyes and holds both arms straight out for about 10 seconds).
 - Abnormal Speech (have pt. say "You can't teach an old dog new tricks.")
 - A patient with indications of stroke who has an oxygen sat of < 94%, should be given oxygen via NC and titrated to 94%.
 - A patient with indications of stroke whose oxygen sats are > 94%, should not get any oxygen.
- If patient's symptoms occurred > 4 hours from last time they were known to be free of stroke symptoms or awoke abnormal, consider transport to a Comprehensive Stroke Center.
- Consider contacting MCP with a Stroke Alert for advice regarding transport destination if unknown time since last seen normal.
- Transport the patient with the bed flat, if able to tolerate. If showing signs of increased ICP, do not lay pt flat.
- Transport historian with patient both to provide patient history and for permission to treat.
- Document that you called a "Stroke Alert."

Telemedicine stroke center with tPA ready, also known as drip and ship, has tPA capabilities and immediate access to a Neurologist via telemedicine.

Primary Stroke Center: facility with capability to administer tPA, also has an ICU. They can either admit patients or move them on.

Comprehensive Stroke Centers: facility with 24/7 endovascular capabilities.

- Miami Valley Hospital
- Kettering Medical Center

Disorders Mimicking Stroke

- Seizure
- Subdural hematoma
- Brain tumor
- Syncope
- Toxic or metabolic disorders (e.g., hypoglycemia)

If any of the conditions below are present, it is **RECOMMENDED** that the patient be transported to a Comprehensive Stroke Center.

- A When determining a transport destination, the following contradictions to tPA will be considered:
 - Neurosurgery, head trauma or stroke in the last 3 months
 - Major surgery or serious non-head trauma in the previous 14 days
 - History of gastrointestinal or urinary tract hemorrhage within 21 days

- Current (within the last 48 hours) use of anticoagulants:
 - o Warfarin (Coumadin, Jantoven)
 - Abigatran (Pradaxa)
 - o Rivaroxaban (Xarelto)
 - Apixiban (Eliquis)
 - o Edoxaban (Savaysa)
 - o Lovenox injections

TRAUMA EMERGENCIES

General Considerations:

- Use of on-line MCP for medical direction in the field for difficult cases is encouraged.
- Minor trauma patients may be transported to non-trauma centers.
- Major trauma patients are to be transported as soon as possible to the nearest appropriate facility.
- Scene size-up, with rapid assessment and recognition of major trauma or multiple system trauma and effective evaluation of the mechanism of injury are essential to the subsequent treatment.
- Hypothermia is a significant and frequent problem in shock for major trauma patients. Maintain patient's body temperature.
- If patient condition changes, notify hospital.
- When patient is transported by helicopter, the EMS run sheet should be faxed to the receiving trauma center.
- The *only* procedures that should take precedence to transport of major trauma patients are:
 - o Airway management
 - o Stabilization of neck, back or obvious femur and pelvic fractures on a backboard
 - o Exsanguinating hemorrhage control
 - Extrication
- After the trauma patient's extrication, the on-scene time should be limited to **10 minutes or less**, except when there are extenuating circumstances.
- **Pre-arrival notification of the receiving facility is essential!** Give Mechanism of Injury, Injuries, Vital signs, Treatment (MIVT), GCS with components, and ETA.
- Take a manual BP on all trauma patients.
- Repeat vitals on trauma patients every 5 minutes.

GLASGOW COMA SCALE

| | < 2 YEARS OLD | | ADULT & PEDIATRIC > 2 YEARS OLD | |
|--------|---------------------------|---|---------------------------------|---|
| | SPONTANEOUSLY | 4 | SPONTANEOUSLY | 4 |
| | TO VOICE | 3 | TO VOICE | 3 |
| EYES | TO PAIN | 2 | TO PAIN | 2 |
| | No response | 1 | No response | 1 |
| | COOS, BABBLES | 5 | ORIENTED | 5 |
| | IRRITABLE CRY, CONSOLABLE | 4 | CONFUSED | 4 |
| VERBAL | CRIES TO PAIN | 3 | INAPPROPRIATE WORDS | 3 |
| | MOANS TO PAIN | 2 | GRUNTS, GARBLED SPEECH | 2 |
| | No response | 1 | NO RESPONSE | 1 |
| | NORMAL MOVEMENTS | 6 | OBEYS COMMANDS | 6 |
| | WITHDRAWS TO TOUCH | 5 | LOCALIZES PAIN | 5 |
| MOTOR | WITHDRAWS TO PAIN | 4 | WITHDRAWS TO PAIN | 4 |
| | FLEXION (DECORTICATE) | 3 | FLEXION (DECORTICATE) | 3 |
| | EXTENSION (DECEREBRATE) | 2 | EXTENSION (DECEREBRATE) | 2 |
| | No response | 1 | No response | 1 |

PRE-HOSPITAL FIELD TRIAGE

- Patients to be taken to the nearest hospital:
 - o Unstable airway
- Drowning; strangulation; burns; electromagnetic, chemical, or radiation exposure; heat or cold injury or illness; and asphyxia are considered trauma and these patients should be transported to a Trauma Center.
- List in the EMS run report which of the State Trauma Triage Criteria the patient met.

ADULT and PEDIATRIC TRAUMA ARREST

Initiation of Resuscitation Considerations & Care:

- P ANY PEDIATRIC PATIENT NOT MEETING NON-INITIATION CRITERIA, BEGIN RESUSCITATION.
 - Consider the possibility of both medical and traumatic causes (mixed mechanisms).
 - Initiate a Rapid Primary Survey for reversible causes: hypoxia, tension pneumothorax, cardiac tamponade (alert ED) and hypovolemia (HTTH). Although compressions, airway, medications, etc should continue, TREATMENT OF REVERSIBLE CAUSES SHOULD BE A PRIORITY.
 - Cardiac monitoring via AED The appropriate algorithm should be followed, and defibrillation should be provided as indicated.
- Secure Airway and confirm with EtCO₂.

Internal/External hemorrhage control (e.g., tourniquets, pelvic binders, etc.) If ROSC is achieved do not delay and transport immediately.

Termination of Resuscitation: CONTACT MCP FOR FIELD TERMINATION

- For adult patients in arrest resulting from blunt or penetrating trauma consider termination of resuscitation (TOR) and or non-transport if the following are met:
- o No immediately reversible cause can be determined after rapid primary survey and treatment.
- O No signs of life after treatment (e.g., respiratory effort, purposeful movements, reactive pupils, etc.)

Consideration of the possibility of mixed mechanisms.

- Sustained EtCO₂ of below < 10
- o If no ALS equipment is available at the scene and transport will exceed 20 minutes, field termination may be considered
- Be able to provide duration of resuscitation, how long the patient was in arrest prior to EMS arrival, witnessed or unwitnessed, EtCO2, blood glucose and presenting rhythm.
- Continue care and transport if patient arrests after in the care of EMS.

Send a copy of the run sheet to the EMS Coordinator of the authorizing MCP's hospital

TRAUMA CRITERIA

- **G** Patients 70 years of age or older will be triaged for evaluation in a Trauma Center for:
 - G GCS < 15 with suspected traumatic brain injury (TBI)
 - **G** Systolic BP < 100 mmHg
 - **G** Falls, even from a standing position, with evidence of TBI
 - **G** Pedestrian struck by motor vehicle.
 - **G** Known or suspected proximal long bone (femur, humerus) fracture sustained in MVC.
 - **G** Multiple body regions injured.
- **G** Special consideration should be given for the geriatric trauma patient to be evaluated at a Trauma Center if they have diabetes, cardiac disease, clotting disorders, immunosuppressive disorder, are on anticoagulants, or require dialysis.

Anatomy of Injury:

- All penetrating trauma to head, neck, torso, and extremities proximal to elbow or knee with neurovascular compromise.
- Abdominal injury with tenderness, distention, or seat belt sign
- Chest injury: flail chest or tension pneumothorax

- Two or more proximal long bone fractures
- **G** One proximal long bone fracture in MVC only (*Geriatric Trauma*)
- Evidence of pelvic fracture (exception: isolated hip fracture)
- Spinal cord injury with paralysis
- A Burns greater than 10% total body surface area (BSA) or other significant burns involving the face, feet, hands, genitals or airway
- **P** Burns greater than 5% total BSA or other significant burns involving the face, feet, hands, genitals or airway
- Amputation proximal to wrist or ankle
- Evidence of serious injury of 2 or more body systems
- Crush injury to head, neck, torso, or extremities proximal to knee or elbow
- Open skull injury

| YES =Transport to Trauma Center | NO – Assess Physiologic |
|---------------------------------|-------------------------|
| Alert Trauma Team | |

Physiological Adult:

- A GCS less than or equal to 13
- A Loss of consciousness greater than five minutes at any time
- A Alteration in level of consciousness with evidence of head injury at time of exam or thereafter
- A Failure to localize pain
- **A** Respirations < 10 or > 29
- A Needs ventilatory support
- **A** Tension pneumothorax
- A Pulse > 120 in combination with any other physiologic criteria
- A SBP < 90 or absent radial pulse with carotid pulse present

Physiological Pediatric:

- **P** GCS less than or equal to 13
- P Loss of consciousness greater than five minutes at any time
- P Alteration in level of consciousness with evidence of head injury at time of exam or thereafter
- **P** Failure to localize pain
- **P** Evidence of poor perfusion (e.g., weak distal pulse, pallor, cyanosis, delayed capillary refill, tachycardia)
- **P** Evidence of respiratory distress or failure (e.g., stridor, grunting, retractions, cyanosis, nasal flaring, hoarseness, or difficulty speaking)
- **P** Respiratory rate less than 20 per minutes in infants less than 1 year old.

Physiological Geriatric:

- **G** GCS < 15 with evidence of TBI
- G Loss of consciousness greater than five minutes at any time
- G Alteration in level of consciousness with evidence of head injury at time of exam or thereafter
- **G** Failure to localize pain
- **G** Respirations < 10 or > 29
- G Needs ventilatory support
- **G** Tension pneumothorax
- **G** Pulse > 120 in combination with any other physiologic criteria
- G SBP < 100 or absent radial pulse with carotid pulse present

| YES = Transport to Trauma Center | NO = Evaluate Mechanism of Injury | |
|----------------------------------|-----------------------------------|--|
| Alert Trauma Team | | |

Mechanism of Injury:

- Auto-pedestrian or auto-bicycle injury with significant (> 5 mph) impact
- Death in same passenger compartment
- Ejection from motor vehicle
- Extrication time > 20 minutes
- A Fall > 20 feet
- **P** Fall greater than 3 times child's height
- High-speed auto crash
 - \circ Speed > 40 mph
 - o Intrusion into passenger compartment > 12 inches
 - o Major auto deformity > 20 inches
- Open motor vehicle crash > 20 mph or with separation of rider from vehicle
- Pedestrian thrown or run over.
- Unrestrained rollover
- Vehicle telemetry data consistent with high risk of injury

| YES = Consider Trauma Center | NO = Check Special Situations | |
|------------------------------------------------------|-------------------------------|--|
| May consult with Medical Control Physician if needed | | |

Special Situations:

- Pre-existing cardiac or respiratory disease
- Insulin dependent diabetes, cirrhosis, morbid obesity, seizure disorder
- Patient with bleeding disorder or on anticoagulants
- Immuno-suppressed patients (renal dialysis, transplant, cancer, HIV)
- P Congenital disorders

| YES = Consider Trauma Center | NO = Check Special Situations |
|------------------------------|-------------------------------|
|------------------------------|-------------------------------|

TRAUMA TRANSPORT GUIDELINES

Trauma Center/Facility Capabilities:

- Level I and II Trauma Centers can care for the same trauma patients.
- Level III Trauma Centers offer services, based on individual hospital resources that provide for initial assessment, resuscitation, stabilization, and treatment of the trauma patient.
- In some areas of the region a Level III Trauma Center is the only trauma facility within 30 minutes ground transport time. This hospital may act as the primary receiving facility for the critically injured patient.
- In areas where the trauma patient is closer to a Level III Trauma Center, but a Level I or Level II Trauma Center is still within 30 minutes, the EMS Provider should decide whether the patient would benefit more from an immediate evaluation, stabilization, and treatment at the Level III Trauma Center, or from direct transport to a Level I or Level II Trauma Center.
- In areas of the region where there are no Trauma Centers within 30 minutes ground transport time, the acute care hospital may act as the primary receiving facility for critically injured trauma patients, or EMS Provider may arrange for air medical transport from the scene.
- **P** If a pediatric patient meets the trauma triage guidelines, transport to a Pediatric Trauma Center. Pediatric patients should be transported in an appropriately sized child restraint system. If transportation time is > 30 minutes, transport to the nearest acute care hospital, or EMS providers may arrange for air medical transport from the scene.
- All pregnant trauma patients should be rapidly transported to the nearest Adult Trauma Center with labor and delivery capabilities, unless transport time > 30 minutes.

Air Medical Transportation:

Prolonged delays at the scene waiting for air medical transport should be avoided.

- Cardiac arrest is **not** appropriate for air transport.
- In the rural environment, direct transfer of trauma patients by air medical transport may be appropriate and should be encouraged.
- Consider the time involved in landing, packaging, loading, and unloading the patient in deciding whether air transport is necessary. It is often faster to use ground transport if the patient is within 15 miles of the Trauma Center.

Exceptions to Transportation Guidelines:

- It is medically necessary to transport the victim to another hospital for initial assessment and stabilization before transfer to a Trauma Center.
- It is unsafe to transport the victim directly to a Trauma Center due to adverse weather or ground conditions or excessive transport time.
- Transporting the victim to a Trauma Center would cause a shortage of local emergency medical services resources.
- No appropriate Trauma Center is able to receive and provide trauma care to the victim without undue delay.
- Before transport begins, the patient requests to be taken to a particular hospital even if it is not a Trauma Center. If the patient is a minor or otherwise considered incapable of making medical decisions, an adult relative or other legal representative may make this request.

MAJOR TRAUMA

Patients meeting criteria for transport to a Trauma Center are considered "Load and Go."

- Place the patient in a correct position to maintain the airway.
- Open pneumothorax: cover wound with an occlusive dressing, tape down three sides.
- Tension pneumothorax:
 - o Lift one side of any occlusive dressing.
 - Use caution not to confuse right mainstem intubation for a pneumothorax.
- Flail chest: stabilize immediately with a gloved hand, then immobilize with a bulky dressing or towels taped to the chest, apply positive pressure ventilation.
- Contact Medical Control and advise of patient condition with MIVT, ETA, and GCS components.
- For pregnant patient in arrest consider need for manual uterine displacement and perform chest compressions slightly higher on the sternum than normal.

CRUSH SYNDROME TRAUMA

- **History:** Entrapped or under an extreme load and crushed.
- Contact MCP immediately and prior to relieving the load.
- Signs and symptoms: hypotension, hypothermia, abnormal ECG findings, pain and anxiety
- {12-lead} as soon as feasible
- Monitor and reassess
 - o **Special considerations:** Potential for multiple system trauma
 - o Potential for hypo/hyperthermia.

HEMORRHAGE CONTROL

- Control of life-threatening external hemorrhage takes priority over any other treatment.
- Constant, direct pressure is the primary method of bleeding control.
- If direct pressure fails to control bleeding from extremities, use a tourniquet.
 - o {Commercial tourniquets such as the CAT or SOFTT are recommended.}
 - Only use wide, flat materials such as cravats or BP cuffs as improvised tourniquets.
 - o For injuries to the leg or forearm, place a tourniquet as proximal as possible to the torso on the femur or humerus.
 - o Tighten the tourniquet until the bleeding stops.
 - o If bleeding persists, place another tourniquet abutted to the first tourniquet.
 - o Document time and location. Be sure that the ER staff is aware of the tourniquet.
- {For life-threatening hemorrhage that can't be controlled by a tourniquet, consider hemostatic dressings, e.g., Combat Gauze or ChitoFlex PRO. These can be used on or in the chest or abdomen. Place in direct contact with the source of bleeding and apply a pressure dressing or use Kerlix.}
- DO NOT USE GRANULAR AGENTS.
- Treat for hypovolemic shock as indicated.
- Transport immediately unless ALS intercept is < 5 minutes.

HEAD INJURY

- Evaluate patient condition: including level of consciousness, pupillary size and reaction, GCS.
- Signs of cerebral herniation:
 - Dilated and unresponsive pupils, bradycardia, posturing, decreased mental status.
- A Ventilate at 20 breaths per minute when signs of cerebral herniation are present:
 - {Ventilate to maintain EtCO₂ readings of 30 mmHg (30 torr)}. Never ventilate at less than 8 per minute.
- **P** Ventilate at a rate of ten faster than normal respiratory rate when the signs of cerebral herniation are present:

Maintain good ventilation at rate of about one breath every 5-6 seconds (10-12 per minute), with high flow oxygen. Prophylactic hyperventilation for head injury is not recommended. Cerebral herniation syndrome is the only situation in which hyperventilation (rate of 20 per minute; pediatric rate of 10 faster than normal rate) is indicated.

Hypoventilation increases the level of CO_2 in the brain causing cerebral vasodilatation and increased swelling. Hyperventilation decreases the level of CO_2 and causes cerebral (vasoconstriction, hypoxia and ischemia). Both hypoventilation and hyperventilation could cause cerebral hypoxia and increases mortality.

In cerebral herniation, there is a sudden rise in intracranial pressure. Portions of the brain may be forced downward, applying great pressure on the brainstem. This is a life-threatening situation characterized by a decreased LOC that rapidly progresses to coma, dilation of the pupil, an outward-downward deviation of the eye on the side of the injury, paralysis of the arm and leg on the side opposite the injury, or decerebrate posturing. When this occurs, the vital signs frequently reveal increased blood pressure and bradycardia. The patient may soon cease all movement, stop breathing, and die. If these signs are developing in a head injury patient, cerebral herniation is imminent and aggressive therapy is needed. Hyperventilation will decrease ICP. In this situation, the danger of immediate herniation outweighs the risk of ischemia.

EXTREMITY INJURIES

- For open fractures, control bleeding with direct pressure and cover with dry, sterile dressing.
- Apply appropriate splinting device.
- To reduce swelling, elevate extremity and apply ice.

Good Splinting Practices:

- Document distal sensation and circulation pre & post splinting and pre & post spinal restriction.
- If the extremity is severely angulated and pulses are absent, apply gentle traction in an attempt to bring the limb back into a natural anatomic position. If resistance is encountered, splint the extremity in the angulated position.
- Open wounds should be covered with a sterile dressing before splinting.
- Apply a well-padded splint to immobilize above and below the injury.
- If in doubt, splint a possible injury.

NOTE: The patient who requires a load and go approach can be adequately immobilized by careful packaging on the long spine board. Do additional splinting en route to the hospital as time and the patient's condition permit.

DROWNING

- Consider spinal restriction.
- Consider possibility of hypothermia.
- Evaluate neurological status.
- Drowning patients should be transported to a Trauma Center.

HYPOTHERMIA

- Move patient to warm environment, remove all wet clothing, dry the patient, and cover with blankets.
- Avoid any rough movement that may cause cardiac dysrhythmias or cardiac arrest. It may be beneficial to immobilize the patient on a backboard.
- Assess neurological status.
- It may be necessary to assess pulse and respirations for up to 45 seconds to confirm arrest.
- Consider possibility of other medical conditions (e.g., overdose, hypoglycemia).
- Hypothermic patients should be transported to a Trauma Center.
- If patient arrests:
 - o CPR continuously
 - \circ If severe hypothermia (< 86°F (30°C)) is strongly suspected, limit defibrillation attempts to one except on orders from MCP.
 - o If body temperature is $> 86^{\circ}F$ (30°C), follow normal arrest protocols.
- Oxygenate the patient with {warmed and humidified} 100% **O**₂.
- Continue resuscitative efforts while in transit, even if there is no response.
- Transport to a Trauma Center.

FROSTBITE

- Protect injured areas. Remove clothing and jewelry from injured parts.
- Do not attempt to thaw injured part with local heat.
- Maintain core temperature.
- Severe frostbite injuries should be transported to a burn center.

BURNS and SMOKE INHALATION

General Considerations:

- It is strongly recommended that at dispatch, agencies immediately call for the nearest available cyanide antidote cache whenever any of the following occur:
 - O Dispatched on a report of a person trapped with exposure to fire or smoke in an enclosed area.
 - o Dispatched on a report of an incident involving hydrogen cyanide.
 - o Report of a Mayday or firefighter down with exposure to fire or smoke in an enclosed area.
- Stop the burning and minimize contamination.
- Severe burns should be transported to a burn center unless ETA > 30 minutes.
- Keep patient warm.
- Superficial and partial thickness burns < 10% may have wet dressings applied.
- Burns > 10% BSA may be covered with clean, dry sheets or dressings.
- Remove clothing and jewelry from injured parts. Do not remove items which have adhered to the skin.
- Inhalation injuries with an unsecured airway should be transported to the nearest facility.
- Chemical burns are HazMat situations and must be grossly decontaminated at the scene.
- BP may be taken over damaged tissue if no other site is accessible.

Specific Care:

- Assess for respiratory distress, stridor, hoarseness, sooty sputum, singed eyebrows and nares, or burns of the face or airway.
- Determine type of burn and treat:
 - o Radiation burns:
 - Treat critical medical conditions first.
 - Treat as thermal burns except when burn is contaminated with radioactive materials, then treat as a HazMat situation. Decontaminate the patient.
 - Consider contacting HazMat team for assistance in contamination cases
 - o Inhalation Burns:
 - Provide $\{\text{humidified}\}\ \mathbf{O}_2$.
- {CO oximeter}
- Consider Hyperbaric Oxygen Treatment for the following:
 - Underlying cardiovascular disease, or cardiovascular symptoms such as chest pain or shortness of breath
 - \circ > 60 years of age
 - Obvious neurological symptoms, such as any interval of unconsciousness, loss of time, inability to perform simple motor tasks, or loss of memory
 - o Pregnancy

CARBON MONOXIDE (CO) POISONING

- Provide high flow O₂ to all suspected CO poisonings.
- Pulse Oximeter will give false readings and should not be utilized.
- {CO oximeter}
- Consider Hyperbaric Oxygen treatment for the following patients with suspected CO exposure:
 - Underlying cardiovascular disease or symptoms such as chest pain or shortness of breath
 - \circ > 60 years of age
 - Obvious neurological symptoms, such as any interval of unconsciousness, loss of time, inability to perform simple motor tasks, or loss of memory
 - Smoke inhalation victims
 - Pregnancy
- Contact MCP to discuss transport considerations.

HEAT EXPOSURE

General Considerations

- Geriatric patients, pediatric patients, patients with a history of spinal injury, and diabetics are most likely to suffer heat-related illnesses. Other contributory factors may include heart medications, diuretics, cold medications, and psychiatric medications.
- Heat exposure can occur due to increased environmental temperatures, prolonged exercise or a combination of both. Environments with temperatures above 90°F and humidity over 60% present the most risk.

Specific Care

- Move patient to a cool environment.
- Remove patient's clothing. Apply water to the skin to cool the patient.
- Apply cold packs to underarms and groin area.
- Cold water submersion is an acceptable method for cooling heat stroke patients. You may encounter patients in cooling body bags. The goal is to lower temperature to < 102.5°F.
- If conscious and not vomiting or extremely nauseous, provide oral fluids.
- Be prepared for seizures.
- Consider other medical conditions (e.g., overdose, hypoglycemia, CVA) and treat accordingly.
- Hyperthermia patients should be transported to a Trauma Center.

EYE INJURIES

- If possible, contact lenses should be removed. Transport contacts with patient.
- Use nasal cannula with IV tubing for irrigation.
- Chemical Burns:
 - o Irrigate immediately with **NS** or water for a minimum of 30 minutes or until patient transport is completed.
 - o Determine chemical involved. Bring MSDS, if available.
- Major Eye Trauma:
 - o Do not irrigate if penetrating trauma.
 - o Cover both eyes to limit movement.
 - Do not use a pressure or absorbent dressing on or near any eye that may have ruptured, or have any penetrating trauma.
 - o Transport with head elevated at least 30°.

RESPIRATORY DISTRESS

- Evaluate breath sounds:
 - Clear: treat cause (e.g., MI, pulmonary embolism, metabolic disturbance, and hyperventilation).
 - o Wheezes: treat cause (e.g., pulmonary edema, FBAO, asthma, allergic reaction).
 - o Rales: treat cause (e.g., pulmonary edema, pneumonia).
 - Diminished or absent:
 - Unilateral: treat cause (e.g., pneumothorax, hemothorax, pneumonia, surgically removed lung, asthma).
 - Bilateral: treat cause (e.g., respiratory failure, end stage COPD, asthma).
- Obtain Pulse Oximeter and {capnography} reading.
- {12-lead EKG}

PULMONARY EDEMA

- Assess for and note: cyanosis, clammy skin, absence of fever, coughing, wheezing, labored breathing, diaphoresis, pitting edema, bilateral lower lobe rales, tachypnea, apprehension, JVD, and inability to talk.
- A CPAP

ASTHMA, EMPHYSEMA, COPD

- If patient develops wheezing, assist them with taking their prescribed metered dose inhaler.
- ◆Consider **Albuterol 2.5 mg** and **Ipratropium 0.5 mg, nebulized** with **O**₂ 8-10 LPM
- A May repeat Albuterol 2.5 mg nebulized X 2.
- For any patient who is bronchial constricted: **CPAP**
- Transport unless ALS intercept < 5 minutes.
- A patient who has received a breathing treatment should be transported for evaluation.

ALLERGIC REACTION, ANAPHYLAXIS

- Epinephrine is the mainstay of anaphylaxis in allergic reaction treatment. Epinephrine is particularly important in cases of any airway edema, hypotension, or when multiple body systems are involved. Advanced age is not a contraindication to epinephrine.
- If allergic reaction:
 - P If < 15 kg, EpiPen Jr
 - P If ≥ 15 kg and ≤ 30 kg, Adult EpiPen
 - If \geq 30 kg, give both Adult EpiPen and EpiPen Jr
- If symptoms persist, may repeat in 5 minutes.
- If patient develops wheezing, assist them with their prescribed metered dose inhaler or
- Albuterol 2.5 mg and Ipratropium 0.5 mg in nebulizer with O₂ flowing at 8-10 LPM.
- Albuterol may be repeated **X** 2.
- If applicable, apply ice pack.

HYPOGLYCEMIA

- If glucose < 60, or there is strong suspicion of hypoglycemia despite glucometer readings:
 - Oral glucose is indicated for any conscious but disoriented patient with BS < 60, or a strong suspicion of hypoglycemia despite blood sugar readings. Oral glucose may be administered carefully under the tongue or between the gum and cheek of an unresponsive patient who must be placed in the lateral recumbent position to promote drainage of secretions away from the airway.</p>
- Maintain normothermia. Unconscious diabetics are often hypothermic.
- In a diabetic patient with an insulin pump and a glucose < 60, treat the hypoglycemia.

NOTE: Take extra tubing and medication reservoir or vials to the receiving facility for patients with insulin pumps.

For a diabetic patient with an insulin pump who is hypoglycemic, treat the hypoglycemia. Do not disconnect or turn off pump.

MAINTENANCE OF EXISTING MEDICATION PUMPS

Do not stop the flow of medication except under direct orders from Medical Control. There are some drugs such as **Flolan** that could kill the patient if stopped. If the patient is experiencing an allergic reaction, call Medical Control.

DIABETIC EMERGENCIES: REFUSAL OF TRANSPORT

- A Patients 18 years of age or older may be permitted to refuse. Follow these guidelines:
 - o Repeat physical examination and vital signs. Patient must be A&O x 3.
 - Warn the patient that there is a significant risk of going back into hypoglycemia, especially if on oral hypoglycemics.
 - o Advise the patient to eat something substantial immediately.
 - Advise the patient to contact their family physician as soon as possible to minimize future episodes.
 - o Advise the patient to stay with someone.
 - o Follow normal patient refusal procedures.

NOTE: Send a copy of the run sheet to the EMS Coordinator of the hospital that replaces your Drug Bag and supplies.

SEIZURES

- BVM and nasopharyngeal airway during seizure as needed
- If glucose < 60, or there is strong suspicion of hypoglycemia despite glucometer readings
 - o Oral Glucose
 - o In a diabetic patient with an insulin pump and a glucose < 60, treat the hypoglycemia.
 - o Maintain normothermia.
- When obtaining history be sure to include the following:
 - o Description of seizures, areas of body involved, and duration
 - Other known medical history; (e.g., head injury, diabetes, drugs, alcohol, stroke, heart disease, recent fever or illness, possible toxicological agents)

OVERDOSE or POISONING

• EMS personnel should contact MCP for suspected poisonings. Poison Control is intended for use by the general public.

Narcotic Overdose

- Consider patient restraint before administration of **Naloxone**:
 - If respirations are impaired or there is suspicion of narcotic overdose, administer **Naloxone**, up to **4 mg IN**
 - When given IN, the onset of action is approximately 2 minutes.
 - May repeat Naloxone doses in 2 minutes.
 - P Naloxone:
 - $\circ \le 20 \text{ kg } 0.1 \text{ mg/kg IN}$, (max dose 2 mg), may repeat x one
 - \circ > 20 kg 2 mg, IN, may repeat as needed
 - o Titrate to adequate respirations.
- Consider other causes of altered mental status such as hypoglycemia, head trauma, sepsis, and stroke.
- After administration of **Naloxone**, patient transport by EMS is encouraged.
- Naloxone is not felt to be effective in the reversal of cardiac arrest from opioid overdose. Airway
 control, ventilation, and quality CPR are still the mainstay of treatment.

NOTE: Most pediatric patients with respiratory depression do not have narcotic overdose. They are either septic or have respiratory failure.

ABDOMINAL PAIN

- Ensure an abdominal exam which includes inspection, auscultation and palpation is performed and documented on every patient with abdominal pain.
- Assess and document pain using the OPQRST acronym:
 - \circ O = Onset
 - Was the onset sudden or gradual?
 - \circ P = Provocation and Palliation
 - What causes it?
 - What makes it better or worse?
 - \circ Q = Quality
 - What kind of pain is it?
 - \circ R = Region and Radiation
 - Where is the pain located?
 - Does it radiate?
 - \circ S = Severity and Scale
 - Does it interfere with activities?
 - How does it rate on a severity scale of 1 to 10?
 - \circ T = Timing and Type of Onset
 - How often does it occur?
 - When did it begin?
- Position of comfort
- Give nothing by mouth.
- Assess for trauma, pregnancy, illness, or potential ingestion.

OBSTETRICAL EMERGENCIES

- ABSOLUTELY NO PREGNANT PATIENTS TO DAYTON CHILDREN'S HOSPITAL
- Consider the possibility of ectopic pregnancy in females of child-bearing age.
- Aggressively treat for hypovolemic shock. Do not rely on standard vital sign parameters.
- Give psychological support to patient and family.
- Be sure to take all expelled tissue to the hospital.
- Ask for first day of last menstrual period.
- Pregnant patients of any age ≥ 20 weeks gestation should be taken to maternity department; < 20 weeks gestation should go to the emergency department.
- Pregnant trauma patients should be rapidly transported to an Adult Trauma Center with labor and delivery capabilities

CARDIAC ARREST IN PREGNANCY

- Causes of cardiac arrest include: pulmonary embolism, trauma, hemorrhage, and congenital or acquired cardiac disease.
- Load and go to closest hospital and follow all cardiac arrest protocols en route.
- To minimize effects of the fetus pressure on venous return, apply continuous manual displacement of the uterus to the left, or place a pillow under the right abdominal flank and hip.
- Administer chest compressions slightly higher on the sternum than normal.

THIRD TRIMESTER BLEEDING

- Place patient in left lateral recumbent position.
- Apply continuous manual displacement of the uterus to the left or place a wedge (pillow) under the right abdominal flank and hip.

CHILDBIRTH

General Considerations

- Transport to a hospital with obstetrical capabilities unless delivery is imminent (the baby is crowning during a contraction).
- Visualize the perineal area only when contractions are less than five minutes apart.
- Place a gloved hand inside the vagina only in the case of breech delivery with entrapped head, or prolapsed umbilical cord.
- Apply gentle pressure on the baby's head with a flat hand to prevent an explosive delivery.
- Run reports must be completed for each patient. The newborn is a separate patient from the mother.

Specific Care

- Obtain history of patient condition and pregnancy, including contraction duration and interval, due date, first day of last menstrual period, number of pregnancies, number of live children, prenatal care, multiple births, possible complications, and drug use.
- Keep newborn warm.
- Cut the umbilical cord and then place the baby to suckle at the mother's breast.
- Obtain one, five and ten minute APGAR scores if time and patient condition permit.

NOTE: Fundal Height refers to the level of the upper part of the uterus.

Changes in Fundal Height During Pregnancy:

Above the symphysis pubis:

>12-16 weeks gestation

At the level of the umbilicus: 20 weeks

Near the xiphoid process: within a few weeks of term

DELIVERY COMPLICATIONS

• Place mother on O_2 by NRB.

• Cord around baby's Neck:

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

• Breech Delivery:

- When the appendages or buttocks first become visible, transport patient immediately to the nearest facility.
- o If the head is caught, support the body and insert two fingers forming a "V" around the mouth and nose.

• Excessive Bleeding:

- Treat for shock.
- o Post-delivery, massage uterus firmly and put baby to mother's breast.

• Prolapsed Cord:

- o When the umbilical cord is exposed prior to delivery, check cord for pulse.
- o Transport immediately with hips elevated and a moist dressing around cord.
- Insert two fingers to elevate presenting part away from cord, distribute pressure evenly if occiput presents.
- o Do not attempt to reinsert cord.

NEWBORN CARE & RESUSCITATION

General Considerations

- **P** As soon as the baby is born:
 - o Dry and warm.
 - o Maintain airway. Place in the sniffing position (1" towel under shoulders).
 - O Suction only infants in distress, until airway is clear of all secretions.
- P If the newborn delivers with meconium-stained amniotic fluid, but is vigorous, with strong respirations, good muscle tone, and heart rate > 100 BPM; follow the same suctioning procedures as for infants with clear fluid.
- **P** If the newborn delivers with meconium-stained amniotic fluid and is depressed, has poor respiratory effort, decreased muscle tone, or heart rate < 100 BPM; suction *before* taking other resuscitative steps.
- P Bulb suctioning is preferred. Mechanical suction may be used on infants only if the suction pressure does not exceed 100 mmHg or 136 cmH₂O.
- P If drying and suctioning has not provided enough tactile stimulation, try flicking the infant's feet or rubbing the infant's back. If this stimulation does not improve the infant's breathing, then BVM assist may be necessary.
- P Avoid direct application of cool oxygen to infant's facial area as may cause respiratory depression due to a strong mammalian dive reflex present immediately after birth.
- **P** Use length-based resuscitation tape (e.g., Broselow Tape).

Specific Care

- **P** After delivery of the infant;
 - o Assess the airway and breathing.
 - o Dry.
 - o Position head lower than body.
- P Ventilate with BVM at 40-60/min:
 - o To increase HR if < 100
 - o For apnea or persistent central cyanosis.

- P HR < 60 begin CPR.
 - o Compress at 120/min.
 - o Compression to Ventilation ratio of 3:1

Obtain **APGAR** scores at 1, 5 and 10 minutes post-delivery.

| SCORE | 0 | 1 | 2 |
|--------------|--------------|-----------------------------|-----------------|
| Appearance | Blue or pale | Body pink; extremities blue | Completely pink |
| Pulse | Absent | Slow (< 100) | > 100 |
| Grimace | No response | Grimace | Cough or sneeze |
| Activity | Limp | Some flexion of extremities | Active motion |
| Resp. effort | Absent | Slow or Irregular | Good crying |

Viable Fetus

- **P** A fetus is viable if:
 - o > 23 weeks gestation
 - o Eyelids not fused
 - o If available, must be > 500 grams
- **P** If en-caul, open the sac and check for viability.

SAFE HARBOR

- P Voluntary Separation of Newborn Infant
- **P** Safe Harbor (Ohio House Bill 660) is designed to allow desperate parents to separate from their babies to hospitals, EMS, or law enforcement agencies, confidentially.
- P Stipulations of separation:
 - o Infant can be no more than 30 days old.
 - o Infant can have no signs of abuse or neglect.
- **P** History which should be obtained:
 - o Date and time of birth
 - o Any family medical history
 - o Information regarding prenatal care
 - o Information about the birth.
- P Information should be obtained in a manner which will not lead to the revealing of the identity of the parents. Information collected should be based on patient (infant) care needs and assure confidentiality.
- P Transport the infant to the hospital.

FEVER

P Transport all infants < 2 months of age with a history or reported temperature of > 38.0 $^{\circ}$ C. (100.4 $^{\circ}$ F.) or < 35.6 $^{\circ}$ C. (96.0 $^{\circ}$ F.).

APPARENT LIFE-THREATENING EVENT (ALTE)

An Apparent Life-Threatening Event involves any infant < 1 year of age that is witnessed with a frightening event by an observer and involves some combination of the following:

Apnea
Choking or gagging
Color change (cyanosis, pallor)
Change in muscle tone (limpness, sometimes rigidity)

*Children who experience an ALTE event often times have a normal exam on assessment. However, they should be transported to the hospital for further assessment. It is possible they have a serious underlying condition and the observed symptoms may reoccur. Assume the history given by the caregiver is accurate. Be persistent about the seriousness of the event and the need to transport.

- Also referred to as a BRUE (Brief Resolved Unexplained Event)
- Support ABCs
- Obtain a medical history- most common causes of ALTE include: gastroesophageal reflux disease (GERD), nervous system disorders (such as seizures or brain tumors), and infections (such as meningitis). Less common causes include heart disorders, metabolic disorders, child abuse, and narrowing or blockage of the airways. A cause cannot be determined in 50% of ALTE cases.
- Perform a complete a Head–to-Toe physical exam.
- Keep warm, transport to the hospital

THE FOLLOWING SHOULD BE NOTED, BUT NOT LIMITED TO:

Document symptoms of the event given by the observer:

- Was the child apneic, cyanotic or limp during event?
- Infant's color, respirations and muscle tone
- Was seizure-like activity noted?
- Was any resuscitation attempted or did event resolve spontaneously?
- How long did the event last?

Past Medical History:

- Recent trauma, infection (e.g., fever, cough)
- History of gastroesophageal reflux (GERD)
- History of congenital heart disease
- History of seizures
- Medication history
- Birth defects

Examination/Assessment:

- Head-to-Toe exam for trauma, bruising, or skin lesions
- Check anterior fontanel: is it bulging, flat or sunken?
- Pupillary exam
- Respiratory exam for rate, pattern, work of breathing and lung sounds
- Cardiovascular exam symmetry of brachial and femoral pulses
- Neuro exam for level of consciousness

Observe for repeat of reported occurrences

PEDIATRIC ABUSE or NEGLECT

- P Ohio Revised Code requires that EMS providers report incidents of abuse to their county's children's services agency, or to a municipal or county peace officer. Hospitals have copies of the GDAHA-supplied EMS Social Services Referral Form. These should be used both to report cases of abuse to the appropriate agencies and to allow hospital social services staff to provide a continuum of care.
- P Simply notifying hospital personnel about concerns of maltreatment do not meet mandated EMS reporting responsibilities. If any maltreatment is suspected, the EMS provider MUST, by law, notify the local public children services agency or law enforcement as soon as possible.

| Pediatric Public Social Services Agencies | | | | |
|-------------------------------------------|----------------|----------------------------------|----------------|--|
| County | Phone | After Hours Phone | Fax | |
| Butler | (513) 887-4055 | (513) 868-0888 | (513) 887-4260 | |
| Champaign | (937) 484-1500 | Contact County SO (937) 484-6092 | (937) 484-1506 | |
| Clark | (937) 327-1700 | (937) 324-8687 | (937) 327-1910 | |
| Darke | (937) 548-7129 | (937)-548-2020 | (937) 548-8723 | |
| Greene | (937) 562-6600 | (937) 372-4357 | (937) 562-6650 | |
| Miami | (937) 335-4103 | Contact County SO (937) 440-3965 | (937) 339-7533 | |
| Montgomery | (937) 224-5437 | (937) 224-5437 (same as daytime) | (937) 276-6597 | |
| Preble | (937) 456-1135 | (937) 456-1135 (same as daytime) | (937) 456-6086 | |
| Shelby | (937) 498-4981 | Contact County SO (937) 498-1111 | (937) 498-1492 | |
| Warren | (513) 695-1558 | (513) 695-1600 | (513) 695-1800 | |

ADULT ABUSE or NEGLECT

- A EMS MUST, by law, report all alleged or suspected adult abuse or neglect to the appropriate agency. Ohio Revised Code requires providers to report incidents of abuse to their county's adult protective services agency or local law enforcement as soon as possible. Simply notifying hospital personnel about concerns of maltreatment does NOT meet the mandated EMS reporting responsibilities.
- A Hospitals have copies of the GDAHA-supplied EMS Social Services Referral Form. These should be used both to report cases of abuse to the appropriate agencies and to allow hospital social services staff to provide a continuum of care. EMS departments may contact GDAHA at 228-1000 or www.gdaha.org for a supply of these forms.
 - White copy—send to the appropriate agency (call as well).
 - Yellow copy—leave with the hospital records.
 - o Pink copy—retain with EMS copy of the run sheet...
- A Document all efforts that EMS made to report the suspected abuse on the run sheet; include name of agency notified, method used, and name of person contacted.

| Adult Public Social Services Agencies | | | |
|---------------------------------------|----------------|--------------------------------------|----------------|
| County | Phone | After Hours Phone | Fax |
| Butler | (513) 887-4081 | Not Listed (County SO: 513-785-1000) | (513) 785-5969 |
| Champaign | (937) 484-1500 | Contact County SO (937) 484-6092 | (937) 484-1506 |
| Clark | (937) 327-1700 | (937) 324-8687 | (937) 327-1910 |
| Darke | (937) 548-7129 | (937)-548-2020 | (937) 548-4928 |
| Greene | (937) 562-6315 | Not Listed (County SO: 937-562-4800 | (937) 562-6177 |
| Miami | (937) 440-3471 | Contact County SO (937) 440-3965 | (937) 335-2225 |
| Montgomery | (937) 225-4906 | Not Listed (County SO: 937-225-4357 | (937) 496-7464 |
| Preble | (937) 456-1135 | (937) 456-1135 (same as daytime) | (937) 456-6086 |
| Shelby | (937) 498-4981 | Contact County SO (937) 498-1111 | (937) 498-1492 |
| Warren | (513) 695-1420 | (513) 425-1423 | (513) 695-2940 |

PATIENT CAPACITY and CONSENT, PSYCHIATRIC and COMBATIVE PATIENTS

Per Ohio Revised Code, an EMT, AEMT, or a Paramedic may not "pink slip" (transport to the hospital for mental health evaluation against their will) an individual who is alert and oriented, even if they are threatening harm to themselves or others. Only a health officer (such as police, crisis worker, psychiatrist, or physician) can pink slip a person. The GMVEMSC strongly recommends that each EMS department, in consultation with its medical director and local law enforcement, have a procedure to deal with these types of situations. This does not preclude action being taken to prevent imminent harm to the patient or others, if it is safe to do so.

- Determine patient capacity and consent.
- Obtain medical history:
 - o Suicidal or violent history
 - o Previous psychiatric hospitalization, when and where
 - o Location where patient receives mental health care
 - o Medications, recreational drugs/alcohol: amount, names
- Do not judge, just treat.
- Transport all patients who are not making rational decisions and who are a threat to themselves or others for medical evaluation. Threat of suicide, overdose of medication, drugs or alcohol and threats to the health and well-being of others are considered not rational.
- Consider a patient to be incapable to make medical decisions if they are:
 - o Suicidal
 - Confused
 - o Severely developmentally or mentally disabled and injured/ill
 - Intoxicated
 - o Injured/ill with an altered mental status
 - o Physically or verbally hostile
 - Unconscious
- Consider and treat possible medical causes for patient's condition:
 - o Hypoxia
 - Hypoglycemia
 - o Drug intoxication and side effects or drug withdrawal
 - Seizures and postictal states
 - o Intracranial hemorrhages
- Consider staging until police have made the scene safe.
- Have patient searched for weapons.
- Do not transport a restrained patient in the prone position with hands and feet behind their back or sandwiched between backboards or other items.
- Recheck often a restrained patient's ability to breathe.
- Have the ability to remove restraints if the patient vomits or develops respiratory distress
- Explain the need for restraint to the patient.
- Document thoroughly the restraints used, on which limbs, and justification for restraints.
- A In most cases transport a mental health patient to the facility where the individual has been previously treated since they will have the patient's records.

 In all other cases, patients should be transported to the closest ED.
- P Pediatric patients with mental health issues should be transported to Dayton Children's Hospital.
- Our region has limited inpatient hospital beds for mental/behavioral health (MH/BH) patients. Most hospitals in our region do not have an inpatient MH/BH unit.
- In many cases resulting from a general 9-1-1 call for MH/BH issues, the patient will be treated and released, and can adequately be cared for in **any** ED. Further, all of these patients require medical screening.
- It is difficult for law enforcement or EMS to triage MH/BH patients who require inpatient treatment from those who don't.
- When patients have been seen on the same day by a MH/BH professional (e.g., Crisis Care, Eastway, etc.) who indicates to EMS that the patient will need inpatient hospitalization, the MH/BH professional should provide appropriate paperwork at the

- time of transport, and may indicate where the patient should be transported, with one option being the closest hospital.
- **A** When calls are received directly from adult patients, take the patient preferentially to a facility where the individual has previously been treated and where the patient's medical records and providers are available.
- **A** In all other cases, adult patients should be transported to the closest ED.
- **P** Pediatric patients (< age 16) with MH/BH issues, including those with underlying medical issues, should be transported to Dayton Children's Hospital Emergency Department.
- Exceptions to the above:
 - It is medically necessary to transport the patient to the closest hospital for stabilization.
 - It is unsafe to transport the patient to the preferred/recommended facility due to adverse weather or ground conditions or excessive transport time.
 - Transporting the patient to the preferred/recommended facility would cause a critical shortage of local EMS resources.
 - Patient requests transport to a different facility.

SALT TRIAGE SYSTEM (MCI)

The SALT (Sort, Assess, Life-Saving Intervention, Treatment/Transport) triage system was developed by the Centers for Disease Control and Prevention (CDC) to address limitations in START and other triage systems. It has been endorsed by numerous national EMS groups. It is designed to reduce triage time and has an additional triage category to better utilize resources, and CDC has proposed SALT as the national standard for MCI triage.

Use **SALT** triage to assess any significant number of victims rapidly. It can be used easily and effectively by all EMS personnel. Triage materials, such as new tags, were provided to EMS agencies throughout our region by a federal grant through Dayton MMRS.

Primary and Secondary Triage Prior to Transport

- Initial Triage
 - Ouse triage ribbons (color-coded strips), not triage tags, during initial triage. One should be tied to an upper extremity in a VISIBLE location (on the right wrist, if possible).
 - RED Immediate
 - YELLOW Delayed
 - GREEN Minimal
 - GRAY Expectant*
 - BLACK Dead (both ribbons and triage tags use a black & white Zebra stripe rather than black for easier visibility in low light).
 - ORANGE and Polka Dot Ribbon used in addition to one of the above ribbons to indicate victim has been contaminated with a hazardous material. The dots are to make the Orange easier to distinguish from Red.
 - Move as quickly and safely as possible, making quick decisions. Remember that the victim
 will be re-triaged, probably multiple times, and the category may be revised, up or down,
 whenever needed.
 - Over-triage can be as harmful as under-triage. If everyone is tagged red, those who are truly red will receive delayed treatment, delayed transport, and delayed definitive care.

NOTE: Expectant does NOT mean dead.

- It means the patient is unlikely to survive given the current resources.
- Treatment and transport should be delayed until more resources, field or hospital, are
 available. If there are delays in the field, consider requesting orders for palliative care,
 e.g., pain medications if time and resources allow.
- Secondary Triage
 - o Secondary Triage **must** be performed on all victims prior to transport.
 - o Treatment Area may also be the Casualty Collection Point (CCP), or the CCP may be separate.
 - Patients should be reassessed periodically, including when moved to a CCP, or when their condition or resources change.
 - o Utilize Triage Tags and complete pertinent and available information on the tag.
 - Affix the tag to the victim using the triage ribbon.
 - Tags are applied after patients enter the Treatment Area or CCP, or by Transport Group if the patient is being directly removed without going to the Treatment Area.
 - o Orange Ribbons (indicating contaminated patients) are removed during decon.
 - EMS always has responsibility for performing primary decontamination prior to transport, however, the hospital must be aware of both contamination and decontamination.
 - When contaminated patients are discovered, each of those patients initially receives two ribbons: one with a triage category (Red, Yellow, Green, Gray, or Black Zebra, and the other the Orange polka-dot ribbon.
 - Make sure to decon under the ribbons.
 - After patients are deconned, the orange ribbon is removed
 - Triage Tags for such patients get two check marks on the Orange strip: both Dirty and Decontaminated. That way the hospitals know the patient has had field decon, but may still be somewhat "dirty".

- Notify hospitals of an MCI involving victim contamination. Consider use of the Regional Hospital Notification System.
- Use Triage Tags with individual barcodes consistent with this Standing Order and the Ohio patient tracking system (OHTrac).
- Priority for transport is determined in the Treatment Area or by the Transport Group.
- Patient allocation, that is, distribution of patients among various hospitals, is one of EMS' most crucial tasks.
 - o **Do not overload any hospital**, regardless of transport distance to other hospitals.
 - o In an MCI, many trauma patients will need to be transported to non-Trauma Centers. **All hospitals** will accept and stabilize trauma patients during MCIs.
 - As Transport assigns patient allocation, consider the likelihood that the closest hospitals may be overwhelmed by patients who were not transported by EMS.
 - o In large scenarios, consider activation of the Forward Movement of Patients Plan.
 - An introduction to Forward Movement of Patients is included in these Standing Orders under the heading Crisis Standards of Care in Massive Events. Full information on the process can be found in the Dayton MMRS Regional MCI Plan Template.

SORT, ASSESS, LIFE-SAVING INTERVENTION, TREATMENT/TRANSPORT PROCESS S – Sort

- Global Sorting: Action 1
 - O Action: "Everyone who can hear me please move to [designated area] and we will help you" (use loudspeaker if available)
 - o Goal: Group ambulatory patients using voice commands
 - o Result: Those who follow this command last priority for individual assessment (Green)
 - Assign someone to keep them together (e.g., PD, FD, a bystander) and notify Incident Command or EMS Group/Branch of number of patients and their location. *Do not forget* these victims. Someone must re-triage them as soon as possible.
 - o In smaller incidents, such as a motor vehicle crash with a few victims where you do not want any of them to move on their own, skip Action 1, and go to Global Sorting Action 2
- Global Sorting: Action 2
 - Action: "If you need help, wave your arm or move your leg and we will be there to help you as soon as possible"
 - Goal: Identify non-ambulatory patients who can follow commands or make purposeful movements
 - o Result: Those who follow this command second priority for individual assessment
- Global Sorting: Result
 - o Casualties are now prioritized for individual assessment
 - Priority 1: Still, and those with obvious life threat
 - Priority 2: Waving/purposeful movements
 - Priority 3: Walking
- Begin assessing all non-ambulatory victims where they lie, performing the four Life Saving Interventions (LSIs) as needed, but only within your scope of practice, and only if the equipment is readily available.
- Each victim must be triaged as quickly as possible.

Assess:

• Is the patient breathing?

- o If not, open the airway. In children, consider giving two rescue breaths.
- o If the patient is still not breathing, triage them to **BLACK**, using a zebra-striped ribbon. Do not move the patient except to gain access to a living patient.
- o If patient is breathing, conduct next assessment.

Assess for the following:

- o Can the patient follow commands or make purposeful movements?
- o Does the patient have a peripheral pulse?
- Is the patient not in respiratory distress?

- o Is hemorrhaging under control?
 - If the answer to <u>any</u> of those questions is <u>no</u> and the patient <u>IS likely to survive</u> given current resources, tag them as **RED** (Immediate).
 - If the answer to <u>any</u> of those questions is <u>no</u> and the patient is <u>NOT likely to survive</u> given current resources, tag them as **GRAY** (Expectant).
 - If the answer to all of those questions is <u>yes</u> but injuries are not minor and require care, tag patient as **YELLOW** (**Delayed**).
 - YELLOWs have serious injuries and need care, though not as urgently as REDs. On secondary triage, some Yellows will need higher priority transport than others.
 - If the answers to **all** of those questions is <u>yes</u> and the injuries are minor, tag patient as **GREEN (Minimal)**.

Two mnemonics for the four Assess Questions:

- o CRAP:
 - C Follows Commands
 - R No Respiratory Distress
 - A No (uncontrolled) Arterial bleeding
 - P Peripheral Pulse Present
- A second mnemonic is the use of good or bad. Don't be confused by the double negatives in two of the questions. Instead, think of the questions in terms of "bad" or "good". If the answer to the questions is "bad" (i.e., can't follow commands, absent peripheral pulse, respiratory distress, or uncontrolled hemorrhage are all "bad"), then the patient is tagged either RED or GRAY.

Life Saving Interventions:

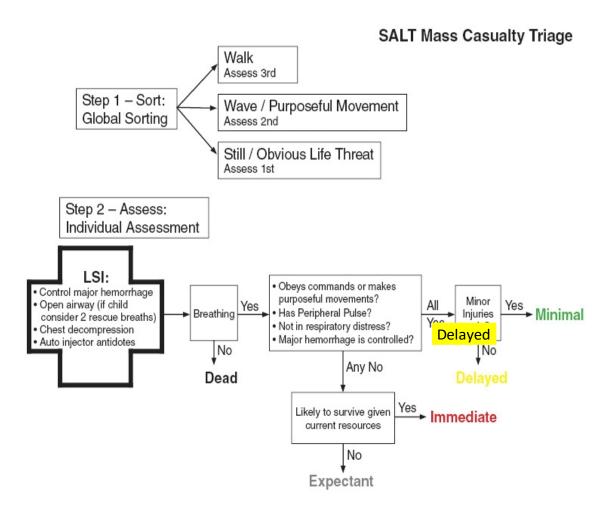
- Only correct life-threatening problems during triage.
 - Control major hemorrhage
 - Open airway (if child, consider giving two rescue breaths)
 - Needle chest decompression
 - Auto injector antidotes

Treatment, Transport:

- Transport/treatment priority is typically given to **RED** (**Immediate**), **YELLOW** (**Delayed**), then **GREEN** (**Minimal**).
 - o **GRAY** (Expectant) patients should be treated or transported as resources allow.
- Patients should be reassessed periodically, including when moved to the CCP, or when their condition <u>or resources</u> change.

Special Considerations:

• Even after applying Triage Tags, the main indicator of patient condition is the Triage Ribbon. If the patient's condition or the triage priority changes, indicate that on the tag. Continue to use the same tag, even if the condition changes repeatedly, changing the ribbon to indicate the patient's current condition.



CRISIS STANDARDS OF CARE IN MASSIVE EVENTS

Some incidents are so large as to require extraordinary EMS procedures. Those scenarios are sometimes referred to as Mass Casualty Events (MCEs), instead of Mass Casualty Incidents (MCIs). This Standing Order introduces EMS procedures which could be utilized in very large emergency scenarios, or when the duration is extended.

"Crisis Standards of Care" is a new term, but not a new concept. EMS uses altered standards during triage. With concerns about pandemics, there is more planning for possible crises. Crisis Standards of Care during an MCE may be partially issued by the State, and could result in a temporary expansion of the EMS scope of practice.

In some circumstances, EMS may be authorized to triage selected patients for transport to other healthcare facilities. These could include Urgent Care Centers, an "Acute Care Center" (ACC) or a "Neighborhood Emergency Help Center" (NEHC), or a Disaster Medical Assistance Team (DMAT).

Dayton MMRS is required to have a plan called, "Forward Movement of Patients." The intent of this plan is to relieve the burden on local hospitals by transporting patients, possibly directly from the scene, to more distant hospitals.

In the event of an MCE, especially one lasting days or longer, Greater Miami Valley EMS Council, with the approval of the Regional Physicians Advisory Board (RPAB), may promulgate "Just in Time Standing Orders" (JITSO). With approval from Ohio Department of Public Safety, these orders might include triage standards for transport to other healthcare facilities and other crisis standards of care; possibly exceeding the standard scope of practice for EMS.

A regional protocol for Functional Needs Shelter Triage has been added to the Optional Standing Orders Manual and is also available at gmvemsc.org on the Training Materials page. The protocol is used to help determine whether individuals with functional needs can be safely sheltered in a Red Cross Shelter during a disaster.

This Shelter Triage Protocol is a pre-approved Just-In-Time Standing Order (JITSO), authorized by the RPAB for use by an EMS agency assisting the Red Cross with shelter Triage. It is intended to be printed and given to paramedics, nurses, and other healthcare personnel at the time of a shelter operation.

At the option of local department chiefs and medical directors, the same protocol can be used during a disaster to determine patients who would be more appropriate for transport to Red Cross Shelters than to hospitals. That concept was endorsed by RPAB, and was used on the East Coast during Hurricane Sandy. In those cases, EMS should, if possible, contact the shelter before transporting. If locations or contact information for shelters is not known, contact the County EMA or the Red Cross. When transporting these non-emergency patients to shelters, it is critical that the patients bring their medications and medical equipment with them.

HAZMAT

Initial Actions

- Personnel safety
 - o Consider potential for secondary devices.
 - o PPF
 - Personnel & Equipment staging
- Call for additional resources.
 - o (Medic Units, Engines for personnel/resources/Decon, **Haz-Mat**, Law Enforcement, etc.)
- Field Decontamination
 - o Remove **all** contaminated clothing. This action may remove as much as 85% of solid or liquid and virtually all of gaseous contaminants.
 - o Thoroughly wash with {Dawn} dishwashing detergents paying special attention to skin folds and other areas where simple irrigation may not remove it.
 - o If a patient has been contaminated with any fuel, irrigate well. For example, diesel fuel can cause chemical burns if left in contact with the skin.
 - o Do not transport a patient until gross decon is completed.
 - Obtain permission from hospital upon arrival **before** entering with a potentially contaminated patient or crew.
 - o Decontaminate EMS vehicle prior to leaving hospital.
- Contact Medical Control and the hospital immediately to allow time for their set-up of decontamination equipment.
 - o Provide the following information:
 - Estimated number of confirmed or potential adult and pediatric patients
 - Signs and symptoms exhibited by the patients
 - Name and identification information of the contaminant if known, or as much information as possible
 - Form of the contaminant (liquid, gas, etc.) if known
 - Routes of exposure of the patients (percutaneous, inhalation, ingestion, etc.) if known
 - Additional anticipated decontamination needs if necessary
 - ◆ In the event of an MCI involving cyanide or nerve agents, request an "Antidote free" order, allowing you to treat all of the patients on the scene with the appropriate antidote, rather than calling for patient orders individually.

HAZARDOUS DRUG: EXPOSURES AND SPILLS

- Hazardous drug situations include:
 - o Patients who have continuous IV chemotherapy at home.
 - o Patients who have just had IV chemotherapy at the clinic or hospital and their body fluids could have traces of hazardous drug for 48 hours.
 - o Patients taking oral chemotherapy drugs.
- Potential routes of exposure include:
 - o Absorption through skin or mucous membranes
 - Accidental injection by needle stick or contaminated sharps
 - o Inhalation of drug aerosols, dust, or droplets
 - o Ingestion through contaminated food, tobacco products, beverage, or other hand-to-mouth behavior
- EMS should don PPE whenever there is a risk of hazardous drug being released into the environment.
 - o Handling leakage from tubing, syringe, and connection sites
 - o Disposing of hazardous drugs and items contaminated by hazardous drugs
 - o Handling the body fluids of a patient who received hazardous drugs in the past 48 hours
 - Cleaning hazardous drug spills
- Guidelines for PPE:
 - O Gloves: Double gloves are recommended. Latex gloves provide no chemical protection. Nitrile gloves are recommended for routine patient care of Haz-mat patients including chemo patients. Change gloves every 30 minutes.

- o Disposable non-permeable gowns
- o Respirators: NIOSH-approved respirator mask
- o Eye and face protection: wear a face shield whenever there is a possibility of splashing.

Procedures:

- Use universal precautions when handling any body fluids of a patient who has received chemotherapy within 48 hours.
- o Accidental skin exposure: Remove contaminated garments, place in leak-proof plastic bag, and immediately wash contaminated skin with soap and water. Rinse thoroughly.
- Accidental eye exposure: immediately flush eye with saline solution or water for at least 30 minutes or until patient transport is completed.
- Wipe up liquids with an absorbent pad or spill-control pillow.
- Disposal of hazardous drugs and materials contaminated with hazardous drugs per MSDS or Haz Mat Team direction
- o Report and document spills as required.
- For more information, contact:
 - The homecare agency that is supplying the infusion.
 - o The physician who ordered the infusion.
 - O A hospital pharmacy, if necessary (there should be a label on the IV bag with the drug's name, concentration and dosage.
 - o Consult with the appropriate Haz-Mat team.

HazMat: Biological

- {In preparation for the possibility of a bioterrorist attack, Departments may store a supply of **Ciprofloxacin (Cipro)** or **Doxycycline**. They can provide prophylaxis against Anthrax, Cholera, and some protection against Plague.}
- Dayton MMRS maintains a supply of **Cipro** and **Doxy** sufficient to provide treatment for the first three days for all firefighters, EMS personnel, law enforcement officers, EMA personnel, public safety dispatchers, and their immediate families for use in a bioterrorist attack. These may be obtained when needed by contacting **937-333-USAR** (**8727**).

HazMat: Cvanide

• See Burns or Smoke Inhalation

HazMat: Hydrofluoric Acid (HF)

- Deaths have been reported from burns involving < 3% Body Surface Area. Ensure safety of EMS.
 - o Begin decon and irrigate the chemical burn with water as quickly as possible.
- Flush affected eyes and skin with copious amounts of water or **Normal Saline** for a minimum of 30 minutes or until patient transport is completed.
- If ingested, do not induce vomiting. Dilute with water or milk.
- {Perform a 12-lead EKG and transmit it to the hospital}

HAZMAT: ORGANOPHOSPHATE, NERVE AGENT

ORGANOPHOSPHATE, NERVE AGENT EXPOSURE TREATMENT

General Considerations:

- Signs and Symptoms:
 - o SLUDGEMM: <u>Salivation</u>, <u>Lacrimation</u>, <u>Urination</u>, <u>Defectation</u>, <u>GI Upset</u>, <u>Emesis</u>, <u>Miosis</u>, <u>Muscle Twitching</u>
- Mild to moderate cases should be treated with one or two doses of Duodotes.
- Severe cases will generally require repeating every 5 minutes up to 3 doses.
- Atropine in these circumstances is **not** for bradycardia, which may or may not be present.
- Primary endpoints for treatment are diminished airway secretions (lungs are clear to auscultation), hypoxia improves, airway resistance decreases, and dyspnea improves

- Organophosphate poisonings may require more Atropine (3 DuoDotes).
- Ohio law and GMVEMSC Standing Orders permit EMRs and EMTs to administer Organophosphate/nerve agent antidotes by auto-injector only.
- Nerve agent/organophosphate antidotes are to be used to treat symptomatic patients, not given prophylactically

Specific Care: Organophosphate or Nerve Gas Poisoning

- Oxygen
- Treat any case of known or suspected Organophosphate or Carbamate (e.g., insecticides such as Parathion or Malathion); or nerve agent (e.g., Tabun, Sarin, Soman, VX) exposure as below:
- Administer **Atropine** every 5 minutes, as available until lungs are clear to auscultation. **Atropine** by **DuoDote**.
- Adults and children > 40 kgs, give **DuoDote**, or **Atropine 2 mg IM**
- Treat seizures with **Diazepam Auto-injector (CANA)**.

Administering the Nerve Agent Antidote Auto-Injector Kit:

- Anterolateral thigh is the recommended auto-injector site for both adults and pediatrics.
- Using the Duodote
- Procedures for DuoDotes, pediatric AtroPens, and Diazepam auto-injectors are the same as for Epi-Pens

Antidote Resources:

EMS Department Resources:

- {EMS Departments are authorized to stockpile large quantities of **Atropine**, **2-PAM**, autoinjectors, and supplies (e.g., needles, syringes)}.
- GMVEMSC drug bags include:
 - 2 DuoDotes (Atropine (2 mg) and 2-PAM (600 mg) administered through a single autoinjector).
 - o **2 Pediatric AtroPens** (1 each: 0.5 mg, 1.0 mg)
 - o 1 Multi-dose 1 mg vial of **Atropine**
- Dayton MMRS maintains a supply of organophosphate and cyanide antidotes in each county in Ohio Homeland Security Region 3.
 - o To obtain Dayton MMRS antidotes: call **937-333-USAR** (**8727**). The closest department with an antidote cache will respond as a mutual aid request.
 - o Dayton MMRS antidotes may be requested for incidents too small to require a CHEMPACK.
 - If requesting a CHEMPACK, simultaneously call 937-333-USAR (8727) and request MMRS antidotes.

CHEMPACK Resources:

- Containers with enough antidotes to treat about 500 victims of a nerve agent or organophosphate incident
- CHEMPACK procurement:
 - ♦ Obtain MCP approval
- In an MCI, contact OSP Central Dispatch 866-599-LERP (5377) and request a CHEMPACK and indicate that it meets both of the following criteria:
 - The Organophosphate or nerve agent has been identified, or patients are exhibiting signs and symptoms of exposure.
 - o **AND** the need for antidotes is greater than the available resources.
 - Simultaneously contact 937-333-USAR (8727) and request additional Nerve Agent Antidotes:
 - Regional drug cache to be used for incidents too small for a CHEMPACK
 - Has additional drugs that are not available in the CHEMPACK (e.g., Cyanide antidotes)

- OSP Central Dispatch will:
 - Notify closest CHEMPACK hospital
 - o Dispatch Troopers to deliver the CHEMPACK to the MCI's staging area.
 - o Troopers will expect EMS to sign a form indicating receipt.
- CHEMPACK contains:
 - o Atropine—blocks effects of excess acetylcholine
 - 0.5 mg AtroPen auto-injectors (for patients < 20 kgs)
 - 1.0 mg AtroPen auto-injectors (for patients 20-40 kgs)
 - Multi-dose vials
 - o **Pralidoxime Chloride (2-PAM)**—reduces levels of acetylcholine
 - 600 mg auto-injectors
 - Multi-dose vials
 - o **Diazepam (Valium)**—treats seizures.
 - Convulsive Antidote, Nerve Agent (CANA) (10 mg Diazepam auto-injector)
 - Multi-dose vials
 - CHEMPACK types
 - O Hospital CHEMPACK contains more multi-dose vials for more precise dosing of children and long-term patients. Hospital CHEMPACKs are partitioned into thirds, each being marked with a red, yellow, or blue dot. Hospitals have the option to keep the red dot materials for potential use at their hospital. If a hospital opens its CHEMPACK, it must notify OSP Central Dispatch. (Hospitals may also request material from Dayton MMRS by calling 937-333-USAR (8727).
 - o EMS CHEMPACK contains more auto-injectors for ease of administration in the field.
- Limitations of CHEMPACKs:
 - Only useful against nerve agents or organophosphate
 - o Only to be utilized when other resources are inadequate for number of victims.
 - o CHEMPACKs opened contrary to guidelines will not be replaced by CDC and will result in the loss of a \$250,000 asset.

HAZMAT: PEPPER SPRAY

• **{Sudecon Wipes}** can assist in the decontamination of patients or public safety personnel who have been sprayed with Pepper Spray.

REGIONAL HOSPITAL NOTIFICATION SYSTEM (RHNS)

Our area now has a Regional Hospital Notification System. The purpose is to provide one number for EMS, hospitals, and EMAs to call that will make rapid, simultaneous notifications in a Mass Casualty Incident/Event (MCI/MCE), or other major emergency.

The system can be used when an incident could involve a significant number of the region's hospitals. To activate the system, an incident commander calls **937-333-USAR** (**8727**), and requests a "Regional Hospital Notification." The agency calling must ask for a Dispatch Supervisor, and should provide the information below:

- Name of agency
- Nature of emergency
- Location of emergency
- General statement on severity, such as approximate number of victims
- Any other information to be conveyed

The Montgomery County Regional Dispatch Center (RDC) will immediately put out a computerized message to the RHNS Group with that information.

ABBREVIATIONS

Some abbreviations are case sensitive while others are content sensitive. Any words that can be readily abbreviated using a period have been left out of this list.

| -1. 1 | -11 |
|----------------------------------------|--------------|
| abdomen | abd |
| abdominal aortic aneurysm | AAA |
| abortion | Ab |
| acute coronary syndrome | ACS |
| acute myocardial infarction | AMI |
| acute pulmonary edema | APE |
| acute renal failure | ARF |
| acute respiratory distress/syndrome | ARD/ARDS |
| administer rectally | nr |
| advanced cardiac life support | p.r. ACLS |
| advanced directive | AD |
| | ALS |
| advanced life support | |
| after | p p |
| against medical advice | AMA |
| alcohol | ЕТОН |
| alert & oriented | A&O |
| alert/verbal/pain/unresponsive | AVPU |
| antecubital fossa | AC |
| arteriosclerotic heart disease | ASHD |
| as necessary or needed | prn |
| as soon as possible | ASAP |
| aspirin | ASA |
| at | @ |
| at bedtime | h.s. |
| atrial fibrillation | a-fib |
| atrial flutter/ tachycardia | AF/AT |
| atrioventricular | AV |
| automatic external defibrillator | AED |
| automatic transport ventilator | ATV |
| backboard | BB |
| bag-valve mask | BVM |
| basic life support | BLS |
| before | ā |
| below the knee amputation | BKA |
| births, number of | para |
| black | В |
| blood pressure | BP |
| blood sugar | BS |
| body substance isolation | BSI |
| body surface area | BSA |
| bowel movement | BM |
| bradycardia | brady |
| breaths per minute | bpm |
| by mouth | ро |
| by or through | |
| - | per CA |
| cancer | CRT |
| capillary refill time | |
| carbon dioxide | CO_2 |

| | T ~~ |
|------------------------------------------|-------------|
| carbon monoxide | CO |
| centimeter | cm. |
| cerebral palsy | CP |
| cerebrospinal fluid | CSF |
| cerebrovascular accident | CVA |
| cervical immobilization device | CID |
| cervical spine | C-spine |
| change | Δ |
| chest pain | CP |
| chief complaint | CC |
| chronic obstructive pulmonary disease | COPD |
| chronic renal failure | CRF |
| circulatory/sensory/motor | CSM |
| clear to auscultation bilaterally | CTAB |
| complaining of | c/o |
| congestive heart failure | CHF |
| | CABG |
| coronary artery disease | CABG |
| coronary artery disease cubic centimeter | |
| | CC. |
| date of birth | DOB |
| dead on arrival | DOA |
| decreasing | ↓ |
| degree(s) | |
| delirium tremens | DT's |
| dextrose in water – 50% | D50 |
| dextrose in water - 10% | D10 |
| diabetes mellitus | DM |
| diagnosis | Dx |
| dilation & curettage | D&C |
| discontinue | d/c |
| do not resuscitate | DNR |
| drop (s) | gtt (s) |
| dyspnea on exertion | DOE |
| electrocardiogram | ECG / EKG |
| emergency department | ED / ER |
| endotracheal tube | ETT |
| epinephrine | EPI |
| Equal to or greater than | <u>></u> |
| Equal to or less than | <u><</u> |
| esophageal detection device | EDD |
| esophageal obturator airway | EOA |
| estimated | Est. |
| estimated time of arrival | ETA |
| every | q |
| external jugular vein | ĒJV |
| fever of unknown origin | FUO |
| for example | e.g. |
| foreign body | FB |
| | 1 |

| four times a day | aid |
|--------------------------------|-----------|
| four times a day fracture | qid fx |
| | |
| French | Fr. |
| gallbladder | GB GI |
| gastrointestinal | Ga |
| gauge | |
| Glasgow Coma Scale | GCS |
| gram | g or gm |
| greater than | > |
| gunshot wound | GSW |
| hazardous materials | HazMat |
| head, ears, eyes, nose, throat | HEENT |
| Headache | H/a |
| heart block | HB |
| heart rate | HR |
| history | Hx |
| hypertension | HTN |
| Incident Command | IC |
| increasing | ↑ |
| inferior | inf. |
| insulin dependent diabetes | IDDM |
| intercostal space | ICS |
| intracranial pressure | ICP |
| intramuscular | IM |
| intranasal | IN |
| intraosseous | IO |
| intravenous | IV |
| intravenous push | IVP |
| joule | J |
| jugular venous distension | JVD |
| Kendrick Extrication Device | KED |
| kilogram | kg |
| labor & delivery | L&D |
| last normal menstrual period | LNMP |
| left | (L) |
| Left lower/upper extremity | LLE/LUE |
| Left lower/upper lobe | LLL/ LUL |
| left lower/upper quadrant | LLQ/LUQ |
| left bundle branch block | LBBB |
| less than | < |
| lights and siren | L&S |
| liters per minute | lpm |
| liter | L. |
| loss or level of consciousness | LOC |
| mass casualty event | MCE |
| mechanism of injury | MOI |
| medial | med. |
| medical control physician | MCP |
| metered dose inhaler | MDI |
| microgram | mcg. |
| milliequivalent | mEq |
| milligram | mg. |
| | |

| milliliter (same as cc.) | ml. |
|------------------------------------|-------------|
| motor vehicle collision | MVC |
| multiple casualty incident | MCI |
| multiple sclerosis | MS |
| myocardial infarction | MI |
| nasal cannula | NC |
| nasopharyngeal airway | NPA |
| nausea & vomiting | N&V |
| newborn | NB |
| nitroglycerine | NTG |
| no known drug allergies | NKDA/NKA |
| non-rebreather mask | NRM |
| nonsteroidal anti-inflammatory | NSAID |
| normal saline | NS |
| normal saline lock | NSL |
| normal sinus rhythm | NSR |
| not applicable / available | n/a |
| nothing by mouth | NPO |
| O2 % of arterial blood | SpO2 |
| obstetrics | OB |
| oropharyngeal airway | OPA |
| over the counter | OTC |
| overdose | OD |
| packs per day | p/d |
| parts per million | ppm |
| past medical history | PMH |
| patient | pt. |
| pelvic inflammatory disease | PID |
| penicillin | PCN |
| peptic ulcer disease | PUD |
| peripheral inserted central cath | PICC |
| pharyngo tracheal lumen airway | PtL |
| pregnancies, number of | Gravida |
| premature ventricular complex | PVC |
| prior to my arrival | PTA |
| pulmonary embolism | PE |
| pulse | P |
| pulse, motor, sensation | PMS |
| pulseless electrical activity | PEA |
| pupils (=) round reactive to light | PERRLA |
| & accommodation | FERRLA |
| right bundle branch block | RBBB |
| right lower/upper extremity | RLE/RUE |
| right lower/upper lobe | RLL/RUL |
| right middle lobe | RML |
| rapid sequence induction | RSI |
| respiratory rate | RR |
| returned to service | RTS |
| rheumatic heart disease | RHD |
| right | R |
| right lower/upper quadrant | RLQ/ RUQ |
| secondary / second degree | 2° |
| sedate to intubate | StI |
| | |

| sexually transmitted disease | STD |
|------------------------------|---------|
| shortness of breath | SOB |
| signs/symptoms | S/S |
| sino-atrial | SA |
| sinus bradycardia | SB |
| sinus tachycardia | ST |
| standard operating procedure | SOP |
| standing orders | SO |
| ST Elevation MI | STEMI |
| subcutaneous | SQ |
| sublingual | SL |
| sudden infant death syndrome | SIDS |
| supraventricular tachycardia | SVT |
| symptoms | Sxs |
| systolic blood pressure | SBP |
| tachycardia | tach(y) |
| temperature | T |
| temporomandibular joint | TMJ |
| that is | i.e. |
| three times a day | tid |
| tibia | Tib |
| times | × |
| to keep open | TKO |
| tourniquet | TQ |
| tracheal deviation | TD |
| transport | Tx |
| transcutaneous pacing | TCP |
| transfer | x-fer |

| Transient ischemic attack | TIA |
|-----------------------------|-----------|
| treatment/medication | Rx |
| tuberculosis | TB |
| twice a day | bid |
| unconscious | unc. |
| unequal / not equal | # |
| Unified Command | UC |
| unknown | unk. |
| upper/lower | U/L |
| upper respiratory infection | URI |
| urinary tract infection | UTI |
| ventricular fibrillation | VF/ VFib |
| ventricular tachycardia | VT/ VTach |
| vital signs | VS |
| warm & dry | w/d |
| week | wk. |
| weight | wt. |
| white | W |
| with | ē |
| within normal limits | WNL |
| without | s̄ or w/o |
| Wolff Parkinson-White | WPW |
| year | yr. |
| years old | y/o or yo |
| | |
| | |
| | |
| | |

RIGHTS OF MEDICATION ADMINISTRATION

1. Right Medication

- a. Make sure that the medication is the correct medication indicated by the GMVEMS Standing Orders and check it against the medication label.
- b. Double-check the generic vs. non-generic names of medications. Many names are similar and have a potential for error. If you aren't sure, reference your SO Manual or Quick Reference Guide!
- c. Check the expiration date on the label.

2. Right Patient:

- a. Confirm patient ID and confirm absence of allergies or other contraindications for your patient.
- b. In multiple patient or mass casualty situations, confirm that the medication is being delivered to the correct patient.

3. Right Dose:

- a. Check the SO dose against the medication label for the **correct concentration**.
- b. Recheck dosage calculations and verify accuracy.
- c. Confirm that the correct dose has been drawn up.
- d. Use your references!

4. Right Route:

- a. Check the standing order and the medication label for the correct route.
- b. Confirm the route of administration for the medication; IM, PO, IN, Neb.
- c. Confirm that the dose is correct for the chosen route, since some dosages will vary depending on the route.
- d. Make sure the route is accessible.

5. Right Time:

a. Give the medication over the proper time duration per the Standing Orders.

6. Right Documentation:

a. Document medication, dose, time of administration and duration of administration, route and patient response.

RUN DOCUMENTATION REQUIREMENTS

Every crew transporting a patient is expected to provide a full run sheet to the hospital. An abbreviated version of a run report, sometimes called a "quick sheet" may be left at the time of transport, but the hospital MUST receive a full, final copy of the run sheet within three hours (with rare exceptions, e.g., major incidents). When a quick sheet is used, it MUST include (at a minimum) all the following:

- Patient's full name
- Age
- Chief complaint
- History of the Present Illness/MOI
- PMH
- Medications
- Allergies
- Vital signs with times
- Prehospital assessment and interventions along with the timing of any medication or intervention and patient response to such interventions

GMVEMSC PROTOCOL DRUG INFORMATION STATEMENT:

The information provided on the following pages is for reference only and should not be used as the definitive answer on when and how to administer any drug contained in this document. If there is a conflict between the following pages and the actual information contained in the protocol, default to the information contained within the protocol section of this document. The protocol committee tries to ensure that all information is accurate and correct however, if you encounter a conflict and are unsure of how to proceed contact a Medical Control Physician.

ALBUTEROL (Proventil)

PACKAGED: Metered Dose Inhaler (MDI)

INDICATION:

Asthma/Emphysema/COPD Bronchospasm in Asthma/COPD Allergic reaction with wheezing

ADULT:

2 puffs from inhaler

PEDI:

2 puffs from inhaler

THERAPEUTIC ACTION:

Bronchodilator

CONTRAINDICATIONS:

Prior hypersensitivity reaction to Albuterol Cardiac dysrhythmias associated with tachycardia.

PRECAUTIONS AND SIDE EFFECTS:

Usually dose related, restlessness, apprehension, dizziness, palpitations, tachycardia, dysrhythmias May precipitate angina pectoris and dysrhythmias

REQUIRES MCP:

ADULT: To assist with patient's own: No

PEDI: To assist with patient's own: No

ALBUTEROL (Proventil)

PACKAGED: 2.5 mg in 3 ml plastic ampule

INDICATIONS:

Asthma, Emphysema, COPD Bronchospasm in Asthma, COPD Allergic reaction with wheezing

ADULT:

2.5 mg (3 ml), nebulized with O₂ at 8-10 LPM Combine Ipratropium with first dose of Albuterol. May repeat Albuterol up to 2 times for a total of 3 doses

PEDI:

2.5 mg (3 ml), nebulized with O₂ at 8-10 LPM Combine Ipratropium with first dose of Albuterol. May repeat Albuterol up to 2 times for a total of 3 doses

THERAPEUTIC ACTION:

Bronchodilator

CONTRAINDICATIONS:

Prior hypersensitivity reaction to Albuterol, Cardiac dysrhythmias associated with tachycardia.

PRECAUTIONS AND SIDE EFFECTS:

Once initiated, the patient should be removed by EMS. Usually dose related. Restlessness, apprehension, dizziness, palpitations, tachycardia, dysrhythmias May precipitate angina pectoris and dysrhythmias

REQUIRES MCP:

ADULT: Yes PEDI: Yes

ASPIRIN (Abbreviated as ASA)

PACKAGED: 81mg. tablets in blister pack, times 4

INDICATION:

Suspected Cardiac chest pain, patient must be at least 25 years old. ASA should be given as soon as possible to the patient with symptoms of Acute Coronary Syndrome (ACS) including anginal chest pain, shortness of breath, syncope, diaphoresis, weakness, nausea or vomiting. Patient **MUST CHEW** the aspirin.

ADULT:

324 mg. = 4 chewable 81 mg tablets—MUST CHEW!

PEDI:

N/A

THERAPEUTIC ACTION:

Anti- platelet

CONTRAINDICATIONS:

Hypersensitivity to salicylates Active ulcer disease Bleeding disorders Third Trimester

PRECAUTIONS AND SIDE EFFECTS:

Stomach irritation, heartburn or indigestion, nausea or vomiting, allergic reaction

REQUIRES MCP:

Adult assist with own: No

ADULT from drug bag: Yes

PEDI: N/A

ATROPINE PACKAGED:

2 mg AtroPen auto-injector (in Chempack and Drug Cache) 1 mg AtroPen auto-injector (in Chempack and Drug Cache) 0.5 mg AtroPen auto-injector (in Chempack and Drug Cache)

.

NOTE:

Atropine is one component of the DuoDote (in with the HazMat Drugs in GMVEMSC Drug Bags).

INDICATION:

Organophosphate or Nerve Agent poisoning (regardless of cardiac rate)

ADULT:

Organophosphate or Nerve Gas poisoning: Duodote until lungs are clear to auscultation. There is no max dose for Atropine for Organophosphate or Nerve Agent poisoning.

PEDI:

.Organophosphate or Nerve Gas poisoning: Atropine or (AtroPen) Auto-injector.

< 20 kgs: 0.5 mg (AtroPen) Auto-injector 20 - 40 kgs: 1.0 mg (AtroPen) Auto-injector > 40 kgs: 2.0 mg (AtroPen) Auto-injector

There is no max dose for Atropine for Organophosphate or Nerve Agent poisoning.

THERAPEUTIC ACTION:

Anticholinergic

CONTRAINDICATIONS:

None for severe organophosphate exposure.

Tachvcardia

Hypersensitivity to Atropine

Obstructive disease of GI tract

Obstructive neuropathy

Unstable cardiovascular status in acute hemorrhage with myocardial ischemia

Narrow angle glaucoma

Thyrotoxicosis

PRECAUTIONS AND SIDE EFFECTS:

Tachycardia, paradoxical bradycardia when pushed too slowly or when used at doses less than 0.5 mg, palpitations, dysrhythmias, headache, dizziness, anticholinergic effects (dry mouth, nose, skin, photophobia, blurred vision, urinary retention, constipation), nausea, vomiting, flushed hot dry skin, allergic reactions

Atropine causes papillary dilation rendering the pupils nonreactive. Pupil response may not be useful in monitoring CNS status.

REQUIRES MCP:

ADULT: Organophosphate Nerve Agent Poisoning—Yes

PEDI: Organophosphate Nerve Agent Poisoning—Yes

DIAZEPAM (Valium) CANA Pen

PACKAGED: 10 mg auto-injector

INDICATION: Seizures associated with Organophosphate or Nerve Agent MCI.

NOTE: Available in CHEMPACK and Drug Cache.

THERAPEUTIC ACTION:

Treats alcohol withdrawal and grand mal seizure activity, used to treat anxiety and stress

CONTRAINDICATIONS:

PRECAUTIONS AND SIDE EFFECTS:

Hypotension, reflex tachycardia (rare), respiratory depression, ataxia, psychomotor impairment, confusion, nausea

May cause local venous irritation

DOSE:

ADULT: 10 mg IM Auto-injector PEDI: 10 mg IM Auto-injector

REQUIRES MCP: ADULT: Yes

PEDI: Yes

DUODOTE

PACKAGED: Auto-injector 2 mg Atropine and 600 mg Pralidoxime Chloride (2-Pam)

NOTE: Available in CHEMPACK and Drug Cache

INDICATION:

Organophosphate or Nerve Agent Poisoning

ADULT:

Single auto-injector containing 2 mg Atropine and 600 mg 2-Pam > 40 kgs (See individual drug listing for specific information on drugs)

PEDI:

Single auto-injector containing 2 mg Atropine and 600 mg 2-Pam > 40 kgs

THERAPEUTIC ACTION:

Anticholinergic as a result of WMD MCI; also reactivates cholinesterase

CONTRAINDICATIONS:

PRECAUTIONS AND SIDE EFFECTS:

Tachycardia, paradoxical bradycardia when pushed too slowly or when used at doses less than 0.5 mg, palpitations, dysrhythmias, headache, dizziness, anticholinergic effects (dry mouth, nose, skin, photophobia. blurred vision, urinary retention, constipation), nausea, vomiting, flushed, hot, dry skin, allergic reactions.

Atropine causes papillary dilation rendering the pupils nonreactive. Pupil response may not be useful in monitoring CNS status.

Use with caution in myasthenia gravis, renal impairment, pregnancy, lactation or children.

REQUIRES MCP:

ADULT: Yes PEDI: Yes

EPINEPHRINE EPIPEN

PACKAGED: Auto-injector: Adult 0.3 mg
Or Junior 0.15 mg

INDICATION:

Anaphylaxis/Allergic Reaction

ADULT:

Anaphylaxis:

If \geq 30 kg, give both Adult EpiPen and EpiPen Jr If \geq 15 kg and < 30 kg, give Adult EpiPen.

PEDI:

Anaphylaxis:

Patient < 15 kg; EpiPen Jr.

If symptoms persist, may repeat in 5 minutes

THERAPEUTIC ACTION:

Directly stimulates alpha and beta adrenergic receptors in dose-related fashion Causes bronchodilation, vasoconstriction, and increased cardiac output

CONTRAINDICATIONS:

PRECAUTIONS AND SIDE EFFECTS:

Headache, nausea, restlessness, weakness, dysrhythmias, including ventricular tachycardia and ventricular fib, hypertension, precipitation of angina pectoris, tachycardia

May increase myocardial oxygen demand

Syncope has occurred following epinephrine administration to asthmatic children

REQUIRES MCP:

ADULT: No PEDI: No

IPRATROPIUM (Atrovent)

PACKAGED: 0.5 mg in 2.5 ml plastic ampule

INDICATIONS:

Bronchospasm in Asthma or COPD Allergic Reaction or Anaphylaxis with wheezing

ADULT:

 $0.5\ mg\ (2.5\ ml)$, nebulized with O_2 at $8\text{-}10\ LPM$ Combined with first dose of Albuterol

PEDI:

0.5 mg (2.5 ml) nebulized with O_2 at 8-10 LPM Combined with first dose of Albuterol

THERAPEUTIC ACTION:

Causes bronchodilation by anticholenergic effect

CONTRAINDICATION:

PRECAUTIONS AND SIDE EFFECTS:

Use with caution in patients with narrow-angle glaucoma and lactating mothers.

REQUIRES MCP:

ADULT: Yes PEDI: Yes

NALOXONE (Narcan)

PACKAGED: 2 mg in 2 ml vial, 1 mg/ml

NOTE: Naloxone administration should be to improve respirations in an unresponsive patient with a hypoventilation condition and not to awaken an unconscious patient. It should be given slowly. Narcan can precipitate narcotic withdrawal with all of its problems. If the patient has a pulse, Naloxone should be given before intubation. Once Naloxone is administered, it is encouraged that the patient be removed by EMS.

MOST PEDIATRIC PATIENTS WITH RESPIRATORY DEPRESSION DO NOT HAVE NARCOTIC OVERDOSE. THEY ARE EITHER SEPTIC OR HAVE RESPIRATORY FAILURE.

INDICATIONS:

Respirations depressed or high index of suspicion of narcotic overdose. Suspicion of drug abuse in cardiac arrest.

ADULT:

Up to 4 mg intranasally, IN, using MAD. May repeat every 2 minutes as needed. Ttitrate to adequate respirations.

REPEAT DOSES MAY BE GIVEN BY EMTS

PEDI:

P Naloxone:

- $\circ \le 20 \text{ kg } 0.1 \text{ mg/kg IN}$, (max dose 2 mg). May repeat x one.
- \circ > 20 kg **2 mg IN.** May repeat as needed.
- o Titrate to adequate respirations. If respirations don't improve after 2 minutes, repeat.

REPEAT DOSES MAY BE GIVEN BY EMTS

THERAPEUTIC ACTION:

A competitive narcotic antagonist

CONTRAINDICATIONS:

Hypersensitivity

Use with caution in narcotic-dependent patients who may experience withdrawal syndrome (including neonates of narcotic-dependent mothers).

PRECAUTIONS AND SIDE EFFECTS:

Tachycardia, hypertension, dysrhythmias, nausea and vomiting, diaphoresis, blurred vision, opiate withdrawal.

May not reverse hypotension.

Caution should be exercised when administering to narcotic addicts (may precipitate withdrawal with hypertension, tachycardia and combative behavior).

After administration of **Naloxone**, patient transport is encouraged by EMS.

REQUIRES MCP:

ADULT: No PEDI: No

NITROGLYCERINE (abbreviated as NTG in the orders)

(Nitrostat)

PACKAGED: Dark brown glass bottle, 0.4 mg SL tablet

INDICATIONS:

Use only in patients who are at least 25 years old and have been prescribed Nitroglycerine.

Cardiac related chest pain

Pulmonary edema with systolic BP over 100 mmHg

Crack/Cocaine Overdose with chest pain

ADULT:

0.4 mg SL every 5 min for continued chest pain up to a total of 3 tablets

PEDI:

N/A

THERAPEUTIC ACTION:

Vasodilator which decreased preload and to a lesser extent, afterload

CONTRAINDICATIONS:

Hypotension Use of sexual enhancement drugs in last 24 hours

Taking Revatio (a pulmonary hypertension medication)

Head injury

PRECAUTIONS AND SIDE EFFECTS:

Transient headache, reflex tachycardia, hypotension, nausea & vomiting, postural syncope, diaphoresis

REQUIRES MCP:

ADULT: To assist with patient's own: No From drug bag: Yes

PEDI: N/A

ORAL GLUCOSE

PACKAGED: Tube; concentration varies, check label.

INDICATION:

Hypoglycemia

Generalized hypothermia without arrest

Altered level of consciousness of unknown cause

Seizures with BS < 60 no BS monitor available or strong suspicion of hypoglycemia despite BS reading and no IV access

ADULT:

1 tube

May be repeated in 10 min. if BS remains < 60

PEDI:

1 tube

May be repeated in 10 min if BS remains < 60

THERAPEUTIC ACTION:

Raise blood glucose concentration.

CONTRAINDICATION:

Inability to control the airway

PRECAUTIONS AND SIDE EFFECTS:

Use caution when giving to unresponsive patients. Hyperglycemia

REQUIRES MCP:

ADULT: No

PEDI: No

PRALIDOXIME (2-PAM)

PACKAGED: 600 mg Auto-injector

INDICATION:

To be used following Atropine in Organophosphate, or Nerve Gas Poisoning both for treatment of civilian patients at the scene, as well as for protection of public safety personnel who walk into scene & become unexpectedly contaminated.

ADULT:

600 mg IM Auto-injector

PEDI:

Children > 20 kg: 600 mg IM Auto-injector

THERAPEUTIC ACTION:

Reactivates cholinesterase after poisoning with anticholinesterase agents (Organophosphate or Nerve Gas)

Reverses muscle paralysis after organophosphate poisoning

CONTRAINDICATION:

Hypersensitivity

PRECAUTIONS AND SIDE EFFECTS:

Use with caution in myasthenia gravis, renal impairment, pregnancy, children. Can spread to child through breast feeding

REQUIRES MCP:

ADULT: Yes
PEDI: Yes

GREATER MIAMI VALLEY EMS COUNCIL **2020 EMT SKILL SHEETS**

Revised: 12/2020

EMTS: Use these skill sheets and protocol to study for Skills Testing.

SKILLS TESTERS: Record Pass/Fail on Individual's Test Summary Sheet. Use these and additional adult/pediatric mega code sheets as guidelines for grading. It is only necessary to make enough copies of this packet for testers (those who have gone through Skills Evaluator sessions).

| Adult Mega Code - Separate EMT Mega Code sheets used for testing. | |
|-------------------------------------------------------------------|----|
| Automated External Defibrillator | 67 |
| CPAP | 63 |
| Supraglottic Airway Device | 69 |
| | |
| Medications | |
| Medication Administration | 65 |
| IN Medication Administration | 64 |
| Nebulized Medication Administration | 66 |
| Optional Skills | |
| Acquisition of 12-lead EKG | 68 |

Adult Protocol Skill Evaluation CPAP Assessment and Application

| NAME: DATE: | | | |
|------------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|
| Level:EMTAdvancedParamedic | | | |
| STEPS | 1 st Test | 2 nd Test | 3 rd Test |
| Prepares patient: | | | |
| Takes or verbalizes appropriate PPE precautions | | | |
| Assures adequate blood pressure 100 Systolic | | | |
| Positions patient in a position that will optimize ease of ventilation | | | |
| Assesses patient to identify indications for CPAP: | | | |
| Asthmatic | | | |
| Congestive heart failure | | | |
| Pulmonary edema | | | |
| COPD | | | |
| Assesses patient to identify contraindications for CPAP: | | | |
| Pt must be age 16 or older | | | |
| Unconscious, unresponsive, inability to protect airway or inability to | | | |
| speak | | | |
| Inability to sit up | | | |
| Respiratory arrest or agonal respiration | | | |
| Nausea/vomiting | | | |
| Hypotension – Systolic <100 | | | |
| Suspected pneumothorax | | | |
| Cardiogenic shock | | | |
| Penetrating chest trauma | | | |
| Facial anomalies/trauma/burns | | | |
| Closed head injury | | | |
| Active upper GI bleeding or history of recent gastric surgery | | | |
| Selects, checks and assembles equipment: | | | |
| Assembles mask and tubing according to manufacturer instructions | | | |
| Coaches patient how to breathe through mask | | | |
| Connects CPAP unit to suitable O2 supply and attaches breathing | | | |
| circuit to device | | | |
| Turns on oxygen | | | |
| Sets device parameters, if applicable (end at 10 cm H ₂ O) | | | |
| Performs procedure: | | | |
| Places mask over patients mouth and nose (leave EtCO2 in place, if | | | |
| applicable) | | | |
| End at 10 cm H ₂ O for treatment | | | |
| Coaches patient to breathe normally | | | |
| Frequently reassesses patient for desired effects | | | |
| Decreased ventilatory distress | | | |
| SpO2 >92% | + | | |
| Decreased adventitious lung sounds | + | | |
| Absence of reactions (barotrauma, pneumothorax) | + | | |
| Records settings/readings and documents appropriately | + | | |
| i i i i i i i i i i i i i i i i i i i | i | 1 | i |

Adult Protocol Skill Evaluation Intranasal Medication Administration

| NAME: | | | | DATE: | |
|--------|-------|--------|----------|------------|--|
| | E) (D | F) (F) | | 5 " | |
| Level: | EMR | EMT | Advanced | Paramedic | |

| STEPS | 1 st | 2 nd | 3 rd |
|------------------------------------------------------------------------|-----------------|-----------------|-----------------|
| | Test | Test | Test |
| Assures that patient is being ventilated adequately, if necessary | | | |
| Asks patient for known allergies | | | |
| Clearly explains procedure to patient | | | |
| Selects, checks and assembles equipment | | | |
| Medication | | | |
| Appropriate syringe, needle and mucosal atomizer device (MAD®) | | | |
| Sharps container | | | |
| Alcohol swabs | | | |
| Sterile gauze | | | |
| Administers medication | | | |
| Selects correct medication by identifying | | | |
| Right patient | | | |
| Right medication | | | |
| Right dosage/concentration | | | |
| Right time | | | |
| Right route | | | |
| Also checks medication for: | | | |
| Clarity | | | |
| Expiration date | | | |
| Assembles syringe and needle while maintaining sterility | | | |
| Cleanses rubber stopper, draws appropriate amount of medication into | | | |
| syringe and dispels air while maintaining sterility | | | |
| Reaffirms medication | | | |
| Disposes of needle in proper container and attaches mucosal atomizer | | | |
| device | | | |
| Takes or verbalized appropriate PPE precautions | | | |
| Stops ventilation of patient, if necessary and removes mask | | | |
| Inserts mucosal atomizer device into nostril and briskly depresses the | | | |
| syringe plunger (1/2 medication up each nostril) | | | |
| Disposes/verbalizes proper disposal of syringe and MAD | | | |
| Resumes ventilation of patient, if necessary | | | |
| Verbalizes need to observe patient for desired effect and side effects | | | |

ADULT PROTOCOL SKILL EVALUATION

SUBJECT: MEDICATION ADMINISTRATION

| NAME | | DATE | |
|--------|-----|----------|--|
| | | | |
| LEVEL: | EMT | | |

| STEPS – Focus is achieving the "Rights" which is expanded to six. | 1st Test | 2nd Test | 3rd Test |
|-------------------------------------------------------------------------|-------------|-------------|-------------|
| ASPIRIN | 1000 | 2000 | 1000 |
| A. RIGHT PATIENT - List the indications for the medication. | | | |
| B. RIGHT MEDICATION - Check the medication for; medication | | | |
| name, expiration date and for cloudiness or discoloration. | | | |
| C. RIGHT DOSE – Discuss cardiac arrest vs. non-arrest | | | |
| D. RIGHT ROUTE - List the routes of administration. | | | |
| E. RIGHT TIME – List duration of infusion or frequency of repeat | | | |
| dose. | | | |
| F. RIGHT DOCUMENTATION | | | |
| | | | |
| DUODOTE | | | |
| A. RIGHT PATIENT – List the indications for the medication. | | | |
| B. RIGHT MEDICATION – Check the medication for name, | | | |
| expiration date and for cloudiness or discoloration. | | | |
| C. RIGHT DOSE – Discuss nerve agent or organophosphate exposure | | | |
| D. RIGHT ROUTE – Discuss the location for administration | | | |
| E. RIGHT TIME – How long should the injection take? | | | |
| F. RIGHT DOCUMENTATION | | | |
| | | | |
| EPIPEN ADMINISTRATION | | | |
| A. RIGHT PATIENT - List the indications for the medication. | | | |
| B. RIGHT MEDICATION - Check the medication for; medication | | | |
| name, expiration date and for cloudiness or discoloration. | | | |
| C. RIGHT DOSE – Indicate when both EpiPens are needed. Discuss | | | |
| cardiac arrest vs. non-arrest | | | |
| D. RIGHT ROUTE - List the routes of administration. | | | |
| E. RIGHT TIME – List duration of infusion or frequency of repeat | | | |
| dose. | | | |
| F. RIGHT DOCUMENTATION | | | |
| | | | |
| <u>NITROGLYCERIN</u> | | | |
| A. RIGHT PATIENT - List the indications for the medication. | | | |
| B. RIGHT MEDICATION - Check the medication for; medication | | | |
| name, expiration date and for cloudiness or discoloration. | | | |
| C. RIGHT DOSE – Discuss cardiac arrest vs. non-arrest | | | |
| D. RIGHT ROUTE - List the routes of administration. | | | |
| E. RIGHT TIME – List duration of infusion or frequency of repeat | | | |
| dose. | | | |
| F. RIGHT DOCUMENTATION | | | |
| | | |] |

Adult Protocol Skill Evaluation Nebulized Medication Administration

| NAME: | | | | DATE: | | | |
|--------|-------|----------|-------------|-------|--|--|--|
| | | | | | | | |
| Level: | EMT _ | Advanced | Paramedic_ | | | | |

| STEPS | 1 st | 2 nd | 3 rd |
|---------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|-----------------|
| | Test | Test | Test |
| Assures that patient is being ventilated adequately, if necessary | | | |
| Asks patient for known allergies | | | |
| Clearly explains procedure to patient | | | |
| Selects, checks and assembles equipment | | | |
| Medication | | | |
| Nebulizer unit (medication cup, mouthpiece/mask, extension tube, etc.) | | | |
| Oxygen supply tubing | | | |
| Administers medication | | | |
| Selects correct medication by identifying | | | |
| Right patient | | | |
| Right medication | | | |
| Right dosage/concentration | | | |
| Right time | | | |
| Right route | | | |
| Also checks medication for: | | | |
| Clarity | | | |
| Expiration date | | | |
| Places medication into the nebulizer unit | | | |
| Reaffirms medication | | | |
| Attaches mouthpiece/mask and extension tube to the nebulizer unit | | | |
| Attaches oxygen supply tubing to the nebulizer unit and turns on oxygen until tube/mask is filled with mist of medication | | | |
| Takes or verbalized appropriate PPE precautions | | | |
| Removes oxygen mask and directs patient to firmly hold nebulizer unit | | | |
| Coaches patient how to breathe correctly to inhale all medication | | | |
| Resumes oxygen administration | | | |
| Verbalizes need to observe patient for desired effect and side effects | | | |
| Affective | | | |
| Accepts evaluation and criticism professionally | | | |
| Shows willingness to learn | | | |
| Interacts with simulated patient and other personnel in professional | | | |
| manner | | | |

AUTOMATED EXTERNAL DEFIBRILLATORS

| NAMEDATE | | | |
|---------------------------------------------------------------------------------------|-----------------|-----------------|-----------------|
| LEVEL:ParamedicAdvancedEMTEMR | | | |
| STEPS | 1 st | 2 nd | 3 rd |
| | Test | Test | Test |
| A. Perform an initial assessment of the patient. | | | |
| B. Begin CPR with 100% oxygen while preparing AED. | | | |
| CPR continuously until AED is set-up and attached to patient | | | |
| If witnessed arrest: Defibrillate immediately. | | | |
| o If unwitnessed arrest: Perform CPR for 1-2 minutes prior to | | | |
| defibrillation. | | | |
| CPR continuously until AED is attached to patient. | | | |
| C. Turn on the AED. | | | |
| D. Place the defibrillator pads on the patient. | | | |
| E. Stop CPR. Allow AED to analyze rhythm. | | | |
| F. If shock is advised, clear all personnel from around the patient, and administer a | | | |
| shock. | | | |
| G. Resume CPR with compressions immediately following shock. | | | |
| H. Repeat steps E, F and G, if needed. | | | |

EQUIPMENT:

- 1. A.E.D. per organization type 2. Simulator

ADULT PROTOCOL SKILL EVALUATION SUBJECT: 12-Lead EKG Acquisition

| NAME | LEVEL: _ | EMT | DATE |
|------|----------|-----|------|
| | | | |

| STEPS | 1 st | 2 nd | $3^{\rm rd}$ |
|-----------------------------------------------------------------------|-----------------|-----------------|--------------|
| Student will demonstrate how to acquire a 12-lead EKG, completing the | Test | Test | Test |
| following steps within two minutes: | | | |
| Expose chest | | | |
| Limb lead placement, and placement options | | | |
| Precordial (chest) lead placement, with <u>no</u> deviation | | | |
| Speed (all ten leads must be placed within two minutes) | | | |
| When to acquire according to optional Standing Orders | | | |
| Interface with hospital: | | | |
| Notify if you or machine suspect MI | | | |
| Rapid transport | | | |
| Transmit EKG | | | |
| Artifact, and what to do about it: | | | |
| Skin prep, including hair removal | | | |
| Electrode attachment | | | |
| Patient movement | | | |
| Cable movement | | | |
| Vehicle movement | | | |
| EMI | | | |

SUPRAGLOTTIC AIRWAY DEVICE

| NAME | DATE | | | |
|---------------|------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------------------|
| LEVEL: | Paramedic AEMTEMT | | | |
| STEPS | | 1 st Test | 2 nd Test | 3 rd Test |
| List the i | ndications for insertion of a Supraglottic Airway. | | | |
| Select co | rrect size Supraglottic Airway (See manufacturer guidelines). | | | |
| Takes or | verbalizes appropriate PPE precautions. | | | |
| Opens th | e airway manually | | | |
| Elevates | tongue, inserts simple adjunct [oropharyngeal or nasopharyngeal airway] | | | |
| NOTE: 1 | Examiner now informs candidate no gag reflex is present and patient acce | pts adjun | ct | |
| **Ventil oxyg | ates patient immediately with bag-valve-mask device unattached to en | | | |
| **Ventil | ates patient with room air | | | |
| | Examiner now informs candidate that ventilation is being performed with | out difficu | lty and th | at |
| | metry indicates the patient's blood oxygen saturation is 85% | | l | l |
| | oxygen reservoir to bag-valve-mask device and connects to high-flow egulator [12 – 15 L/minute] | | | |
| Ventilate | s patient at a rate of $10 - 12$ /minute (1 ventilation every $5 - 6$ seconds) | | | |
| | appropriate volumes | | | |
| | After 30 seconds, examiner auscultates and reports breath sounds are pres | | _ | • |
| | ical direction has ordered insertion of a supraglottic airway. The examine | r must no | w take ov | er |
| ventilatio | | | T | T |
| | repares supraglottic airway device | | | |
| | es distal tip of the device [may be verbalized] | | | |
| | Examiner to remove OPA and move out of the way when candidate is prep | ared to in | sert devic | e. |
| | head properly | | | |
| | a tongue-jaw lift | | | |
| | evice to proper depth | | | |
| | levice in patient [inflates cuffs with proper volumes and immediately | | | |
| | syringe or secures strap] | | | |
| | s patient and confirms proper ventilation [correct lumen and proper | | | |
| | depth] by auscultation bilaterally over lungs and over the epigastrium | | | |
| | ventilation as necessary [ventilates through additional lumen or slightly | | | |
| | s tube until ventilation is optimized] | | | |
| | proper tube placement by secondary confirmation such as capnography, try, EDD or colorimetric device | | | |
| | The examiner must now ask the candidate, "How would you know if you a | ro dolivor | ina annya | nriata |
| | with each ventilation?" | re uctiver | appro | |
| Secures | levice or confirms that the device remains properly secured | | | |
| Ventilate | s patient at proper rate and volume while observing | | | |
| capn | ography/capnometry and pulse oximeter | | | |

EQUIPMENT:

- 1. Supraglottic Airway Device (correct size)
- 2. Water-soluble lubricant
- 3. Appropriate size syringe4. Bag-valve mask
- 5. Stethoscope
- 6. Secondary confirmation device
- 7. Suction

DRUG BAG EXCHANGE PROGRAM

PURPOSE

To administer and monitor a drug bag exchange program between participating Fire, EMS, Private Ambulance departments and hospitals.

DRUG BAG EXCHANGE COMMITTEE

Co-Chairpersons: 2 Voted members from GMVEMSC

Members: EMS Coordinator from each participating hospital

Pharmacy representative from each participating hospital

Any interested GMVEMSC (Greater Miami Valley EMS Council) member

MEETINGS

Scheduled: One meeting a year

Unscheduled: As needed to discuss problem areas.

OPERATING GUIDELINES

General

- There are two types of drug bags: **ALS/BLS** and **BLS** (fanny pack style).
- All drug bags, both ALS/BLS and BLS, are the property of the GMVEMSC.
- GMVEMSC drug bags are only for use by EMS providers located or stationed within GMVEMSC's region. Agencies may not use GMVEMSC drug bags for runs originating from stations outside of or responding to an address outside of GMVEMSC's region.
- Except in extreme circumstances, a GMVEMSC drug bag should not be used on multiple runs.
- There is an initiation fee for each new bag that EMS agencies add to the program.
- There is an annual maintenance fee for each ALS/BLS bag and BLS bag.
- There is an approved policy for replacement of lost or stolen drug bags (see Addendum A).
- To maintain the integrity of the drug bag contents, pharmacy departments' seal each compartment of stocked drug bags with a blue plastic device. The seal should only be broken for administration of prehospital emergency medical treatment by approved EMS personnel. After prehospital emergency medical treatment use, the drug bag should be cleaned and re-sealed with the red plastic device contained inside each drug bag compartment.
- The following actions may be taken for any department found to be in non-compliance with the Drug Bag Exchange Program Operating Guideline regarding opening and resealing the drug bag:
 - o Notification of the Fire Chief, EMS Administrator, or Private Ambulance Administrator.
 - o The governing agency, e.g., city council, trustees, EMFTS for private ambulance service, will be notified that action is being initiated for the Fire/EMS/Private ambulance service.
 - o Removal of all drug bags from all locations of said Fire/EMS/Private ambulance service.
 - Written notification to the following that the said service is in violation of the operating policy of the Drug Bag Exchange Program:
 - Medical Director
 - Regional Physician Advisory Board
 - OH State Pharmacy Board
 - OH Division of EMS
 - All hospitals participating in the drug bag exchange program
- GMVEMS Council maintains an information database for all EMS personnel authorized to participate in the Drug Bag Exchange Program.
- Rosters with certification expiration dates for EMS providers are available via an online database for review and updates.

PARTICIPATION REQUIREMENTS

Active membership in the GMVEMS Council.

- Each agency in GMVEMSC must understand that Council typically communicates with departments and agencies via email, and that some of those messages concern changes to Standing Orders, pharmaceuticals in our Drug Bags, or other critical issues. Council maintains two lists of emails:
 - The GMVEMSC Listserve
 - A distribution list of Agency Contacts
- As such, to participate in the Drug Bag Program, each agency must provide a minimum of one functioning email contact for each of those lists (may be the same person or different). Council desires to communicate as freely and effectively as possible, and agencies may provide as many as they like for each list, but must have at least one person who can reliably receive messages. Since in rare cases, these messages may be urgent, we encourage use of the "three-deep" rule: provide Council with three (or more) emails for each list.

ADDITIONAL REQUIREMENTS FOR DRUG BAG PROGRAM

- The protocol testing compliance letter (Addendum I) must be signed by the Chief within two weeks after completion of the written testing cycle, then faxed to Council.
- The copy of your license needs to go to Council by March 31 of the calendar year. This is required, as the Pharmacy at each hospital needs your license on file in order to exchange drug bags with your department.
- Complete drug bag updates when scheduled. This is essential. The Pharmacy Board has made it very clear that updates must be completed on time.
- o Provide a signed letter (Addendun C) from each department or agency acknowledging that they must comply with the requirements. This letter will be kept on file with Council.
- No department which participates in the Drug Bag Exchange Program shall possess a DEA License.
- Area hospital participation according to Council guidelines. (See Addendum B).
- Document medical advisor approval for the use of the GMVEMS Council Operating Protocols with a signed, notarized letter, which is attached to the drug license renewal application form with a copy submitted to Council. Notarized letter is not required for renewal unless medications are added or there is a change in Medical Director from previous year.
- Signed agreement to abide by the GMVEMS Council Operating Guidelines for the Drug Bag Exchange Program (see Addendum C).
- Agreement to complete the GMVEMSC annual skills and annual written test between 1 March and 31 May unless otherwise scheduled by Council (see Non-Compliance Procedures).
- Maintain all drugs at all times in a clean, temperature-controlled environment per Rule 4729-33-03(E) of the OH State Pharmacy Board Administrative Code. The rules can be seen at: http://pharmacy.ohio.gov/rules/4729-33-03.pdf
- The ideal temperature span is 59-86 degrees F.
- In order to utilize an ALS/BLS or BLS drug bag in the pre-hospital emergency setting, the following equipment must be available unless otherwise noted.

BLS Provider:

- Oxygen
- Pulse Oximetry
- Extraglottic Airways
- CPAP administration and management
- Oral Glucose
- Glucometry
- Ice Packs
- Suction (non-powered is acceptable)
- AED (if approved by Medical Advisor)

ALS Provider:

Oxygen

- EtCO₂ monitoring and detection for intubated patients (Dectection day 1, Waveform by 2021)
- 12-Lead acquisition, transmission and interpretation by 2021
- MAD
- IO and device
- BAAM
- Digital intubation
- IV pressure infuser
- Suction (non-powered is acceptable)
- Monitor/defibrillator or AED & intubation equipment

LEVELS OF PARTICIPATION

• Paramedic Level

- o Each drug bag consists of a navy, standard issue drug bag. A Paramedic can access any of the compartments of bag to obtain medications per his/her protocol.
- \circ Each standard issue bag is labeled with a metal tag from 850 up.
- Upon completion of a transport, the entire bag is exchanged at the receiving hospital with the appropriate paperwork following the steps above.

• AEMT Level

- o A side compartment labeled "intermediate"
- The AEMT can access compartments to obtain medications per their protocol. They cannot access the Center Inside Compartment.
- Upon completion of a transport, the entire bag is exchanged at the receiving hospital with the appropriate paperwork following the steps above.

• Basic Life Support

- The RED BLS compartment on an ALS/BLS bag or BLS fanny-pack style bag will carry the following medications ONLY: Nitrostat, EpiPen, EpiPen Jr. and baby Aspirin. The EMR & EMT can only access this compartment and the Naloxone compartment to treat his/her patient per protocol
- Airway Compartment on an ALS/BLS bag containing Albuterol and Atrovent may be accessed by the EMT
- o Each bag is labeled with a numeric code.
- Upon completion of a transport, the bag is exchanged at the receiving hospital with the appropriate paperwork following the steps above.

EXCHANGE PROCESS

- Each department is assigned to a "home" hospital. The assigned hospital is the central resource
 for initial fulfillment of medications for the drug bags and wholesale exchanges, replacement, or
 additions as required by revisions to the GMVEMS Council Standing Orders Protocols. Under
 normal operating parameters, drug bags can be exchanged at any participating hospital or within
 the same department.
 - o ALS/BLS bags may be exchanged one-for-one with another ALS/BLS bag. BLS bags may be exchanged one-for-one with another BLS bag.
- EMS providers are required to inventory each opened compartment, discard any used sharps and clean any contaminants from bag used, and apply a red seal before exchanging for a replacement bag. The red seal will be looped through the proximal portion of the zipper tab (not the outermost portion of the zipper tab).
- Once you have verified the contents, seal the compartment with the RED tag, placing the blue seal from the opened compartment back in that compartment, unless there is a discrepancy. If any old blue seals (from previous runs) are found in the compartment, remove them, and send them to the EMS Coordinator for the receiving hospital.

- Any discrepancies (missing meds, expired meds, wrong meds or dose, altered or tampered meds, drug bag number discrepancy, etc.) that are identified shall be reported to the GMVEMSC using the Drug Bag Discrepancy Report. (See discrepancy procedure)
- The primary care provider for the patient is responsible for the inventory of the drug bag prior to sealing it. If two departments have accessed a drug bag, they should jointly seal the drug bag.
- Each hospital designates a specific location for the exchange of drug bags. EMS personnel are
 required to complete the Sign In/Out log when exchanging a drug bag. Once sealed, any
 provider can exchange the drug bag.
- Except when the patient must be removed to a non-participating drug bag exchange hospital or the patient was a non-removal, the drug bag must be exchanged at the time of patient delivery to the hospital. In the case of the exceptions listed, the drug bag must be exchanged at a participating hospital within 8 hours.
- EMS Providers are responsible for ensuring that all blue seals on the new bag are intact when logging out an exchanged bag.

DOCUMENTATION OF DRUG USAGE

- Fentanyl, Ketamine, Morphine, Versed and Valium are controlled drugs. They must be tracked from the time they are dispensed into the drug bag through the time of administration.
- To ensure the medications are properly accounted for, all AEMTs and Paramedics will document:
 - The drug name
 - o The amount used
 - The amount wasted
 - The signature of the two witnesses if wastage (the person wasting the medication can sign as a witness).
- The GMVEMSC run sheets have a dedicated area for this documentation and required signature lines. Those using other types of run sheets should document the above information and the required signatures. Some hospitals also require the use of the GMVEMSC approved Controlled Drug Usage Form in addition to documentation on the run sheet. This GMVEMSC approved form must be filled out for any controlled drug use, even if there is no wastage. This information shall be on both the original EMS department form and the hospital copy for reference if needed.

WASTED DRUG PROCEDURE

- Some hospitals also require the use of the GMVEMSC approved Controlled Drug Usage Form in addition to documentation on the run sheet. This GMVEMSC approved form must be filled out for any controlled drug use, even if there is no wastage. This information shall be on both the original EMS department form and the hospital copy for reference if needed.
- Fentanyl, Ketamine, Morphine, Versed and Valium are controlled drugs. If a medication is only partially administered, the paramedic or AEMT must account for the all of the unused portion.
- To ensure the medications are properly accounted for, all paramedics and AEMTs will document:
 - o The drug name
 - o The amount used
 - o The amount wasted
 - o The signature of a second witness if there is wastage.
- One witness will be the paramedic or AEMT wasting the medication.
- The second witness will be a member of the EMS crew, as many hospital employees are no longer permitted to witness or sign for drug wastage.

GENERAL NON-COMPLIANCE PROCEDURES

- Each department and department medical director(s) will be notified if the annual written test and skills check-off has not been completed within the prescribed time period.
- The Ohio State Board of Pharmacy will be notified that a department or individual members of a department have not completed the annual written test and skills check-off within the prescribed time period.
- Hospital EMS coordinators and pharmacy departments will receive a list of departments or individuals within a department that are not in compliance with the operating guidelines. At the end of the testing season, if a department does not have 100% of their personnel completing both skill and written tests (or explanations for individuals not in compliance) noted in the Standing Orders database, then appropriate action, up to and including the removal of department from the Drug Bag program, may be taken by the chair of the drug bag committee.
- If copy of drug license(s) is not received by due date, GMVEMS Council notifies EMS department medical director. GMVEMS Council reserves the right to initiate the non-compliance action process for any Fire/EMS/Private Ambulance service that does not provide documentation for drug license(s) renewal.

DRUG BAG DISCREPANCIES

- EMS providers are required to inventory each opened pouch prior to applying the red seal.
- All discrepancies (missing meds, expired meds, wrong med or dose, altered or tampered meds, drug bag number discrepancy, etc.) that are identified shall be reported to GMVEMSC using the Drug Bag Discrepancy Report (Addendum E).
- If at any time, an EMS provider encounters a discrepancy he/she will:
 - o Notify his/her EMS Officer of the discrepancy.
 - o If the discrepancy was discovered after opening the bag, retain the blue seal and the hospital sticker that was attached to the drug bag in question.
 - o If the EMS provider is at the hospital, he/she will log the bag in using the normal procedure at that hospital while retaining the blue seal.
 - He/she will advise the pharmacist or EMS Coordinator of the discrepancy and that he/she will be initiating the Discrepancy form as described below (pharmacist may request a copy of the Discrepancy form).
 - The EMS Officer may contact the EMS Coordinator if assistance is needed.

Discrepancies Involving Controlled Drugs and/or Potential Tampering:

- When an issue arises concerning any of the following, a collaborative effort between the EMS organization/provider and the Hospital EMS Coordinator/Pharmacist shall be made in an attempt to resolve the issue:
 - o A controlled drug (Fentanyl, Ketamine, Valium, Versed, or Morphine)
 - o A stolen, missing or lost bag
 - o Any medication that appears to have been altered or tampered with.
- If the issue cannot be resolved, the following steps shall be taken:
 - If the discrepancy was discovered by the EMS organization/provider, the person designated by the organization/provider shall comply with the requirements of OAC 4729-9-15 and GMVEMSC requirements as indicated below.
 - If the discrepancy was discovered by the hospital, the person designated by the hospital shall comply with the requirements of OAC 4729-9-15 and GMVEMSC requirements as indicated below.

- Required reporting for unresolved issues involving Controlled Drug or potential/suspected tampering or lost or stolen drug bags pursuant Federal and State Laws and GMVEMSC Protocol include:
 - o If you have knowledge of or suspect a discrepancy is due to a theft, contact your State of Ohio Board of Pharmacy agent immediately. Advise them you want to report a theft or drug discrepancy. They will connect you with the appropriate person. (OAC 4729-9-15)
 - o File a report with the appropriate law enforcement authorities (ORC 2921.22).
 - Notify the Drug Enforcement Agency (DEA) within 24 hours of discovery using DEA Form 106 available electronically at:
 - https://www.deadiversion.usdoj.gov/webforms/app106Login.jsp. A 30-day extension may be requested in writing from the DEA. (CFR 1301.76(b)).
 - Submit a completed GMVEMSC Drug Bag Discrepancy Report located at Addendum #E, with appropriate supporting documentation, to the GMVEMSC.
- "Dangerous drug" means any of the following:
 - o (1) Any drug to which either of the following applies:
 - Under the "Federal Food, Drug, and Cosmetic Act," 52 Stat. 1040 (1938), 21 U.S.C.A. 301, as amended, the drug is required to bear a label containing the legend "Caution: Federal law prohibits dispensing without prescription" or "Caution: Federal law restricts this drug to use by or on the order of a licensed veterinarian" or any similar restrictive statement, or the drug may be dispensed only upon a prescription;
 - (b) Under Chapter 3715 or 3719 of the Revised Code, the drug may be dispensed only upon a prescription.
 - (2) Any drug that contains a schedule V controlled substance and that is exempt from Chapter 3719. of the Revised Code or to which that chapter does not apply;
 - o (3) Any drug intended for administration by injection into the human body other than through a natural orifice of the human body;
 - o (4) Any drug that is a biological product, as defined in section 3715.01 of the Revised Code.

Discrepancies Not involving Controlled Drugs and/or Potential Tampering

- Examples may include:
 - o Non-controlled drugs that were not in the bag
 - Wrong number of medications or doses
 - Wrong drug concentration
 - Expired medications found
 - No expiration date on tag
 - Medications improperly labeled
 - Empty vials/packaged left in bag. DO NOT PUT ANY USED VIALS BACK IN DRUG BAG
 - Unsealed medications
 - Wrong medication administered
 - Unsealed pouch discovered
 - o Bag logged out with red seal (used bag)
- If discovered by EMS, the EMS Officer will initiate the Discrepancy form. He/she shall provide a copy of the form and the Blue Seal to the Hospital EMS Coordinator and shall fax a copy of the report to the GMVEMSC.
- If the Hospital discovers the discrepancy, the EMS Coordinator will initiate the Discrepancy Form and submit to GMVEMSC. If the EMS Coordinator is able to determine which EMS agency/hospital is responsible for the discrepancy, the agency/hospital will be notified and will receive a copy of the Discrepancy Form and the Blue Seal if applicable.

The GMVEMSC will:

- Maintain a record of all discrepancies that occur.
- Follow up with the agencies involved as needed.
- Advise the Drug Bag Chairperson of any and all discrepancies and action taken.

The Drug Bag Committee Chairperson will:

- Report at the bi-annual Drug Bag Committee meetings for discussion and resolutions to all discrepancies encountered.
- Assist the Council and or affected departments with any issues or questions that may result.

DRUG BAG BLUE SEALS

• Blue seals:

O Blue seals are used by the pharmacy that inventories and restocks the ALS/BLS drug bags. The blue seals will have a hospital sticker attached to the seal that identifies the hospital and pharmacist that inventoried the bag and the expiration date of the next drug to expire. The inner compartment of the ALS bag and Intermediate will be sealed with a blue seal and will have the expiration date noted. The blue seal will be looped through the proximal portion of the zipper tab (not the outermost portion of the zipper tab). EMS should verify the blue seal is intact and has an expiration date before accepting the bag. When EMS opens a drug bag compartment, keep the blue seal in your possession until you have verified the contents are accounted for. Once you have verified the contents, seal compartment with RED tag, placing the blue seal in the compartment, unless there is a discrepancy.

Red Seals:

o Red seals identify ALS/BLS bags as being used. EMS providers are required to inventory each opened pouch, discard any used sharps and clean any contaminants from bag used and then take red seal from the inside compartment (supplied by pharmacy when restocking the ALS/BLS bag) and seal the used compartment. The red seal will be looped through the proximal portion of the zipper tab (not the outermost portion of the zipper tab).

Hospital Pharmacies should use the same style colored seals to maintain continuity of the system. Hospital pharmacists can purchase these seals through the GMVEMSC office.

Departments are required to have a tracking system that tracks all drug bag exchanges.

ADDENDUM A

Lost or Stolen Drug Bag Policy

RE: Lost or Stolen Drug Bags

APPROVED: October 2017

PURPOSE: To provide a uniform mechanism for the reporting of lost or stolen drug bags.

EMS DEPARTMENT SHALL:

• Anyone with a State of Ohio Board of Pharmacy (SOBP) license must notify the SOBP <u>immediately upon discovery</u> of a theft or possibility of a theft, 614-466-4143.

- Develop and implement an internal search mechanism for lost drug bags. The internal search mechanism should include:
 - o Determine if drug bag was left at the scene.
 - o Determine if drug bag was not exchanged on last run.
 - o Determine if drug bag is in the wrong vehicle.
- The GMVEMSC will seek the assistance of the Drug Bag Co-Chair to check with all hospitals to determine if the bag might be in inventory or be alerted if it shows up at one of the hospitals.
- EMS Officer will initiate the Drug Bag Discrepancy Form and follow instructions for reporting lost or stolen drug bags. Completed paperwork and reports will be submitted to GMVEMSC.
- The GMVEMSC will contact the hospital EMS Coordinator with whom the EMS Department is assigned to work out a drug bag replacement. The EMS Coordinator will contact GMVEMSC for a drug bag replacement after all paperwork is submitted and GMVEMSC will assess a fee for replacement bag to be paid for by the EMS Department receiving the replacement bag.

ADDENDUM B

HOSPITAL PARTICIPATION POLICY

APPROVED: 29 November 2001

GENERAL PURPOSE:

To ensure uniformity of hospital pharmacy participation in the DBEP.

The Hospital Shall:

- Purchase (at cost), fill, and maintain a supply of bags sufficient to meeting the needs of an average day, plus a few extra to meet peak demands for bag replacement.
- Accept responsibility for filling new bags for departments or vehicles as assigned by Council, at hospital expense.
- Assign one licensed pharmacist and an EMS coordinator to attend and participate in the Standing Orders and Drug Bag Exchange Program Committees.
- Agree to pay annual dues and any fees assessed by Council that are approved by the DBEP Committee and the GMVEMSC Council that pertain to the DBEP.

GMVEMSC SHALL:

- Maintain a current State Drug Licenses for all participants in the DBEP.
- Furnish hospital pharmacy with a current listing of all departmental personnel authorized to access the GMVEMSC drug bags and copy of the protocol.
- Assign departments to hospitals in both a geographic and otherwise equitable fashion.

ADDENDUM C

AGREEMENT LETTER

| Please type or print legibly |
|---------------------------------------------------------------------------------------------|
| DEPARTMENT/SERVICE: |
| CONTACT PERSON: |
| TELEPHONE: |
| FAX: |
| This department/service agrees to abide by the GMVEMS Council Drug Bag Exchange Program and |
| Standing Orders operating guidelines. |
| SIGNATURE: |
| Fire Chief, EMS Administrator, or Private Ambulance Administrator. |
| DATE: |
| Return to: |
| GMVEMSC |
| 241 Taylor, Suite 130 |
| Dayton OH 45402 |
| Phone: 937-228-1288 |

Fax: 937-228-1035

ADDENDUM D

New Member Policy requiring Drug (ALS/BLS) bag for licensure of their ALS/BLS unit

Those Agencies who have applied for membership and require a GMVEMSC drug bag to license their units may request a GMVEMSC drug Bag to be available 24 hours prior to the Ohio Medical Transportation Board (OMTB) inspection date providing they have done the following:

- 1. Have applied for a GMVEMSC membership
- 2. They have provided a copy of their State Pharmacy License
- 3. Have been given a provisional membership by the GMVEMSC Executive Committee if the inspection is before regularly scheduled Council meeting.
- 4. Personnel must be checked off on Standing Orders and data entered on GMVEMSC data base.
- Medical Director must submit a notarized letter to the State Pharmacy Board with License application stating they approve their department to use the GMVEMSC protocols.
 - Medical Directors have the right to limit their personnel from using certain medications or procedures within the scope of the GMVEMSC protocols.
 - ii. Medical Directors may elect to change or add medications or procedures to the protocol. The Medical Director must include those protocols in addendum to the GMVEMSC, be responsible for the training and documentation of training in of their protocol as well as purchasing and maintaining those drugs that are not included in the standard inventory of the GMVEMSC ALS or BLS.

The agency has 72 hours to show proof of a temporary permit from the date of inspection to the GMVEMS Council office. If they cannot demonstrate an OMTB permit in that time the Drug bag must be returned to the Hospital to which the agency is assigned or the hospital that provided the drug bag.

ADDENDUM E

GMVEMSC Drug Bag Discrepancy Report

If at any time an EMS provider encounters a discrepancy he/she will notify their EMS Officer of the discrepancy. If the discrepancy was discovered after opening the bag, retain the blue seal and the hospital sticker that was attached to the drug bag in question. If the EMS provider is at the hospital, they will log the bag in using the normal procedure at that hospital. They will advise the pharmacist or EMS Coordinator of the discrepancy and that they will be initiating the Discrepancy form as described below (pharmacist may request a copy of the Discrepancy form).

| | : Date Discrepancy discovered: |
|------------------------------------------------|-----------------------------------------------------|
| Discovered by: | Hospital/EMS Dept making discovery: |
| | |
| Have blue Hospital seal? YES/NO If | ves - Attach seal to report |
| Tracking: | yes rituen sour to report |
| Date bag was logged out: from | n (hospital) To (EMS |
| agency) Date B | ag turned in: to (hospital) |
| Description of the discrepancy : (Attac | ch addendum if additional space needed) |
| | 1 / |
| | |
| | |
| | |
| Describe efforts to resolve the discrep | pancy: (Attach addendum if additional space needed) |
| | |
| | |
| | |
| | |
| Was the discrepancy satisfactorily resol | ved? If not, what steps are to be taken: |
| | |
| | |
| | |
| | |
| | |
| XXII 1111 111 6 | 1 |
| | ed reporting: |
| Reporting requirements: | D 1 0 |
| Was a police report filed? Da | te: By whom? |
| Was a DEA report filed? Date | e: By whom? |
| Description 1.1 property and analysis 1.4 CMG | TEMCC Devices |
| Required documents submitted to GMV | VEMSC By: Date: |
| For Drug Bag committee use: | |
| Wrong Med stocked | Bag logged out with red seal |
| Expired meds found | Empty vials/packages found |
| Wrong dose packaged | Open pouch found |
| Missing Meds | Unsealed bottles found |
| Wrong number packaged | Med found in wrong compartment |
| No exp date on tag | Wrong med administered |
| Atrovent/Albuterol not labeled | Lost or stolen bag |
| Damaged medications | Other: |
| Other: | 5.000 |
| GMVEMSC – White | Pharmacy - Yellow EMS Department - Blue |

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ADDENDUM F

OAC 4729-9-15

Report of theft or loss of dangerous drugs, controlled substances, and drug documents.

- (A) Each prescriber, terminal distributor of dangerous drugs, or wholesale distributor of dangerous drugs shall notify the following upon discovery of the theft or significant loss of any dangerous drug or controlled substance, including drugs in transit that were either shipped from or to the prescriber, terminal distributor of dangerous drugs, or wholesale distributor of dangerous drugs:
 - (1) The state board of pharmacy, by telephone immediately upon discovery of the theft or significant loss;
 - (2) If a controlled substance, the drug enforcement administration (DEA) pursuant to section 1301.76(b), Code of Federal Regulations;
 - (3) Law enforcement authorities pursuant to section 2921.22 of the Revised Code.
- (B) Controlled substance thefts must also be reported by using the Federal DEA Report form whether or not the controlled substances are subsequently recovered and/or the responsible parties are identified and action taken against them. A copy of the federal form regarding such theft or loss shall be filed with the State Board of Pharmacy within thirty days following the discovery of such theft or loss.
 - (1) An exemption may be obtained upon sufficient cause if the federal form cannot be filed within thirty days.
 - (2) A request for a waiver of the thirty-day limit must be requested in writing.
- (C) Each prescriber, terminal distributor of dangerous drugs, or wholesale distributor of dangerous drugs immediately upon discovery of any theft or loss of:
 - (1) Uncompleted prescription blank(s) used for writing a prescription, written prescription order(s) not yet dispensed, and original prescription order(s) that have been dispensed, shall notify the state board of pharmacy and law enforcement authorities.
 - (2) Official written order form(s) as defined in division (Q) of section 3719.01 of the Revised Code shall notify the state board of pharmacy and law enforcement authorities, and the drug enforcement administration (DEA) pursuant to section 1305.12(b), Code of Federal Regulations.

ADDENDUM G

Ambulance Restocking Policy

EMS Supply Exchange Program September 23, 2014

History

The member hospitals of GDAHA have supported Emergency Medical Services agencies in the region for decades. In 1998, GDAHA received permission (Advisory Opinion No. 98.7) from the Department of Health & Human Services to continue to exchange drugs (GMVEMSC Drug Bag Program) and supplies with EMS agencies and avoid violating the anti-kickback (safe harbor) statute of the Social Security Act. The hospitals named in the advisory are in the eight (8) county West Central Region: Champaign, Clark, Darke, Greene, Miami, Montgomery, Preble and Shelby.

In December 2001, the Centers for Medicare and Medicaid Services issued an Ambulance Final Rule on Ambulance Restocking Safe Harbor. Elements of the Safe Harbor include: 1) Billing and Claim Submission; 2) Documentation; 3) Not Tied to Referrals; and 4) Compliance with other laws.

Current Situation

EMS agencies and personnel need to understand the benefits of the EMS Supply exchange program, as offered by GDAHA members participating in this program. EMS agencies and personnel must also realize that they must adhere to the agreement, particularly the areas highlighted below:

- 1. Written records describing each of the medical supplies and/or medications utilized by the patient during the transport. For all transports to Member Hospitals, the EMS agencies will provide the receiving Hospital Member with copies of such written records upon arrival at the Hospital.
- 2. Participating hospital members will restock EMS agency ambulances, at no charge to EMS agency, with the medical supplies and/or medications which were **utilized by the patient during the transport to the receiving Hospital.**

Hospitals will not restock items used on patients delivered to another hospital. It is the responsibility of the EMS agencies to restock items used on patients delivered to a hospital that is not a participant in the Agreement. **Participating hospitals will restock drug bags.**

Hospitals are not required to participate in this restocking program. This is a benefit to EMS Agencies in the region. Restocking an ambulance at a participating hospital for items used on a patient delivered to a hospital not participating in the agreement, will jeopardize this program.

Hospitals will not provide medical supplies to a new ambulance, or an old ambulance being returned to service. These ambulances must be stocked for the first time by the EMS agency.

ADDENDUM H

Protocol Testing Compliance

| I, | (Chief's Name Printed), do hereby certify that | t all |
|---------------------------------|------------------------------------------------|---------|
| members of | (Agency/ Department Nar | me) |
| have completed the(Y | Year) GMVEMSC Protocol Testing as of | _ (Date |
| of Completion) with the excepti | ion of the following personnel: | |
| (List anyone who has not comple | eted testing) | |
| Chief's Signature | | |

GREATER DAYTON AREA HOSPITAL ASSOCIATION

and

GREATER MIAMI VALLEY EMERGENCY MEDICAL SERVICES COUNCIL and

GREATER MONTGOMERY COUNTY FIRE CHIEFS' ASSOCIATION

POLICY STATEMENT FOR TEMPORARY DIVERSION OF EMERGENCY PATIENTS

PROCEDURE:

When situations exist that prevent the timely treatment of additional emergency cases or certain types of emergency patients, the designated hospital or satellite emergency department (ED) Official will report that they are on "Diversion of Emergency Patients," formerly referred to as rerouting. The hospital or satellite ED will:

- 1. Update the "GDAHA SurgeNet Web Page."
 - Anyone with a SurgeNet account can set up email and/or email text alerts for when any hospital changes status.
- Notify appropriate dispatch centers. (Hospitals and satellite EDs located in the southern Miami Valley region may also need to contact northern Cincinnati area hospitals or dispatch centers).
- 3. Dispatch centers unable to continuously monitor the GDAHA SurgeNet Web Page may provide a phone number to GDAHA which will receive a text to voice notification.

Communicate the following information:

Diversion of emergency patients is requested by (<u>name of hospital or satellite ED</u>) because of (<u>specify what situation exits</u>). Choose from the following options:

LOCKDOWN:

The hospital or satellite ED has activated its disaster plan because of an internal emergency or other situation rendering the hospital or satellite ED unable to accept any emergency patient. EMS will not transport any patient to a facility in lockdown.

DIVERSION OF CERTAIN TYPES OF PATIENTS:

On occasion, hospitals or satellite EDs will not be able to handle a certain type of patient. EMS will not transport this type of patient to the diverting hospital or satellite ED. Examples are but not limited to:

Stroke or head trauma

Haz-mat

Mental health

ICU

Cardiac

OF

All but major trauma (trauma centers only)

For patients impacted by the type of diversion specified, EMS should utilize hospitals in normal status. Transport to a hospital in diversion status may jeopardize patient care more than the delay in treatment caused by longer transport times.

PATIENT REQUESTING TRANSPORT TO HOSPITAL ON DIVERSION:

When a patient and /or the patient's physician requests emergency medical services to transport to a hospital which is on diversion, emergency medical services have the responsibility to advise the patient and/or the physician that "due to diversion resulting from (nature of situation), patient care may be jeopardized."

To avoid misunderstanding, all parties are cautioned to use the words "divert or diversion" not "closed."

After two (2) hours the hospital or satellite ED will be notified by page and/or email to review diversion status.

1. It is the responsibility of the **diverting** hospital or satellite ED to cancel the diversion status with dispatch centers and update the GDAHA SurgeNet Web page using the same notification protocols used to initiate the diversion procedure.

PARTICIPATING HOSPITALS (Additional Hospitals added upon approval)

Atrium Medical Center (Middletown) 1 Medical Center Dr, Middletown, OH 45005

Austin Boulevard Emergency Center 300 Austin West Blvd., Miamisburg, OH 45342

Dayton Children's Hospital 1 Childrens Plaza, Dayton, OH 45404

Dayton Children's Hospital - South Campus 3333 W. Tech Blvd, Miamisburg, OH 45342

Dayton-Springfield Emergency Center 1840 Springfield Road, Fairborn, OH 45324

Fort Hamilton Hospital 630 Eaton Ave, Hamilton, OH 45013

Franklin Emergency Center - Kettering Health Network 100 Kettering Way, Franklin, OH 45005

Grand Lake Health System 200 St. Clair Street, St Marys OH 45885

Grandview Medical Center 405 W Grand Ave, Dayton, OH 45405

Greene Memorial Hospital 1141 N Monroe Dr, Xenia, OH 45385

Huber Emergency Center - Kettering Health Network

8701 Troy Pike, Huber Heights, OH 45424

Jamestown Emergency Center 4940 Cottonville Rd, Jamestown, OH 45335

Joint Township District Memorial Hospital 200 St. Clair Ave, St. Marys, OH 45885

Kettering Medical Center 3535 Southern Blvd, Kettering, OH 45429

Mercy Health – Springfield 100 Medical Center Drive, Springfield, OH 45504

Mercy Health Urbana Hospital 904 Scioto St, Urbana, OH 43078 Miami Valley Hospital 1 Wyoming St, Dayton, OH 45409

Miami Valley Hospital North 9000 N Main St, Dayton, OH 45415

Miami Valley Hospital South 2400 Miami Valley Dr, Centerville, OH 45459

Middletown Emergency Center - Kettering Health Network 6147 W. State Route 122 Middletown, OH, 45005

Preble Emergency Center - Kettering Health Network

450-B Washington-Jackson Rd, Eaton, OH 45320

Indu and Raj Soin Medical Center

3535 Pentagon Blvd, Beavercreek, OH 45431

Southview Hospital

1997 Miamisburg Centerville Rd, Dayton, OH 45459

Sycamore Medical Center

4000 Miamisburg Centerville Rd, Miamisburg, OH 45342

Troy Hospital

600 W. Main St., Troy, OH 45373

Upper Valley Medical Center

3130 N Co Rd 25A, Troy, OH 45373

Dayton VA Medical Center

4100 West 3rd Street, Dayton, OH 45428

Wayne Healthcare

835 Sweitzer St, Greenville, OH 45331

Wilson Memorial Hospital

915 West Michigan Street, Sidney, OH 45365

WPAFB 88th Medical Center

4881 Sugar Maple Dr, Wright-Patterson AFB, OH 45433

HOSPITAL CAPABILITIES CHART

| HOSPITAL | Trauma Center | Burn Center | Interventional Cardiac Cath | Stroke Telemedicine | Stroke Primary | Stroke Comprehensive | L & D |
|-----------------------------|------------------|----------------|--------------------------------|------------------------|-------------------|-------------------------|-------|
| Atrium Med, Middletown | A 3 | | Cardiac | Y | Y | | Y |
| Austin Emer Ctr | | | | Y | | | |
| Bethesda Arrow Spr | | | | Y | | | |
| Bethesda Butler Hosp | | | | Y | | | |
| Christ Hospital Liberty | | | | Y | | | Y |
| Dayton Children's Hosp | P 1 | Y | | | | | |
| Dayton Children's South | | | | | | | |
| Dayton-Springfield Emer Ctr | | | | Y | | | |
| Fort Hamilton Hosp | | | Cardiac | Y | Y | | Y |
| Franklin Emer Ctr | | | | Y | | | |
| Grandview Med Ctr | A 3 | | Cardiac | Y | Y | | |
| Greene Memorial Hosp | | | | Y | | | |
| Huber Emer Ctr | | | | Y | | | |
| Jamestown Emer Ctr | | | | Y | | | |
| Joint Township Hosp | | | | Y | | | |
| Kettering Medical Ctr | A 2 | | Cardiac | Y | Y | KMC | Y |
| McCullough-Hyde Hosp | | | | Y | | | Y |
| Mercy Memorial Hosp | | | | Y | | | |
| Miami Valley Hosp | A 1 | Y | Cardiac | Y | Y | MVH | Y |
| MVH North | | | | Y | | | |
| MVH South | A 3 | | | Y | | | Y |
| Middletown Emergency | | | | Y | | | |
| Preble Emer Ctr | | | | Y | | | |
| Reid Health | A 3 | | Cardiac | Y | | | Y |
| Soin Medical Ctr | A 3 | | Cardiac | Y | Y | | Y |
| Southview Hospital | | | Cardiac | Y | Y | | Y |
| Springfield Regional MC | | | Cardiac | Y | Y | | Y |
| Sycamore Medical Ctr | | | | Y | Y | | |
| Troy Hospital | | | | Y | | | |
| Upper Valley Medical Ctr | | | Cardiac | Y | | | Y |
| VA Medical Ctr | | | | | | | |
| Wayne Health Care | | | | Y | | | Y |
| West Chester Hosp | A 3 | | Cardiac | Y | Y | | Y |
| Wilson Memorial Hosp | | | Cardiac | Y | | | Y |
| WPAFB | | | | | | | Y |
| | | | | | | | |

Notes: Comprehensive stroke centers have the capability of endovascular intervention 24/7. Primary stroke centers have CT and tPA capabilities and focus on evaluating patients for intravenous tPA. Telemedicine with tPA ready offers immediate access to Neurologist.

Hospitals in **bold type** ask to be called for every patient.

| DITONE | E A \$7 |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PHONE | FAX |
| | 513-705-4149 |
| | 937-223-9175 |
| | 513-867-2581 |
| | 513-893-8321 |
| | 513-648-7962 |
| | |
| | 937-641-4880 |
| | 937-641-5301 |
| | 937-523-8788 |
| 513-867-2144 | 513-867-2581 |
| 937-458-4728 | 937-458-4737 |
| 937-540-1067 | 937-734-5977 |
| 937-723-3419 | 937-723-4609 |
| 937-372-2297 | 937-352-3501 |
| 937-558-3301 | 937-558-3349 |
| 937-374-5274 | 937-374-5275 |
| 419-394-7333 | 419-394-1902 |
| 937-395-8080 | 937-395-8347 |
| 513-524-5353 | 513-523-0144 |
| 937-484-6160 | 937-484-6183 |
| 937-208-2440 | 937-208-8030 |
| 937-208-2408 | 937-208-2651 |
| 937-540-1067 | 937-734-5977 |
| 937-438-2662 | 937-438-2262 |
| 937-438-5817 | 937-438-5830 |
| 513-261-3415 | 513-261-3419 |
| 937-456-8328 | 937-456-8377 |
| 937-333-8727 | |
| 765-983-3161 | 765-983-3038 |
| 937-702-4525 | 937-702-4509 |
| 937-702-4525 | |
| 937-435-1832 | 937-401-6447 |
| 937-401-6850 | 937-401-6861 |
| 937-523-1902 | 937-523-1950 |
| 937-384-8766 | 937-384-8729 |
| 937-980-7015 | 937-980-7019 |
| 937-440-9444 | 937-440-4346 |
| 937-440-4181 | 937-440-4340 |
| 937-262-2172 | 937-267-5364 |
| 937-547-5777 | 937-569-6291 |
| 513-298-7777 | 513-298-8978 |
| 513-298-7777 | |
| 937-498-5300 | |
| 025 255 2205 | 027 (5(1(72 |
| 937-257-3295 | 937-656-1673 |
| | 513-424-3924 937-865-9663 513-282-7222 513-893-8222 513-648-7874 513-636-8008 937-641-5642 937-641-5642 937-641-4444 937-523-8792 513-867-2144 937-458-4728 937-540-1067 937-723-3419 937-372-2297 937-558-3301 937-374-5274 419-394-7333 937-395-8080 513-524-5353 937-484-6160 937-208-2440 937-208-2408 937-348-2662 937-438-5817 513-261-3415 937-456-8328 937-333-8727 765-983-3161 937-702-4525 937-456-8328 937-333-8727 765-983-3161 937-702-4525 937-45-850 937-384-8766 937-980-7015 937-440-9444 937-440-9444 937-440-9444 937-440-9444 937-440-9444 937-468-5077 513-298-7777 513-298-7777 513-298-7777 |

Hospitals in \boldsymbol{bold} \boldsymbol{type} ask to be called for every patient.

Updated: November 2019

Greater Miami Valley EMS Council Infectious Disease Exposure Reporting Policy

A. PURPOSE

This document provides public safety personnel (including fire, EMS, and law enforcement) and hospitals with a set of standard guidelines and expectations for defining, responding to, and following up on an infection control exposure incident involving an emergency response provider.

B. BLOODBORNE EXPOSURE

1. DEFINITION OF A BLOODBORNE EXPOSURE

An EXPOSURE incident that may place a public safety worker at risk for Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), or Human Immunodeficiency Virus (HIV) infections or other blood borne pathogens that includes:

- a. A percutaneous injury (e.g., a needle stick or cut), or
- b. Contact of mucous membrane or non-intact skin (e.g., exposed skin that is chapped, abraded, or afflicted with dermatitis) with blood, tissue, or other body fluids that are potentially infectious.

What is NOT an exposure?

- a. A percutaneous injury with a clean or sterile needle or instrument.
- b. Intact skin splashed with potentially infectious blood, body fluid, or tissue.

2. POST EXPOSURE PROCEDURE

- a. An exposed public safety worker should take the following immediate "first aid" action steps:
 - **☑** Immediately irrigate the involved area.
 - Flush eyes with copious amounts of normal saline, if indicated.
 - Wash skin vigorously with soap and water. If soap and water is not available, rinse area with another available solution such as normal saline or a water-based liquid. Waterless hand cleaners are not recommended for post-exposure gross decontamination, but can be used when other options are not available.
- b. Employee shall report the exposure incident to the receiving hospital and to their immediate supervisor.
- c. Exposed employees are REQUIRED to register as a patient at the receiving hospital (same receiving hospital as the source).
- d. Once at the receiving hospital, the exposed employee should locate and complete the "Request for Information by Emergency Care Workers (RIECW)" form (see Appendix A). When completed, the form should be submitted to the nurse handling the exposed employee's care in the Emergency Department (ED).
- e. The EMS Coordinator for the receiving hospital can serve as a liaison between the organization and the hospital. The department's infection control officer (ICO) or designated supervisor ¹should, upon receiving notification that there has been an exposure incident, notify the receiving hospital's EMS Coordinator.
- f. Follow-up care/exam(s) will be provided to each employee involved when indicated. All follow-up care/exam(s) will be coordinated through your employer.

3. TESTING THE SOURCE PATIENT

¹ For the purpose of this policy the "department's Infection Control Officer (ICO), designated supervisor, or designee" refers to the person responsible for reporting and coordinating an exposed employee's incident within that Public Safety entity.

- a. A blood sample is required to determine whether a patient has HIV, HBV or HCV. Blood/Body Fluid (B/BF) testing of a source patient includes the following (MMWR, June 29, 2001):
- **☒** HIV antibody
- HBV surface antigen (HBsAg)
- **☒** HCV antibody

b. If the source patient is TRANSPORTED to a hospital:

- 1) The ED obtains patient consent and the blood specimen for testing.
- 2) In the event that the patient refuses to or cannot give consent (e.g., due to an altered level of conscious) a hospital's "infection control committee... or other body of a health care facility performing a similar function" has the authority to obtain the HIV screening when there has been a significant exposure (Ohio Revised Code §3701.242).

c. If the source patient REFUSES TRANSPORT to a hospital:

- 1) If the patient refuses to give consent for blood sampling and refuses transport, the public safety worker must follow up with their ICO or designee. At this point it is a legal matter to obtain the source patient's blood for testing (Ohio Revised Code §3701.247). Following a significant exposure in which the source patient refuses to provide a blood sample and refuses transport, the employee should seek immediate medical evaluation and counseling for themselves (MMWR, Sept. 30, 2013).
- 2) In cases where the patient refuses transport, or in exposure incidents where the source patient is unknown, an exposed employee should follow the steps outlined in Section 5-Patients Not Transported to a Hospital.
- 3) EDs or hospitals will not run source patient blood samples if the source patient is not a patient at their hospital.

4. SOURCE PATIENT (TRANSPORTED TO HOSPITAL) RESULTS

- a. Hospital-run HIV test results should be available within an hour (may be longer for "stand alone" or smaller EDs); HBV and HCV results may not be available for several days.
- b. The exposed employee is expected to remain a patient in the ED until they have received the results of the rapid HIV test and any additional counseling from the attending physician.
- c. The employee is expected to communicate his/her follow-up needs to your department's ICO or designated supervisor.
- d. Written notification of positive test results shall be provided directly to the affected employee by the hospitals designated infection control point of contact within three (3) days after oral notification (Ohio Revised Code §3701.248).
- e. Confidentiality of the source patient and public safety worker information shall be maintained at all times. Only information pertaining to source patient results will be released to the organization's ICO or designee and/or an employee who is still present in the ED as described above. The department ICO or designee and the public safety worker shall not disclose any medical information publicly about the source patient.

5. PATIENTS NOT TRANSPORTED TO A HOSPITAL BY EMS

- a. Employees should notify their immediate supervisor, and their immediate supervisor should notify the organization's ICO or designee. Federal regulations dictate that, "following report of an exposure, the employer shall make immediately available to the exposed employee a confidential medical evaluation and follow-up" (OSHA 29 CFR, 1910.1030(f) (3)).
- b. Exposed employee should be directed to any ED for treatment.
- c. Employee shall locate, complete, and sign the Request for Information by Emergency Care Workers (RIECW) Form (Appendix A), which should be available, completed, and submitted to the nurse handling care in the ED.
- d. If the public safety worker is aware that the patient went to an ED by other means, the employee's supervisor may call the ED charge nurse of the patient's destination and notify

them of the exposure, with a request to obtain baseline testing of the source patient. The written Request for Notification of Test Results shall be faxed to the ED charge nurse as soon as possible by the employee or the department's ICO.

6. PROPHYLAXIS FOR BLOOD/BODY FLUID EXPOSED PUBLIC SAFETY WORKER

- a. Post-exposure prophylaxis (PEP) treatment may be offered to the public safety worker by the ED or workplace health provider in accordance with current clinical guidelines and local PEP protocols. Additionally, the employee may wish to consult their personal physician.
 - 1) The decision to take PEP includes a risk-based assessment based on known or unknown source patient and type of exposure.
 - 2) Employees receiving PEP treatment should be followed up within 72 hours of starting treatment.
 - 3) The PEP treatment decision should consider laboratory results when available.

b. HIV prophylaxis:

- 1) Decisions about chemoprophylaxis can be modified if additional information becomes available.
- 2) Public safety workers must register as ED patients to receive HIV prophylaxis from the hospital.
- 3) HIV PEP should be started as soon as possible.
- 4) Consideration should be given by the ED for expert consultation and guidance on HIV PEP (e.g., infectious disease physician, MMWR, 2011) or the National Clinicians' Post Exposure Prophylaxis Hotline @ #888-448-4911).
- 5) Counseling should be made available through the agency's employee assistance program (EAP) or by contractual agreements. Hepatitis Prophylaxis:

c. Hepatitis Prophylaxis

- 1) Hepatitis Prophylaxis is dependent on the public safety worker's vaccine status. A small percentage of immunized individual's protection from the vaccine declines over time, which may require Hepatitis B Immunoglobulin (HBIG) and additional doses of the Hepatitis B vaccine to protect against both the current exposure and future exposures. The results of the HBV Surface Antibody test will demonstrate the employee's immunity to HBV, but are not typically given in the ED as the results of the HBV Surface Antibody test are usually not available immediately. Employees must follow up with his/her organization's workplace health provider for related prophylaxis as soon as possible.
- 2) There is no prophylaxis for HCV at this time. In cases of positive source HCV results, the employee should follow up with his or her workplace health provider for medical evaluation and care.

7. PUBLIC SAFETY WORKER BASELINE TESTING

- a. Baseline testing of the exposed public safety worker is the employee's choice. Agencies should maintain signed statements of employees who decline baseline testing/evaluation at the time of an exposure.
- b. Baseline testing is the term given to the set of initial laboratory tests that should be drawn on an exposed employee. This data may be used to compare future assessments in determining if an infectious disease was contracted. Baseline testing is not emergent; however, evaluation for PEP as discussed above should be considered urgent and care sought immediately.
- c. In cases where PEP was determined not an appropriate emergency treatment, the public safety worker should seek follow up care as instructed. This follow up should be by the organization's workplace health provider. This follow up should optimally occur the next day and no later than seven days post exposure (MMWR, 2001).

- d. In cases where the source patient testing is negative but the public safety worker still wants further testing, the employee is encouraged to follow up with their private physician or your department's workplace health provider.
- e. Public safety worker baseline testing includes at minimum:
 - 1) HIV antibody
 - 2) Hepatitis B surface antibody
 - 3) Hepatitis C virus antibody
- f. A positive Hepatitis and/or HIV test of the SOURCE PATIENT should trigger viral load testing of the SOURCE PATIENT.

C. RESPIRATORY EXPOSURE

- 1. Respiratory exposure is defined as contamination with an infectious agent through the respiratory tract. This occurs via one of two routes (CDC, Rationale for Isolation Precautions in Hospitals, 1996):
 - a. Via airborne infectious agents with small-particle residue [5 µm or smaller] of evaporated droplets containing microorganisms that remain suspended in the air for long periods of time (example is tuberculosis, rubella, and varicella virus).
 - b. Via droplet infectious agents which are propelled a short distance (less than three feet) through the air by coughing or sneezing: these droplets are acted upon rapidly by gravity (examples are meningitis, pertussis and influenza).
- 2. Respiratory exposures may not be immediately known by the public safety worker, especially if the patient is not overtly symptomatic.

3. IMMEDIATE ACTIONS OF THE AIRBORNE-EXPOSED PUBLIC SAFETY WORKER

- a. Don PPE as soon as possible at the scene or during transport if the patient is known to have a respiratory infection or is coughing or spraying secretions.
- b. If secretions are splashed or coughed into the eyes or other mucous membranes, flush with copious amounts of normal saline as soon as possible.
- c. The public safety worker who suspects a respiratory exposure or is notified of such an exposure should:
 - Notify the department ICO that an exposure occurred
 - Notify the ED charge nurse of the exposure upon delivery of the patient
 - E Complete the *Request for Notification of Test*. In these cases being checked in as an ED patient may or may not be necessary.
 - Upon receipt of the source patient's diagnosis, follow-up care and prophylaxis may be necessary for those exposed. At this point exposed employees may have to return to the receiving hospital and be checked in as a patient to receive care. In other situations follow-up care and prophylaxis may come from your department's workplace health provider.

4. PROPHYLAXIS FOR THE AIRBORNE-EXPOSED PUBLIC SAFETY WORKER

a. If an exposed employee needs prophylaxis, prophylaxis should be coordinated thru the receiving (or notifying) hospital or when immediately available at the department's workplace health provider's clinic.

5. TESTING THE SOURCE PATIENT

a. Source testing for respiratory exposures is done by the hospital based on patient symptoms.

6. SOURCE PATIENT RESULTS

- a. The hospital ICO or designee will notify the department ICO or designee of the infectious agent as soon as possible after symptoms of clinical presentation, or within 48 hours of a positive infectious agent determination.
- b. Your organization's ICO, possibly after consulting with your department physician, will assess the potential exposure of the employee based on the interaction history with the source patient and the agent involved.
- c. Confidentiality of source patient and the employee's information shall be maintained at all times. Only information pertaining to source patient results will be released to the department's ICO.

D. BLOOD or BODY FLUID & AIRBORNE EXPOSURES BY CORONER'S CASES

1. In cases where there is a public safety worker exposure during resuscitation efforts, it is recommended that crews transport the patient to the hospital where source testing can be performed, rather than follow field termination procedures. However, in some incidents, exposure of a public safety worker may occur from a deceased victim who must remain at a scene for a period of time pending a coroner's investigation.

2. Immediate actions of the exposed provider:

- a. Decontaminate self as described in previous sections.
- b. Notify the department ICO or designee that the exposure occurred.
- c. At the direction of the department ICO or designee, seek treatment at an ED or at your organization's workplace health provider.
- d. Consider prophylaxis based on the index of suspicion.

3. Actions of the ICO or designee:

- a. The Coroner or Coroner's Investigator shall be notified as soon as possible by the department's ICO or designee that an exposure has occurred.
- b. A *Request for Information by Emergency Care Workers* form (Appendix A) shall be forward to the Coroner's Office as soon as possible after notification.

4. Testing the source patient:

a. The Coroner shall make every effort to test a source patient by the next business day of being notified of the exposure. In some cases, the Coroner may elect to send a specimen to an outside lab for testing. The public safety worker shall not wait for testing results from the Coroner to seek medical evaluation.

5. Source patients test results:

a. The Coroner or Deputy Coroner shall notify the department ICO or designee of source patient test results as soon as possible. Oral notification of source HIV status (positive or negative) shall be provided to the department ICO or designee within two days of test results, and written notification of positive test results shall be provided within three days after oral notification (ORC §3701.248).

APPENDIX A

REQUEST NO.

10349

REQUEST FOR INFORMATION BY EMERGENCY CARE WORKERS

PLEASE PRINT - Use Blue or Black lnk - PRESS HARD

This form is for use by emergency care workers to request information on the presence of a contagious or infectious disease (if known) of a person, alive or dead, who has been treated, handled, or transported for medical care by an emergency

- care worker.

 Before you can be provided with this information, you must believe that you have suffered significant exposure through contact with the person about whom you are requesting the information. A significant exposure means:

 (1) A percutaneous (break in skin or needle stick) or mucous membrane exposure (eyes, nose, mouth) to the blood, semen, vaginal secretions, or spinal, synovial (joint, bone, tendon), pleural (lung), peritoneal (abdomen), pericardial (heart), or amniotic fluid of another person; or (2) Exposure to a contagious or infectious disease.

You may expect to receive a reply to this request within 2 days after contagious or infectious disease testing results are known. This may be longer than 2 days after you submit your request. A written notification will follow. Your supervisor will also

Deposit top (white) copy in designated area or with charge nurse. Submit yellow copy to your agency or employer. Retain pink

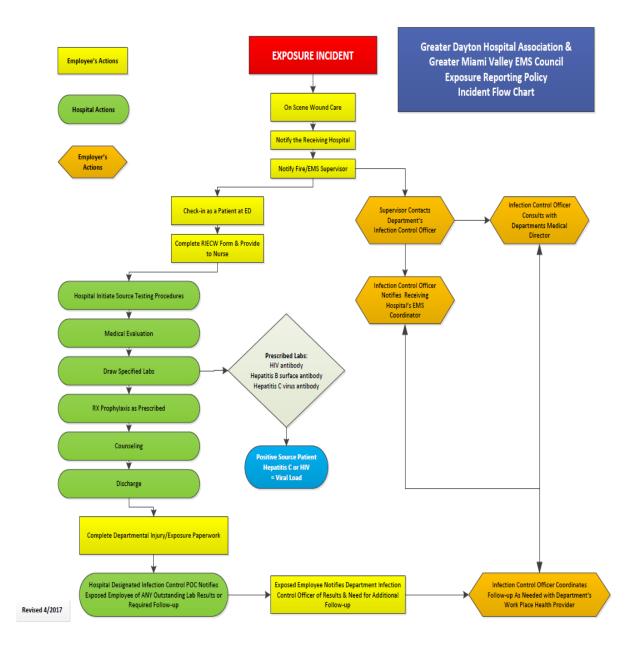
The requestor should follow his/her agency's or employer's exposure control plan for post-exposure follow up.

| EASE PRINT CLEARLY | | |
|-------------------------------------------------|---------------------------------------|-------------------------------------------------------|
| Your Name: | | |
| Your Home Address: | | |
| City/State/Zip: | | |
| Your telephone number: Home: | Work: | Pager: |
| Have you completed more than two | (2) injections in Hepatitis B series. | Yes No |
| . Employer or volunteer agency for wh | nom you were administering health o | care when exposure occurred: |
| Employer or Agency: | | |
| Address: | | Way 8 |
| | | Phone: |
| Name of your supervisor at above lis | sted place of employment or volunte | er agency: |
| Regarding the exposure, what was | | |
| Name of Source Patient: | | * |
| Date: | | |
| Place: | | |
| Manner of exposure: | | D 1 01: F |
| Dirty Needle Stick Splash - Eye, Nose, Mouth | | Broken Skin Exposure Unprotected Mouth to Mouth |
| Other: Describe the Incident (be s | | ■ VA 1 1003 • C 100 C C C C C C C C C C C C C C C C C |
| | poomoj | - |
| is is to attest that the above statements | are true and correct to the best of n | ny knowledge and belief. |
| our Signature: | | Date: |
| | ACKNOWLEDGEMENT | |
| | | |
| | | |
| | | |
| gnature of Person Receiving Request: | | 3 |
| eceived: Date | Time | |
| hite: Hospital/Coroner | Yellow: Agency/Employer | Pink: Requestor's Co |

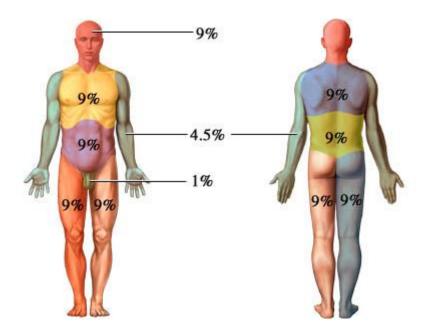
APPENDIX B

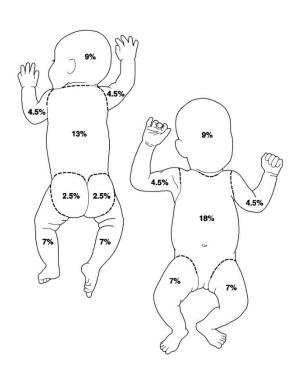
RESPONSE TO EMERGENCY CARE WORKER REQUEST FOR MEDICAL INFORMATION

| | RUEST NO S INFORMATION HAS BEEN DISCLOSED TO YOU FROM CONFIDENTIAL RECORDS PROTECTED FROM DISCLOSURE BY STATE |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RELI FOR | V. YOU SHALL MAKE NO FURTHER DISCLOSURE OF THIS INFORMATION WITHOUT THE SPECIFIC, WRITTEN, AND INFORMED EASE OF THE INDIVIDUAL TO WHOM IT PERTAINS, OR AS OTHERWISE PERMITTED BY STATE LAW. A GENERAL AUTHORIZATION ITHE RELEASE OF MEDICAL OR OTHER INFORMATION IS NOT SUFFICIENT FOR THE PURPOSE OF THE RELEASE OF HIV TEST ULTS OR DIAGNOSES, DISCLOSED ON THIS FORM. |
| 1. | Date of oral report:Person giving report: |
| | Report given to worker Supervisor Supervisor's name Written report will be given to worker and supervisor within 3 working days following oral notification of final results. |
| | |
| 2. | Date of written report: Person sending report: |
| | Report sent to worker Supervisor Supervisor's name |
| 3. | Your request for information has been received. |
| | a The request has been rejected because: |
| | Presence of a contagious or infections disease at this time is unknown due to: |
| | b No tests were performed. C. The source person in question has refused HIV testing |
| | dSource patient discharged home. e. No blood available |
| | fSource patient discharged to health care facility/coroner's office/funeral home. |
| | Address of facility/coroner's office/funeral home (if known): |
| | g. The following tests were performed on source patient with negative results : |
| | |
| | h. Testing on source person in question was positive for : |
| | ments: |
| 4. | Written and oral report included: |
| | □ Name of disease □ (Medical) precautions necessary to prevent transmission |
| | ☐ Signs & symptoms of disease ☐ Recommended prophylaxis (if any) |
| | □ Date of Exposure □ Suggested treatment |
| | □ Incubation period of disease □ Appropriate Counseling □ Mode of transmission |
| | |
| 5. | Sources of materials provided regarding disease: |
| | |
| 5. | It is expected that the emergency care worker will consult a physician in cases of true disease exposure. It is understood by provider of report and recipients that decisions related to prophylaxis, treatment, and counseling will be at the discretion of that physician. |
| | THIS RESPONSE PROVIDES ALL INFORMATION AVAILABLE AS OF THE DATE OF THIS WRITTEN RESPONSE. ANY ADDITIONAL REQUEST WILL NEED TO BE SUBMITTED FOR ANY FUTURE INFORMATION REGARDING THIS PATIENT. |
| -2014 | White: Requestor's Copy Yellow: Agency/Employer Pink: Hospital Infection Control Committee/Coroner |



RULE OF NINES





2019 EMT CHANGES

- P. 4 Deleted statement about HCPOA not being able to revoke a DNR. Too much uncertainty as to who has authority when.
- P. 9 Changed LMA to Supraglottic as recommended primary airway.
- P. 12 Modified verbiage for administering oxygen and withholding it.
- P. 15 Added consider contacting MCP for stroke destination.
- P. 17 Verbiage "near drowning" deleted.
- P. 18 Added Adult and Pediatric Trauma Arrest
- P. 25 Deleted any references to KMC and a hyperbaric chamber. They no longer offer the service.
- P. 81 Deleted Addendum G and relettered remaining sections.
- P. 88 Multiple updates to hospital capabilities chart.
- P. 89 Corrected numbers to hospital contacts.

2020 EMT CHANGES

- P. 4 Updated the DNR Policy to reflect the changes from the State of Ohio and RPAB
- P. 11 Changed the AED verbiage to match current AHA recommendations
- P.14 Added the consideration to contact the receiving facility if you suspect sepsis
- P. 16 Updated Stroke Transportation Guidelines
- P. 26 Added nebulized medications for Asthma, Emphysema, COPD section per RPAB
- P. 26 Added nebulized medications for Allergic Reactions or Anaphylaxis section per RPAB
- P. 49 Added Drug Information Statement page
- P. 51 Added new drug sheet for nebulized Albuterol
- P. 57 Added new drug sheet for nebulized Ipratropium
- P. 66 Added new skill sheet for nebulized medication administration
- P. 69 Replaced LMA skill sheet with Supraglottic Airway skill sheet
- P. 70-76 Updated the Drug Bag Exchange Program Policy
- P. 71 Changed the dates for drug license and test to reflect new timelines from GMVEMSC
- P. 85 New language for Diversion Policy from GDAHA
- P. 88 & 89 Multiple updates to hospital capabilities chart and phone list.

Region 3 EMS Providers,

This Training Manual has been produced as a result of countless hours of work by a diverse cross section of the regional EMS community. The members of the Standing Orders and Continuing Education Committees, and the RPAB have put countless hours into this document. The groups have responded to changes in medication availability, procedural changes and have used your input to improve these documents.

There are companion documents and additional resources that are available for you to either view online or/download for further explanation on the Training and Testing process for 2020. The first of these is the "2020 Implementation Guide". It addresses the new philosophy, CEUs, and other important information regarding the testing. The other is the Ohio Public Safety "Scope of Practice" document. We hope to have additional supplemental material posted on the website soon.

The Training Manuals and processes would not have been possible without the strong foundation left by the many past chairpersons of the Standing Orders Committee and all the council members. Thank you to all who have volunteered and critiqued these manuals.

I would also like to thank Dr. Randy Marriott and all the RPAB members.

Sincerely,

John Russell Standing Orders Co-Chair