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2019
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DRAFT BLS PROTOCOLS
2019
Applies to adult and pediatric patients

Responsibilities of Patient Care

Transfer of Patient Care
Background

These protocols are intended to guide and direct patient care by EMS providers across New York State. They reflect the current evidence-based practice and consensus of content experts. These protocols are not intended to be absolute treatment documents, rather, as principles and directives which are sufficiently flexible to accommodate the complexity of patient management.

No protocol can be written to cover every situation that a provider may encounter, nor are protocols a substitute for good judgment and experience. Providers are expected to utilize their best clinical judgment and deliver care and procedures according to what is reasonable and prudent for specific situations. However, it will be expected that any deviations from protocol shall be documented and reviewed, according to regional procedure.

THESE PROTOCOLS ARE NOT A SUBSTITUTE FOR GOOD CLINICAL JUDGEMENT.
**Introduction**

The Statewide Basic Life Support Adult and Pediatric Treatment Protocols reflect the current acceptable standards for basic life support (BLS) delivered by certified first responders (CFR), and emergency medical technicians (EMT) in New York State. Advanced life support (ALS) protocols are developed separately and subject to regional variation.

Advanced providers are also responsible for, and may implement, the standing orders indicated for BLS care. Protocols are listed for each provider level and STOP lines indicate the end of standing orders. Generally, BLS interventions should be completed before ALS interventions.

Regional protocols and policies may accompany these BLS protocols.

The color-coded format of the protocols allows each BLS professional to easily follow the potential interventions that could be performed by level of certification.

**CRITERIA**
- Any specific information regarding the protocol in general

**CFR AND ALL PROVIDER LEVELS**
- CFR and EMT standing orders
- These are also standing orders for all levels of credential above EMT

**CFR STOP**

**EMT**
- EMT standing orders

**EMT STOP**

**MEDICAL CONTROL CONSIDERATIONS**
- Medical control may give any order within the scope of practice of the provider
- Options listed in this section are common considerations that medical control may choose to order as the situation warrants

**KEY POINTS/CONSIDERATIONS**
- Additional points specific to patients that fall within the protocol
- These protocols do not supplant regionally required equipment specifications or the items required under Public Health Law and Regulations
- These protocols should not serve as a demonstration of required equipment or training, as regional and agency variations will exist
- “*if equipped and trained” is noted on protocols that indicate interventions that may be performed if an agency or region approves these variations
**Pediatric Definition and Discussion**

The period of human development from childhood to adulthood is a continuum with the transition occurring during puberty. Since the completion of this transition is not sharply demarcated and varies among individuals, it is difficult to set a precise age when childhood ends, and adulthood begins. It follows that use of such a definition to determine when a pediatric or an adult protocol is to be used is also problematic.

The medical control agreement contained within these protocol document states, “providers are expected to utilize their best clinical judgment and deliver care and procedures according to what is reasonable and prudent for specific situations.” The determination of when to utilize an adult or pediatric protocol shall be no different and subject to the same CQI review that is compulsory with any other aspect of prehospital emergency care.

As a general guideline for use with these protocols, the following definition has been established:

- **Pediatric protocols should be considered for patients who have not yet reached their 15th birthday**

In protocols requiring weight-based dosing guidelines, pediatric dosing should be calculated on a per-kilogram (kg) basis using the adult dose as the pediatric dose maximum. It is strongly recommended that length-based resuscitation tapes or similar weight calculation devices be used for all pediatric medication doses or treatments to confirm a patient’s weight.
Acknowledgements

The State and Regional Emergency Medical Services Councils, State and Regional Emergency Medical Advisory Committees, State Emergency Medical Services for Children Advisory Committee, and Regional Program Agency staff of all that contributed to this and previous versions of these protocols.

The BLS Protocols Advisory and Writing Group

NYS DOH Bureau of EMS staff

Special thanks to Robin Snyder-Dailey for the protocol design.
General Approach to Prehospital Care
General Approach to the EMS Call
Applies to adult and pediatric patients

CRITERIA

This general approach guidance document is intended to provide a standardized framework for approaching the scene. Always follow common sense, apply good clinical judgment, and follow regionally approved polices and protocols.

CFR AND ALL PROVIDER LEVELS

EMT

Consider dispatch information while responding:
- Type of response (emergency/non)
- Prevailing weather
- Road conditions
- Time of day
- Location of call
- EMD Determinant / Mechanism of Illness / Injury
- Number of anticipated patients
- Need for additional resources

Survey the scene – do not approach the scene unless acceptably safe to do so. Stage proximate to the scene until scene is rendered acceptably safe:
- Environmental hazards
- CBRNE hazards
- Evidence of unknown powders/other unknown substances/sharps
- Indicators of a chemical suicide
- Mechanical hazards
- Violence / threat of violence
- Traffic hazards
- Number of actual patients
- Activate local MCI plan as necessary

Consider shelter-in-place or evacuation based on hazards; consider additional support resources:
- ALS intercept
- Additional ambulance
- Air medical services
- EMS physician
- Fire department / Heavy rescue
- Law enforcement
- Utilities

Ensure universal precautions / personal protective equipment appropriate to the task
For situations in which EMS PPE would not sufficiently protect the provider, the provider should assist the other emergency responders in determining response objectives based on life safety, property preservation, and environmental protection.

Establish or participate in unified command or ICS structure, as appropriate
For MCIs, establish a command structure as soon as possible
General Approach to the Patient
Applies to adult and pediatric patients

CRITERIA

This general approach guidance document is intended to provide a standardized framework for approaching the patient. Always follow common sense, apply good clinical judgment, and follow regionally approved policies and protocols.

CFR AND ALL PROVIDER LEVELS

EMT

History of present illness
- What events led up to the EMS contact?
- Use SAMPLE, OPQRST or similar to guide approach to events/illness/complaint
- Pertinent past medical history/medications/allergies
- Obtain additional pertinent medical information from the family and bystanders

Physical Exam
- Focused or complete exam directed by patient presentation, chief complaint, and mechanism of injury or illness
- Check for medical alert tags

Patient examination - Primary
Airway
- Identify and correct any existing or potential airway obstruction while protecting the cervical spine if appropriate
  - Is the airway patent?
  - Will it stay open on its own?
  - Is intervention necessary (OPA, NPA, Suction)

Breathing
- Apply oxygen and/or positive pressure ventilations, as indicated
- See “Oxygen Administration” protocol
  - Is breathing present?
  - Is breathing too fast or too slow to sustain life?
  - Is the patient speaking effectively?

Circulation
- Control serious life-threatening hemorrhage
- Refer to the “Trauma: Bleeding / Hemorrhage Control” protocol
  - Is a pulse present?
  - Is the pulse too fast or too slow to sustain life?
  - Is the pulse regular or irregular?
  - What is the skin color, condition, and temperature?
• Is there serious external hemorrhage?
• Is there evidence of internal hemorrhage or signs of shock?

Continually reassess and correct any existing or potentially compromising threats to the ABCs

**Disability**
- Determine level of consciousness
  - Alert, Voice, Pain, Unresponsive (AVPU)
  - GCS
  - Pupils
  - Cincinnati Pre-Hospital Stroke Screen (or other regionally approved stroke scale)

**Expose**
- Appropriately expose patient as needed to perform complete physical exam and perform necessary interventions
  - Are exposed patients sufficiently protected from public view?

**Transport Decision**
- See “General Approach: to Transportation” protocol

**Secondary Patient Assessment**
- Vital Signs (repeated frequently if abnormal or critical patient)
  - Pulse rate and quality
  - Respiration rate and quality
  - Blood pressure
    - Obtain BP by palpation only if necessary
  - Skin color, condition, and temperature
  - Blood glucose determination, if approved, equipped and appropriate

**Locate records including:** MOLST, eMOLST, or DNR as appropriate

**MEDICAL CONTROL CONSIDERATIONS**
- Medical control may give any order within the scope of practice of the provider
- Options listed in this section are common considerations that medical control may choose to order as the situation warrants

**KEY POINTS/CONSIDERATIONS**
- If a patient chooses to refuse care or transportation, please refer to “Refusal of Medical Attention” protocol and regional policy
- Develop a prehospital patient impression by combining all information available in the history of present illness, past medical history, and physical exam
- Submit a verbal report to the responsible medical personnel upon arrival at the emergency department
- Label any items that were transported with the patient such as EKGS, paperwork from facilities, medications, or belongings
- Complete a patient care report in compliance with state, regional and agency policy
General Approach to Transportation
Applies to adult and pediatric patients

CRITERIA
This general approach guidance document is intended to provide a standardized framework for patient transport. Follow common sense, apply good clinical judgment, and follow regionally approved policies and procedures.

CFR AND ALL PROVIDER LEVELS

EMT
Ongoing scene and patient assessment
- Scene safety is not just a yes / no question; it is continual situational awareness
- Take note of the effect of patients and bystanders
- Don’t get pinned into area
- Be aware of your egress routes

Consideration for ALS intercept and air medical services should be made based on agency and regional protocol, policy, patient needs, regional capabilities, and travel times. Do not delay transport waiting for ALS to arrive. The closest ALS may be at a hospital

Transport to the closest appropriate receiving hospital in accordance with regional hospital destination policies for travel time, hospital capabilities and NY State designation
- The closest appropriate hospital may not be the nearest hospital, even for patients in extremis such as those in cardiac or respiratory arrest

Ensure ongoing patient assessment, check for improving / deteriorating patient condition, and respond accordingly. Check to ensure that previously initiated therapies remain functional

Carefully consider use of appropriate emergency warning devices for transport: Lights and siren use is a medical intervention – does the patient condition warrant the use?

Provide a brief pre-arrival report to receiving hospital in accordance with regional policy. Ensure early notification for serious trauma, STEMI, stroke, and sepsis

MEDICAL CONTROL CONSIDERATIONS
- Medical control may assist with questions of care or there are complex medical conditions
- Medical control may assist with the determining the most appropriate receiving facility

KEY POINTS/CONSIDERATIONS
- If a patient chooses to refuse care or transportation, please refer to “Refusal of Medical Attention” protocol, as well as agency and regional policy
General Approach to Safety Restrainting Devices

Applies to adult and pediatric patients

CRITERIA

This general approach guidance document is intended to provide a standardized framework for patient transport. Follow common sense, apply good clinical judgment, and follow regionally approved policies and procedures.

CFR AND ALL PROVIDER LEVELS

EMT

All passengers including patients and EMS personnel should be restrained

- It is not permissible or safe to have a parent or caregiver hold a child in his/her arms or lap. The child and parent/caregiver should each be restrained appropriately
- All patients on the stretcher must be secured when the vehicle is in motion or the stretcher is being carried or moved; stretcher harness straps should always be used
- A child’s own safety seat – when available and intact – can be used to restrain a child during transport. He/she should be placed in the device and the device should be belted to an ambulance seat. If the child is the patient, the seat should be secured onto the stretcher and the child belted in the child safety seat
- If the ambulance service does not have an ambulance equipped with child safety seats or restraint, it is recommended that the agency purchase approved child safety seat(s) or restraint(s) for each ambulance. More than one size seat/restraint may be needed as location of the restraint (i.e., stretcher, or captain’s chair) may not accommodate all size children
- Agencies should routinely train EMS personnel in the use of various child safety seats/restraints available and have a policy for how injured or uninjured children will be transported
- As an agency considers the purchase of new vehicles, or is retrofitting current vehicles, design considerations, such as integrated child restraints, should be considered
- All safety seats/restraints should be used according to manufacturer’s recommendations

KEY POINTS/CONSIDERATIONS

- If a patient chooses to refuse safety restraints, please refer to “Refusal of Medical Attention” protocol, as well as agency and regional policy
Extremis / Cardiac Arrest Protocols
# Cardiac Arrest

**“Cardiac Arrest - Pediatric”**

## CRITERIA

- For patients who are unresponsive without signs of life
- For patients that do not meet the criteria of “Obvious Death” protocol or otherwise excluded by a DNR/MOLST order

## CFR AND ALL PROVIDER LEVELS

- CPR should be initiated prior to defibrillation unless the cardiac arrest is witnessed by the responding EMS provider
  - Perform compressions while awaiting the application of defibrillation pads
- Push hard and fast (100-120 compressions/min)
  - Metronome or feedback devices may be used
- Ensure full chest recoil
- Minimize interruptions in chest compressions
- Cycle of CPR = 30 compressions then 2 breaths
  - 5 cycles = 2 minutes
  - Rotate compressors every two minutes with pulse checks, as staffing allows
  - Minimize interruptions in chest compressions
- Continuous compressions with asynchronous ventilation (not stopping compressions while ventilating) is permitted to substitute for cycles of CPR that have pauses for ventilation even in non-intubated patients
- Avoid hyperventilation (breathing too quickly or deeply for the patient)
- Use of airway adjuncts and bag-valve mask device, as indicated, with BLS airway management, including suction (as needed), as available
  - Bag-valve mask should be connected to supplemental oxygen, if available
- Rhythm check or AED “check patient” every 5 cycles or two minutes of CPR
- Defibrillate as appropriate
  - Resume CPR immediately after defibrillation (do not check a pulse at this time)
  - Continue CPR for approximately 2 minutes or until the patient no longer appears to be in cardiac arrest

## EMT

- Although transport may be necessary, make every effort to *not* do manual chest compressions in moving ambulances, because it poses a significant danger to providers and may be less effective
  - Consider mechanical CPR devices when available for provider safety in moving ambulances (e.g. AutoPulse®, LUCAS®, LifeStat®, or other FDA approved device)
Termination of resuscitation in instances that are not covered by standing order criteria may be authorized by medical control

**KEY POINTS/CONSIDERATIONS**

- Do not interrupt compressions for placement of an advanced airway or placement of a mechanical CPR device
- Do not delay beginning compressions to begin ventilations
- Do not delay ventilations to connect supplemental oxygen
- Adequate ventilation *may* require disabling the pop-off valve if the bag-valve mask unit is so equipped
- AED should be placed as soon as possible without interrupting compressions to do so
- If a patient has a medication patch, it may be removed (use appropriate PPE)
- Avoid defibrillation with an AED in moving ambulances, because it may be less effective and road movement artifact may be misread by the AED
- Consider calling medical control for termination of resuscitation or initiation of transport after 20 minutes of CPR
Cardiac Arrest – Pediatric

CRITERIA

- For patients who are unresponsive without signs of life
- For patients that do not meet the criteria of “Obvious Death” protocol or otherwise excluded by a DNR/MOLST order

CFR AND ALL PROVIDER LEVELS

- CPR should be initiated prior to defibrillation unless the cardiac arrest is witnessed by the responding EMS provider
  - Perform compressions while awaiting the application of defibrillation pads
  - Push hard and fast (100-120 compressions/min)
  - Metronome or feedback devices may be used
  - Ensure full chest recoil
  - Minimize interruptions in chest compressions
  - Cycle of CPR = 30 compressions then 2 breaths (single rescuer)
  - 15 compressions then 2 breaths (if two rescuers available)
    - 5 cycles = 2 minutes (10 cycles = 2 minutes for 2-rescuers)
    - Rotate compressors every two minutes with pulse checks, as staffing allows
    - Minimize interruptions in chest compressions
  - Avoid hyperventilation
  - Use of airway adjuncts and bag-mask device (BVM), as indicated, with BLS airway management, including suction (as needed), as available
    - Bag-mask should be connected to supplemental oxygen, if available
  - Rhythm check or AED “check patient” every two minutes of CPR
  - Defibrillate as appropriate (Pediatric AED pads preferred for children with weight < 25 kg or age < 8 years, if available.)
    - Resume CPR immediately after defibrillation (do not check a pulse at this time)
    - Continue CPR for approximately 2 minutes cycles before doing a pulse check, or until the patient no longer appears to be in cardiac arrest

CFR STOP

EMT

- Avoid defibrillation with an AED in moving ambulances, because it may be less effective and road movement artifact may be misread by an AED

EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Termination of resuscitation in instances that are not covered by standing order criteria may be authorized by medical control

KEY POINTS/CONSIDERATIONS

- Do not delay beginning compressions to begin ventilations
• Do not delay ventilations to connect supplemental oxygen
• Adequate ventilation *may* require disabling the pop-off valve if the bag mask unit is so equipped
• AED should be placed as soon as possible without interrupting compressions to do so
Foreign Body Obstructed Airway
“Foreign Body Obstructed Airway - Pediatric”

CRITERIA
- Patients with a partial or complete foreign body airway obstruction

CFR AND ALL PROVIDER LEVELS

EMT
- If the patient is conscious and can breathe, cough, or speak
  - Encourage the patient to cough
  - Transport in a sitting position or other position of comfort
  - Administer supplemental oxygen; refer to the “Oxygen Administration” protocol
  - Perform ongoing assessment and watch for progression to complete obstruction
- Facilitate transportation, ongoing assessment, and supportive care
  - Perform ongoing assessment and watch for progression to complete obstruction
- If the patient is conscious and cannot breathe, cough, or speak
  - Perform airway maneuvers according to current AHA/ARC/NSSC guidelines
- If the patient is unconscious
  - Remove any visible airway obstruction by hand
  - Perform CPR

CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS
- Do not delay transport
Foreign Body Obstructed Airway – Pediatric

CRITERIA

- Patients with a partial or complete foreign body airway obstruction

CFR AND ALL PROVIDER LEVELS

EMT

- If the patient is conscious and can breathe, cough, or speak
  - Encourage the patient to cough
  - Transport in a sitting position or other position of comfort
  - Administer supplemental oxygen; refer to the “Oxygen Administration” protocol
  - Perform ongoing assessment and watch for progression to complete obstruction
  - Consider allowing parent to hold face mask with oxygen 6-8 inches from the child’s face as tolerated.
- Facilitate transportation, ongoing assessment, and supportive care
  - Perform ongoing assessment and watch for progression to complete obstruction
- If the patient is conscious and cannot breathe, cough, or speak
  - Perform airway maneuvers according to current AHA/ARC/NSSC guidelines
    - In infants (< 1 yr old): perform 5 chest thrusts alternating with 5 back-blows. Do not use abdominal thrusts/Heimlich maneuvers
- If the patient is unconscious
  - Remove any visible airway obstruction by hand
  - Perform CPR, refer to “Cardiac Arrest - Pediatric” protocol

KEY POINTS/CONSIDERATIONS

- Do not delay transport
- Agitating a child with a partial airway obstruction could cause a complete airway obstruction.
- Limit interventions that may cause unnecessary agitation such as assessment of blood pressure in a child who can still breathe, cough, cry, or speak
Respiratory Arrest / Failure
“Respiratory Arrest / Failure - Pediatric”

**CRITERIA**

- Patients with absent or ineffective breathing
  - Signs of ineffective breathing include cyanosis, visible retractions, severe use of accessory muscles, altered mental status, respiratory rate less than 10 breaths per minute, signs of poor perfusion

**CFR AND ALL PROVIDER LEVELS**

**EMT**

- Open the airway using the head-tilt/chin-lift or modified jaw-thrust maneuver
- Remove any visible airway obstruction by hand
- Clear the airway of any accumulated secretions or fluids by suctioning
- Provide positive pressure ventilation using a bag-valve mask
  - If ventilations are not successful, refer immediately to the “Foreign Body Obstructed Airway” protocol
- BLS airway management with use of airway adjuncts and bag-valve mask device, as indicated, including suction as needed, if available
  - Bag-valve mask should be connected to supplemental oxygen, if available
- Adult - Ventilate every 5-6 seconds
- Each breath is given over 1 second and should cause visible chest rise

**CFR AND EMT STOP**

**KEY POINTS/CONSIDERATIONS**

- Do not delay ventilations to connect supplemental oxygen
- Ongoing assessment is required to assess:
  - The effectiveness of ventilations
  - The need for compressions should the patient lose his or her pulse (refer immediately to the “Cardiac Arrest” protocol)
- Adequate ventilation may require disabling the pop-off valve is the bag-valve mask unit is so equipped
- Do not delay transport
Respiratory Arrest / Failure – Pediatric

CRITERIA

- Patients with absent or ineffective breathing
  - Signs of ineffective breathing include cyanosis, visible retractions, severe use of accessory muscles, altered mental status, respiratory rate less than 12 breaths per minute

CFR AND ALL PROVIDER LEVELS

EMT

- Open the airway using the head-tilt/chin-lift or modified jaw-thrust maneuver
- Remove any visible airway obstruction by hand
- Clear the airway of any accumulated secretions or fluids by suctioning
- Provide positive pressure ventilation using an appropriate size bag mask (BVM)
  - If ventilations are not successful, refer immediately to the “Foreign Body Obstructed Airway - Pediatric” protocol
- Use of airway adjuncts and bag mask device, as indicated, with BLS airway management, including suction (as needed), as available
  - Bag mask should be connected to supplemental oxygen, if available
- Ventilate every 3-5 seconds
- Each breath is given over 1 second and should cause visible chest rise
- Attach pulse oximeter if available and have a goal of oxygen saturation ≥ 94%

CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

- Do not delay ventilations to connect to supplemental oxygen but add supplemental oxygen when available
- Ongoing assessment is required to assess:
  - The effectiveness of ventilations
  - The need for compressions should the patient lose his or her pulse (refer immediately to the “Cardiac Arrest - Pediatric” protocol)
- Adequate ventilation may require disabling the pop-off valve, if the bag mask unit is so equipped
- Do not delay transport
Obvious Death
Applies to adult and pediatric patients

CFR AND ALL PROVIDER LEVELS

EMT

- CPR, ALS treatment, and transport to an emergency department may be withheld in an apneic and pulseless patient that meets ANY one of the following:
  - Presence of a valid MOLST, eMOLST, or DNR indicating that no resuscitative efforts are desired by the patient
  - Patient exhibiting signs of obvious death as defined by ANY of the following:
    - Body decomposition
    - Rigor mortis
    - Dependent lividity
    - Injury not compatible with life (e.g. decapitation, burned beyond recognition, massive open or penetrating trauma to the head or chest with obvious organ destruction, etc.)
  - Patient who is pulseless and apneic with no shock advised on an AED or no organized cardiac activity on ECG (performed by an ALS provider) following significant blunt or penetrating traumatic injury*
  - Patient who has been submerged for greater than one hour in any water temperature
- If a patient meets any of the aforementioned criteria, resuscitation efforts may be withheld, even if they have already been initiated. If any pads, patches, or other medical equipment have been applied, they should be left in place
- Notify law enforcement. The patient may be covered and, if allowed by law enforcement, may be moved to an adjacent private location. If there is any concern for suspicious activity, the patient should not be disturbed

CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

*Cardiopulmonary arrest patients in whom the mechanism of injury does not correlate with clinical condition, suggesting a nontraumatic cause of the arrest, are excluded from this criterion.
*Significant blunt or penetrating trauma includes mechanism criteria such as those set forth in step two or three of the “Trauma Patient Destination” protocol
- See also “Advance Directives/DNR/MOLST” protocol, as indicated
- If the above criteria can be met by BLS, ALS is not required for the determination of obvious death
- Copies of the MOLST form should be honored
- A copy of the DNR, MOLST, or eMOLST form should be attached to the PCR and retained by the agency whenever practical
- The eMOLST form may be printed and affixed with electronic signatures. Electronic signatures on the eMOLST form are considered valid signatures
General Adult and Pediatric Medical Protocols
AMS: Altered Mental Status
Applies to adult and pediatric patients

CRITERIA
- Including, but not limited to, hypoglycemia
- For opioid (narcotic) overdose, see “Opioid (Narcotic) Overdose” protocol
- For behavioral emergencies, see also “Behavioral Emergencies” protocol

CFR AND ALL PROVIDER LEVELS
EMT
- Airway management and appropriate oxygen therapy
- Check pupils and, if constricted, consider “Opioid (Narcotic) Overdose” protocol
- Check blood glucose level, if equipped and safe to do so
  - If blood glucose is known or suspected to be below 60 mg/dL and patient can self-administer and swallow on command:
    ▪ Give one unit dose (15-24 grams) of oral glucose, or another available carbohydrate source (such as fruit juice or non-diet soda)
  - If the patient is unable to swallow on command, or mental status remains altered following administration of oral glucose:
    ▪ Do not delay transport
- Ongoing assessment of the effectiveness of breathing
  - Refer to “Respiratory Arrest / Failure” or “Pediatric Respiratory Arrest / Failure,” protocol if necessary

CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS
- Assess the scene for safety and, if it is not, retreat to a safe location and obtain police assistance
- Consider closed head injury, non-accidental trauma, especially in children
- Consider drug ingestion, meningitis/encephalitis
- See also “Behavioral Emergencies” protocol, if indicated
AMS: ALTE/BRUE – Pediatric
 Applies to pediatric patients under 2 years of age

CRITERIA

Apparent Life Threatening Event (ALTE) / Brief Resolved Unexplained Events (BRUE)

ALTE/BRUE is an episode in an infant or child less than 2 years old which is frightening to the observer, has now resolved and is characterized by one or more of the following:

- Apnea (central or obstructive)
- Skin color change: cyanosis, erythema (redness), pallor, plethora (fluid overload)
- Marked change in muscle tone
- Choking or gagging not associated with feeding or a witnessed foreign body aspiration
- Seizure-like activity

CFR AND ALL PROVIDER LEVELS

EMT

- Airway management and appropriate oxygen therapy
- Check pupils and, if constricted, consider “Opioid (Narcotic) Overdose” protocol
- Check blood glucose level, if equipped
  - Refer to “AMS: Altered Mental Status” protocol if necessary
- Ongoing assessment of the effectiveness of breathing
  - Refer to “Respiratory Arrest / Failure - Pediatric” protocol if necessary

CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

NOTE: Most patients will appear stable and exhibit a normal physical exam. However, this episode may be a sign of underlying serious illness or injury and further evaluation by medical staff is strongly recommended. See “Refusal of Medical Attention” protocol if the caregiver wishes to refuse transportation.
Anaphylaxis

“Anaphylaxis - Pediatric”

CRITERIA

Anaphylaxis is a rapidly progressing, life threatening allergic reaction, not simply a rash or hives

CFR AND ALL PROVIDER LEVELS

- Allow the patient to maintain position of comfort
- Ongoing assessment of the effectiveness of breathing
  - Refer to the appropriate “Respiratory Arrest / Failure” protocol, if necessary
- Airway management and appropriate oxygen therapy

- If SEVERE respiratory distress, facial or oral edema, and/or hypoperfusion:
  - Administer the epinephrine autoinjector (e.g. EpiPen®), if available and trained
    - Adult autoinjector 0.3 mg IM (e.g. EpiPen®) if ≥ 30 kg*
- If patient has a history of true anaphylaxis* and has an exposure to an allergen developing respiratory distress and/or hypoperfusion and/or rash:
  - Administer the epinephrine autoinjector (e.g. EpiPen®), if available and trained
    - Adult autoinjector 0.3 mg IM (e.g. EpiPen®) if ≥ 30 kg*
- If the patient does not improve within 5 minutes, you may repeat epinephrine once

CFR STOP

EMT

- The EMT epinephrine kit may be substituted for an autoinjector (e.g. EpiPen®) in the section above, as available and as trained
- If the patient is wheezing, albuterol 2.5 mg in 3 mL (unit dose), via nebulizer; may repeat to a total of three doses

EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Additional epinephrine (as available and as trained)
  - Adult 0.3 mg IM
- Additional albuterol

KEY POINTS/CONSIDERATIONS

- Though a previous history of anaphylaxis is an important indicator for treatment, providers should be aware that anaphylaxis may develop in patients with no prior history
- Anaphylaxis may present with shock associated only with GI symptoms. In the setting of a known exposure to an allergen associated with shock, nausea, vomiting, abdominal pain, and/or diarrhea, consider anaphylaxis in consult with medical control.
- *If equipped and trained
Anaphylaxis – Pediatric

CRITERIA

Anaphylaxis is a rapidly progressing, life threatening allergic reaction, not simply a rash or hives

CFR AND ALL PROVIDER LEVELS

- Allow the patient to maintain position of comfort
  - Do not force the child to lie down
  - Do not agitate the child
- Ongoing assessment of the effectiveness of breathing
  - Refer to “Respiratory Arrest / Failure - Pediatric” protocol, if necessary
- Airway management and appropriate oxygen therapy
- If SEVERE respiratory distress, facial or oral edema, and/or hypoperfusion:
  - Administer the epinephrine autoinjector (e.g. EpiPen®), if available and trained
    - Adult autoinjector 0.3 mg IM (e.g. EpiPen®) if ≥ 30 kg*
    - Pediatric autoinjector 0.15 mg IM (e.g. EpiPen Jr®) if < 30 kg*
- If patient has a history of true anaphylaxis* and has an exposure to an allergen developing respiratory distress and/or hypoperfusion and/or rash:
  - Administer the epinephrine autoinjector (e.g. EpiPen®), if available and trained
    - Adult autoinjector 0.3 mg IM (e.g. EpiPen®) if ≥ 30 kg*
    - Pediatric autoinjector 0.15 mg IM (e.g. EpiPen Jr®) if < 30 kg*
- If the patient does not improve within 5 minutes, you MAY repeat epinephrine once

CFR STOP

EMT

- The EMT epinephrine kit, utilizing the appropriate dose above, may be substituted for an autoinjector (e.g. EpiPen®) in the section above, as available and as trained
- If the patient is wheezing, albuterol 2.5 mg in 3 mL (unit dose), via nebulizer; may repeat to a total of three doses

EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Epinephrine (as available and as trained) for indications other than those above
- Additional albuterol

KEY POINTS/CONSIDERATIONS

- Though a previous history of anaphylaxis is an important indicator for treatment, providers should be aware that anaphylaxis may develop in patients with no prior history
- Infant auto-injector (0.1 mg IM) may be substituted for patients < 15 kg, if available
- Anaphylaxis may present with shock associated only with GI symptoms. In the setting of a known exposure to an allergen associated with shock, nausea, vomiting, abdominal pain, and/or diarrhea, consider anaphylaxis in consult with medical control.
- *If equipped and trained
Behavioral Emergencies
Applies to adult and pediatric patients

Criteria
- This protocol is intended to be used with patients who are deemed to pose a danger to themselves or others

CFR AND ALL PROVIDER LEVELS
- Call for law enforcement
- Airway management, vital signs, and appropriate oxygen therapy, if tolerated
- Verbal de-escalation (utilizing interpersonal communication skills)
- If verbal de-escalation is not successful or not possible, apply soft restraints, such as towels, triangular bandages, or commercially available soft medical restraints, only if necessary to protect the patient and others from harm

EMT
- Check blood glucose level, if equipped, as soon as you are able to safely do so. If abnormal, refer to the “AMS: Altered Mental Status” protocol, as indicated

KEY POINTS/CONSIDERATIONS
- Assess the scene for safety and, if it is not, retreat to a safe location and obtain police assistance
- **Patient must NOT be transported in a face-down position**
- Consider hypoxia, hypoperfusion, hypoglycemia, head injury, intoxication, other drug ingestion, and other medical/traumatic causes of abnormal behavior
- Consider the possibility of a behavioral/developmental disorder such as autism spectrum disorder or mental health problems
- A team approach should be attempted for the safety of the patient and the providers
- If the patient is in police custody and/or has handcuffs on, a police officer should accompany the patient in the ambulance to the hospital. The provider must have the ability to immediately remove any mechanical restraints that hinder patient care at all times
Carbon Monoxide Exposure – Suspected
Applies to adult and pediatric patients

Criteria

- For patients with smoke inhalation, patients for whom a CO alarm has gone off in the residence, or any other potential exposure to CO

CFR AND ALL PROVIDER LEVELS

- Any patient with suspected carbon monoxide poisoning should receive high flow oxygen via non-rebreather mask (NRB)

EMT

- An objective carbon-monoxide evaluation tool may be used to guide therapy, if available
- Any pregnant (or potentially pregnant) woman should receive high flow oxygen and be transported to the hospital

ASYMPTOMATIC potentially exposed people:

- An asymptomatic patient with a known CO level >25% should receive high flow oxygen and be transported to the hospital
- An asymptomatic patient with a CO level 12-25% should receive high flow oxygen for 30 minutes and then should be reassessed, unless the patient requests transport to the hospital
  - Strongly encourage transport if CO levels are not decreasing
- Any asymptomatic patient with a CO level >25% should receive high flow oxygen and be transported to the hospital

SYMPTOMATIC patients:

- Carbon monoxide poisoning does not have specific, clear cut symptoms; other medical conditions may present with dizziness, nausea, and/or confusion
- All symptomatic patients should be transported, regardless of CO level
- If there is no soot in the airway, consider CPAP* 5-10 cm H₂O (if the device delivers 100% oxygen)

MULTIPLE patients:

- Consult medical control for guidance regarding transport location decisions and on-scene treatment and release when multiple patients are involved
- If there is potential for greater than 5 patients, consider requesting an EMS physician to the scene if available

EMT STOP

KEY POINTS/CONSIDERATIONS

- The Masimo RAD 57® is an example of an objective carbon-monoxide evaluation tool
  - Consider direct transport to a hyperbaric center if patient’s SpCO reading is >25% and/or the patient had any loss of consciousness, has significant altered mental status / abnormal neurologic exam, or the patient is pregnant
- Pediatrics: Assure your device is approved for pediatric use and, if so, that pediatric appropriate sensors are utilized
- Pregnant women: The fetal SpCO may be 10-15% higher than maternal reading
- Smokers: Heavy smokers may have baseline SpCO levels up to 10%
- A misapplied or dislodged sensor may cause inaccurate readings
- Do not use tape to secure the sensor
- Do not place the sensor on the thumb or 5th digit
- There is no commercial endorsement implied by this protocol
- *if equipped and trained
Cardiac Related Problem
“Cardiac Related Problem - Pediatric”

CRITERIA
- For patients presenting with suspected cardiac chest pain: angina or an anginal equivalent

CFR AND ALL PROVIDER LEVELS
- Airway management and appropriate oxygen therapy
- Aspirin 324 mg (4 x 81 mg tabs) chewed, only if able to chew**

CFR STOP

EMT
- Acquire and transmit 12-lead ECG*
  - For patients with a confirmed STEMI, begin transport to a facility capable of primary angioplasty if estimated arrival to that facility is within 60 minutes of patient contact or if directed by medical control or regional procedure
- If the patient requests, assist patient with his or her prescribed nitroglycerin, up to 3 doses, 5 minutes apart, provided the patient’s systolic BP is > 120 mmHg

EMT STOP

MEDICAL CONTROL CONSIDERATIONS
- Additional nitroglycerin 0.4 mg SL, or equivalent, every 5 minutes for EMT
- Consider medical control consultation, as needed, for determination of most appropriate destination facility

KEY POINTS/CONSIDERATIONS
- Focus on maintaining ABCs, rapid identification, rapid notification, and rapid transport to an appropriate facility
- Vitals, as well as 12-lead ECG (if equipped and regionally approved), should be assessed frequently during transport
- If the patient becomes hypotensive after nitroglycerin administration, place the patient in a supine position, if there is no contraindication to doing so (such as severe pulmonary edema)
- Aspirin should not be enteric coated
- The patient may have been advised to take aspirin prior to arrival by emergency medical dispatch. You may give an additional dose of aspirin (324 mg chewed) if there is any concern about the patient having received an effective dose prior to your arrival
- Consider 12-lead ECG for adults, with any one of the following: dyspnea, syncope, dizziness, fatigue, weakness, nausea, or vomiting
- **If equipped and trained for CFR level
- *If equipped, trained, and regionally approved
Cardiac Related Problem – Pediatric

CRITERIA

Pediatric patients who have known heart disease and/or have been operated on for congenital heart disease have medical emergencies that are different from adults with heart disease. Pediatric patients with congenital heart disease may:

• have baseline oxygen saturations between 65 and 85% rather than above 94% (ask care provider about patient’s usual oxygen saturation level)
• develop sudden heart rhythm disturbances
• be fed by either a nasogastric tube (tube in nose) or by gastrostomy (tube through abdominal wall)
• not have a pulse or accurate blood pressure in an extremity after heart surgery
• have a pacemaker

CFR AND ALL PROVIDER LEVELS

• ABCs and vital signs, including blood pressure
• Keep patient on continuous pulse oximeter monitoring, if available (will monitor both heart rate and SpO₂)
• Ask parents if the patient has a heart condition and/or has been operated on (look for a scar in the middle or side of chest); ask what type of heart condition it is.
• Keep the child in a somewhat upright position to enable optimal breathing, or allow child to be in position of comfort
• Ask parents what the child’s usual oxygen saturation is and provide only sufficient oxygen to bring the SpO₂ to his/her usual baseline
• Ask parent if the patient has a pacemaker and/or internal defibrillator
• Do not give anything by mouth
• If patient has a fever, minimize the child’s clothing and keep the ambulance at a comfortable temperature

EMT

• Assess for signs of poor perfusion (such as prolonged capillary refill > 2 seconds, cool and dusky distal extremities, poor radial and dorsalis pedis pulses, and/or hypotension)
• If patient has a gastrostomy tube, suggest to parent/caregiver to open the tube to air or aspirate stomach contents to improve the child’s ability to breathe
• Obtain vital signs including blood pressure every 15 minutes
• If patient has altered mental status, obtain fingerstick blood glucose and refer to the “Altered Mental Status” protocol

Key Points/Considerations
• Chest pain in children is rarely a sign of a cardiac condition (it is more frequently related to conditions such as costochondritis or pleuritis)
• Notify the destination hospital ASAP and state that the patient has signs of cardiac failure or decompensation
• Infants with congenital heart disease may present with symptoms very similar to septic shock (poor perfusion, poor distal pulses, tachypnea, or dusky appearance)
• Pediatric patients with a congenital heart condition often have oxygen saturations in the 65-85% range. Too much oxygen may be detrimental and result in worsening circulation
• Pediatric patients with a cardiac condition may have sudden arrhythmias that require treatment, including SVT. Full cardiopulmonary monitoring should be done by ALS
• Transport to hospital should not be delayed in ill pediatric cardiac patients

<table>
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<tr>
<th>&lt; 1 mo</th>
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<th>1 – 10 yr</th>
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<td>Systolic Hypotension:</td>
<td>&lt; 60</td>
<td>&lt; 70</td>
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Childbirth: Obstetrics

CRITERIA

- Childbirth is a natural phenomenon and the type of delivery cannot be regulated by your level of certification – if an CFR is faced with anything but a normal delivery, please feel comfortable calling medical control for assistance

CFR AND ALL PROVIDER LEVELS

- **Management of a normal delivery**
  - Support the baby’s head over the perineum with gentle pressure
  - If the membranes cover the head after it emerges, tear the sac with your fingers or forceps to permit escape of the amniotic fluid
  - Gently guide the head downward until the shoulder appears
  - The other shoulder is delivered by gentle upward traction
  - The infant’s face should be upward at this point

- **EMT**

  - **Management of Umbilical Cord Around Neck**
    - Umbilical cord around the neck is an emergency, as the baby is no longer getting any oxygen either through the cord or by breathing
    - If the cord is around the neck:
      - Unwrap the cord from around the neck, if possible
      - Clamp the umbilical cord with two clamps
      - Cut the cord between them
  
  - **Management of a Breech Delivery**
    - Support the buttocks or extremities until the back appears
    - Grasp the baby’s ILIAC WINGS and apply gentle downward traction. DO NOT pull on the legs or back, as this may cause spine dislocation or adrenal hemorrhage
    - Gently swing the infant’s body in the direction of least resistance
    - By swinging anteriorly and posteriorly, both shoulders should deliver posteriorly
    - Splint the humerus bones with your two fingers; apply gentle traction with your fingers
    - Gentle downward compression of the uterus will assist in head delivery
    - Swing the legs upward until the body is in a vertical position. This will permit delivery of the head

  - **Management of Prolapsed Cord or Limb Presentation**
    - Place the mother in a face-up position with hips elevated
    - Place a gloved hand in the vagina; attempt to hold baby’s head away from the cord and maintain an airway for the baby
    - Keep the cord moist using a sterile dressing and sterile water
    - Transport as soon as possible to closest appropriate facility
• Obtain additional help for multiple births, as needed
• See “Childbirth: Newborn / Neonatal Care” protocol for subsequent instructions
• Determine the estimated date of expected birth, the number of previous pregnancies and number of live births
• Determine if the amniotic sac (bag of waters) has broken, if there is vaginal bleeding, mucous discharge, or the urge to bear down
• Determine the duration and frequency of uterine contractions
• Examine the patient for crowning:
  • If delivery is not imminent, transport as soon as possible
  • If delivery is imminent, prepare for an on-scene delivery
• If multiple births are anticipated, but the subsequent births do not occur within 10 minutes of the previous delivery, transport immediately
• After delivery of the placenta, massage the lower abdomen
• Take the placenta and any other tissue to the hospital for inspection
• Do not await the delivery of the placenta for transport
• If uterine inversion occurs (uterus turns inside out after delivery and extends through the cervix), treat for shock and transport immediately. If a single attempt to replace the uterus fails, cover the exposed uterus with moistened sterile towels
Childbirth: Newborn / Neonatal Care

CRITERIA

- For the evaluation and resuscitation of babies just delivered

CFR AND ALL PROVIDER LEVELS

EMT

Assess the infant’s respiratory status, pulse, responsiveness, and general condition

- If the infant is breathing spontaneously and crying vigorously, and has a pulse > 100/min:
  - Clamp the umbilical cord with two clamps, three inches apart, and cut the cord between them at least 1 min after delivery. The first clamp should be 8 – 10 inches from the baby. Place the second clamp 3 inches from the first clamp toward the mother
  - Cover the infant’s scalp with an appropriate warm covering
  - Wrap the infant in a dry, warm blanket or towels and a layer of foil or plastic wrap over the layer of blankets or towels or use a commercial-type infant swaddler, if one is provided with the OB kit. Do not use foil alone
  - Keep the infant warm and free from drafts. Continuously monitor the infant’s respirations

- If the infant is not breathing spontaneously or not crying vigorously:
  - Gently rub the infant’s lower back
  - Gently tap the bottom of the infant’s feet

- If the respirations remain absent, gasping, or become depressed (< 30/min) despite stimulation, if the airway is obstructed, or if the heart rate is < 100/min:
  - Clear the infant’s airway by suctioning the mouth and nose gently with a bulb syringe, and then ventilate the infant at a rate of 40 – 60 breaths/minute with an appropriate BVM as soon as possible, with a volume just enough to see chest rise. Start with room air. If no response after 30-60 seconds of effective ventilation add oxygen
  - Each ventilation should be given gently, over one second per respiratory cycle, assuring that the chest rises with each ventilation
  - Monitor the infant’s pulse rate (by palpation at the base of the umbilical cord or by auscultation over the heart), and apply continuous pulse oximetry using (ideally the right) wrist or palm, *if available and trained

- If the pulse rate drops < 60 beats per minute at any time:
  - Perform chest compressions with assisted ventilations at a 3:1 compression to ventilation ratio

CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

- Hypothermia and hypoglycemia may decrease the likelihood of successful resuscitation
- Begin transport to the closest appropriate hospital as soon as possible
Difficulty Breathing: Asthma / Wheezing

“Difficulty Breathing: Asthma / Wheezing - Pediatric” or “Difficulty Breathing: Stridor - Pediatric”

CRITERIA

- Patients with effective but increased work of breathing
  - Excludes traumatic causes of dyspnea
  - Excludes pneumothorax

CFR AND ALL PROVIDER LEVELS

- Assess for foreign body airway obstruction
  - Refer immediately to the “Foreign Body Obstructed Airway” protocol, if indicated
- Ongoing assessment of the effectiveness of breathing
  - Refer to the “Respiratory Arrest / Failure” protocol, if necessary
- Administer supplemental oxygen; refer to the “Oxygen Administration” protocol
- Facilitate transportation, ongoing assessment, and supportive care

EMT

- Assist patient with their own medications (see “Prescribed Medication Assistance” protocol), as appropriate
- If patient has a known diagnosis of asthma:
  - Administer albuterol 2.5 mg in 3 mL (unit dose) via nebulizer* set at 5-8 LPM
  - May repeat to a total of three doses if symptoms persist
- Continuous Positive Airway Pressure (CPAP) 5-10 cm H₂O as needed*
- If the patient is in severe distress, see medical control considerations for use of epinephrine

MEDICAL CONTROL CONSIDERATIONS

- Albuterol via nebulizer by EMT for indications other than asthma
- Epinephrine for critical asthma attack (EMT epinephrine kits or autoinjector e.g. EpiPen®)

KEY POINTS/CONSIDERATIONS

- Wheezing does not always indicate asthma. Consider allergic reaction, airway obstruction, pulmonary edema, or COPD exacerbation
- Allow the patient to maintain position of comfort when safe to do so
  - Do not force the patient to lie down
  - Do not agitate the patient
- Observe airborne and/or droplet precautions in appropriate patients, such as those with suspected tuberculosis
- Do not delay transport to complete medication administration
- *If equipped and trained
Difficulty Breathing: Asthma / Wheezing – Pediatric

**CRITERIA**
- Patients with increased work of breathing (retractions, grunting, nasal flaring) and prolonged expiration and/or poor air movement
  - Excludes traumatic causes of dyspnea
  - Excludes pneumothorax
  - Excludes stridor / croup (see “Difficulty Breathing: Stridor - Pediatric” protocol)

**CFR AND ALL PROVIDER LEVELS**
- Assess for foreign body airway obstruction
  - Refer immediately to the “Pediatric Foreign Body Obstructed Airway” protocol, if indicated
- Ongoing assessment of the effectiveness of breathing
  - Refer to the “Pediatric Respiratory Arrest / Failure” protocol, if necessary
- Allow patient to determine position of comfort. If patient cannot do so, have patient sit upright or elevate the head of the stretcher
- Administer supplemental oxygen; refer to the “Oxygen Administration” protocol
- Facilitate transportation, ongoing assessment, and supportive care

**EMT**
- Assist patient with their own asthma medications (see “Prescribed Medication Assistance” protocol), as appropriate
- If patient has a known diagnosis of asthma:
  - Administer albuterol 2.5 mg in 3 mL (unit dose) via nebulizer* set at 5-8 LPM
  - May repeat to a total of three doses if symptoms persist
- If the patient is in severe distress, see medical control considerations for use of epinephrine
- For older pediatric patients consider CPAP for EMT, as equipment size allows if available and trained

**MEDICAL CONTROL CONSIDERATIONS**
- Albuterol via nebulizer by EMT for indications other than asthma
- Epinephrine for critical asthma attack (EMT epinephrine kits or autoinjector e.g. EpiPen®)

**KEY POINTS/CONSIDERATIONS**
- Expiratory wheezing does not always indicate asthma. Consider allergic reaction, airway obstruction, pulmonary edema
- In children under 2 yr old, bronchiolitis is the most common cause of wheezing. Gentle nasal suctioning is the primary treatment along with oxygen, particularly in infants. Some children may respond to albuterol per medical control
- Allow the patient to maintain position of comfort when safe to do so
• Do not force the patient to lie down
• Do not agitate the patient
• Observe airborne and/or droplet precautions in appropriate patients, such as those with suspected pertussis (whooping cough)
• Do not delay transport to complete medication administration
• *If equipped and trained
**Difficulty Breathing: Stridor – Pediatric**

**CFR AND ALL PROVIDER LEVELS**

**EMT**

- Assess for foreign body airway obstruction
  - Refer immediately to the “Foreign Body Obstructed Airway - Pediatric” protocol, if indicated
- Assess for anaphylaxis
  - Refer immediately to the “Anaphylaxis - Pediatric” protocol, if indicated
- Ongoing assessment of the effectiveness of breathing
  - Refer to the “Respiratory Arrest / Failure - Pediatric” protocol, if necessary
- Administer supplemental oxygen; refer to the “Oxygen Administration” protocol
  - Consider high concentration, humidified, blow-by oxygen delivered by tubing or face mask held about 3-5 inches from face (as tolerated)
- Facilitate transportation, ongoing assessment, pulse oximeter, and supportive care

**CFR AND EMT STOP**

**KEY POINTS/CONSIDERATIONS**

- If the patient has stridor (inspiratory), it is often an upper airway obstruction
- Viral croup should be considered in children presenting with absent or low grade fever, barking cough, stridor, and/or sternal retractions
- Epiglottitis should be considered in children with a high fever, muffled voice, tripod position, and/or drooling
  - A vaccination history should be obtained because unvaccinated children are at higher risk of epiglottitis
- Agitating a child with croup or epiglottitis could cause a complete airway obstruction
- Limit interventions that may cause unnecessary agitation in a child with stridor such as assessment of blood pressure in a child who can still breathe, cough, cry, or speak
Environmental – Cold Emergencies
Applies to adult and pediatric patients

CRITERIA

• For patients presenting with localized cold injury or hypothermia

CFR AND ALL PROVIDER LEVELS

• ABCs, vital signs
• Remove the patient from the cold environment
• For local cold injury:
  • Protect areas from pressure, trauma, and friction
  • Do not break blisters
  • Do not rub the injured area
  • Remove clothing and jewelry
• For generalized hypothermia:
  • Handle patient carefully to prevent cardiac dysrhythmias
  • Gently remove wet clothing and dry the patient
  • If oxygen is required, provide warm, humidified oxygen, if available
  • Place heat packs, if available, in the patient’s groin area, lateral chest, and neck
  • Wrap the patient in dry blankets and maintain a warm environment
    ▪ Especially for elderly as well as infants and young pediatric patients, cover the head with a cap or towel to decrease heat loss

EMT STOP

EMT

• Rewarm the extremity (if the means to do so are available) only if anticipated time to the hospital exceeds 60 minutes, the patient presents with early or superficial local cold injury only, and there is no concern that the extremity will freeze again:
  • Immerse the affected part in a warm water bath ≤ 105 °F; water should feel warm, but not hot
  • Frequently stir the water and assure it remains warm
  • Continue the immersion in warm water until the extremity is soft, and color and sensation return
  • Dress the area with dry, sterile dressings
    ▪ If a hand or foot is involved, place sterile dressings between fingers or toes
  • Prevent the warmed part from freezing again

EMT STOP

KEY POINTS/CONSIDERATIONS

• Patients with severe hypothermia may have very slow heart rates
• If defibrillation is required, provide no more than three shocks
• Pulse oxygenation measurement may be inaccurate if the patient is hypothermic. If the patient is cyanotic and in apparent respiratory distress, administer oxygen
Environmental – Heat Emergencies
Applies to adult and pediatric patients

**CFR AND ALL PROVIDER LEVELS**

**EMT**
- ABCs, vital signs
- Loosen or remove clothing
- For patients presenting with moist, pale, and normal to cool skin temperature:
  - If the patient is not nauseated and able to drink water without assistance, have the patient drink water
- For patients presenting with hot, flushed, and dry skin:
  - Apply cold packs to patient’s neck, groin, and armpits
  - Keep the patient’s skin wet by applying wet sponges or towels

**CFR AND EMT STOP**

**KEY POINTS/CONSIDERATIONS**
- Stable patients with normal mental status and no signs of hot, dry skin may only require oral rehydration and cooling
- Do not delay transport to treat the patient on the scene; transport is suggested for all patients who present with a heat emergency
- Water intoxication occurs when patients ingest excessive water which causes potentially life-threatening electrolyte abnormalities
  - Suspect in long distance runners who consume large amounts of water and present with collapse or confusion
  - Cool the patient, as indicated, and contact medical control before administering any oral fluid to a patient with suspected water intoxication
Opioid (Narcotic) Overdose
Applies to adult and pediatric patients

<table>
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<tr>
<th>CFR AND ALL PROVIDER LEVELS</th>
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<tbody>
<tr>
<td><strong>EMT</strong></td>
</tr>
<tr>
<td>• ABCs, vital signs</td>
</tr>
<tr>
<td>• Airway management and appropriate oxygen therapy</td>
</tr>
<tr>
<td>• Check blood glucose level, if equipped</td>
</tr>
<tr>
<td>• Refer to the “General: Altered Mental Status” protocol, as indicated</td>
</tr>
<tr>
<td>• Determine what and how much was taken, along with the time, if possible</td>
</tr>
<tr>
<td>• For suspected opioid overdose and hypoventilation* or respiratory arrest, administer naloxone (Narcan®) 2 mg** IN; 1 mg per nostril, may repeat once in 5 minutes, if no significant improvement occurs</td>
</tr>
<tr>
<td>• In the pediatric patient, administer naloxone (Narcan®) 1 mg** IN, ½ mg per nostril, may repeat once in 5 minutes, if no significant improvement occurs</td>
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<thead>
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<th>CFR AND EMT STOP</th>
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<tbody>
<tr>
<td><strong>KEY POINTS/CONSIDERATIONS</strong></td>
</tr>
<tr>
<td>• *Only administer naloxone (Narcan®) to patients with suspected opioid overdose with hypoventilation (slow/shallow or ineffective respirations). For provider and patient safety, do not administer without a medical control order if there are adequate ventilations</td>
</tr>
<tr>
<td>• **May substitute alternative FDA and SEMAC approved, commercially prepared 4mg nasal spray unit dose device</td>
</tr>
<tr>
<td>• This device is approved for the full 4 mg dose in the adult or pediatric patient</td>
</tr>
<tr>
<td>• Administer 4mg in 1 nostril as a single spray</td>
</tr>
<tr>
<td>• ALS providers may titrate the naloxone (Narcan®) dose to assure adequate ventilation</td>
</tr>
<tr>
<td>• If high suspicion of opioid overdose, providers may administer naloxone (Narcan®) prior to checking a blood glucose level</td>
</tr>
<tr>
<td>• Do NOT give naloxone (Narcan®) to any intubated patient without a medical control order unless they are in cardiac arrest</td>
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Poisoning
Applies to adult and pediatric patients

CRITERIA

- This protocol is intended for the undifferentiated toxic exposure
  - For altered mental status and hypoglycemia, see the “AMS: Altered Mental Status” protocol
  - For opioid (narcotic) overdose, see the “Opioid (Narcotic) Overdose” protocol
  - For carbon monoxide exposure see “Carbon Monoxide – Suspected” protocol

CFR AND ALL PROVIDER LEVELS

EMT

- Decontamination, as needed
- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- Determine what and how much was taken, along with the time and duration of the exposure
- Check a blood glucose level, if equipped
- For contamination of the skin or eyes, refer to the “Burns” protocol

CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

- Take precautions to assure providers do not get exposed
- For inhalation exposures, assure patient is moved to fresh air
Seizures
Applies to adult and pediatric patients

CFR AND ALL PROVIDER LEVELS

EMT

- Airway management and appropriate oxygen therapy
  - Suction the airway as needed
  - Position the patient on the side if vomiting
  - Do not put anything in the patient’s mouth when the patient is actively seizing
    - Utilize an appropriate airway adjunct, if needed, after the seizure has ended
- Protect the patient from harm
  - Remove hazards from the patient’s immediate area
  - Avoid unnecessary restraint
- Check a blood glucose level, if equipped.
  - If abnormal, refer to the “AMS: Altered Mental Status” protocol
- Ongoing assessment of the effectiveness of breathing
  - Refer to the “Respiratory Arrest / Failure” or “Respiratory Arrest / Failure - Pediatric” protocol, if necessary

CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

- Patients may become confused and combative after a seizure in their postictal state
  - Protect yourself and the patient
  - Obtain law enforcement assistance, if needed
- Status epilepticus (continuing seizure) is a critical medical emergency. Anticonvulsant medication should be administered as soon as possible, preferably starting no later than 5-10 minutes after the onset of the seizure
Sepsis / Septic Shock

“Sepsis / Septic Shock – Pediatric”

Criteria

Protocol activated for an adult patient with all three of the following:

- Suspected infection
- Hypotension (systolic BP < 90 mmHg) OR altered mental status
- At least two of the following:
  - Heart rate > 90
  - Respiratory rate > 20 or PaCO₂ < 32 mmHg
  - Temperature > 100.4° F (38° C), if available
  - White blood count > 12,000 OR < 4,000 cells/mm³ OR > 10% bands, if available

CFR AND ALL PROVIDER LEVELS

- ABCs and vital signs, including blood pressure
- Airway management and high flow oxygen (non-rebreather as tolerated)
- If the patient has altered mental status, refer to the “AMS: Altered Mental Status” protocol
- Attempt to maintain normal body temperature

  **CFR STOP**

EMT

- Advise the destination hospital that the patient has signs of sepsis/septic shock
- Obtain vital signs, including blood pressure, frequently

  **CFR AND EMT STOP**

KEY POINTS/CONSIDERATIONS

- Sepsis / septic shock is a life-threatening condition and must be recognized and treated as rapidly as possible
- Concern for any new or worsening infection includes reported fever, shaking chills, diaphoresis, new cough, difficult or less than usual urination, unexplained or newly altered mental status, flushed skin, pallor, new rash, or mottling
Sepsis / Septic Shock – Pediatric

CRITERIA

Pediatric patients with suspected infection who are abnormally hot or cold to touch, and/or have a fever over 38.5 C (101.3 F) or less than 36 C (96.8 F) and high heart rate (age dependent) and/or high respiratory rate (age dependent) with:

- Poor perfusion (capillary refill > 3 seconds, decreased peripheral pulses, distal extremity (hands/feet) coolness and dusky color, or hypotension (age-dependent), and/or
- Need for oxygen, and/or
- Altered mental status (lethargy, irritability)

CFR AND ALL PROVIDER LEVELS

- ABCs and vital signs, including blood pressure
- Airway management and high flow oxygen (non-rebreather as tolerated)
- If the patient has altered mental status, refer to the “AMS: Altered Mental Status” protocol
- Attempt to maintain normal body temperature

CFR STOP

EMT

- Advise the destination hospital that the patient has signs of sepsis/septic shock
- Obtain vital signs, including blood pressure, frequently

EMT STOP

KEY POINTS/CONSIDERATIONS

- Sepsis / septic shock is a life-threatening condition in children and must be recognized and treated as rapidly as possible
- Vital sign criteria for defining sepsis:
  - Tachycardia:
    - < 1 mo. >180
    - < 1 yr >180
    - 1 yr-11 yr >140
    - >11 yr >110
  - Tachypnea:
    - < 1 mo. >60
    - < 1 yr >40
    - 1 yr-11 yr >30
    - >11 yr >20
  - Hypotension*:
    - < 1 mo. < 60
    - < 1 yr < 70
    - 1 yr-11 yr (< 70 + 2 x age)
    - >11 yr < 90
- *Blood pressures may be very difficult to obtain in infants – assure the respiratory rate and pulse are measured accurately
- Communication with the destination hospital is critical so that they can prepare to treat the child aggressively
Stroke
Applies to adult and pediatric patients

CRITERIA
- Regional procedure will take precedence, as applicable
- For patients presenting with acute focal neurologic deficits including, but not limited to, slurred speech, facial droop, and/or unilateral (one-sided) weakness or paralysis

CFR AND ALL PROVIDER LEVELS
- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- Check a blood glucose level, if equipped.
  - If abnormal, refer to the “AMS: Altered Mental Status” protocol
- Determine the “Last Known Well”; the exact time the patient was last in his or her usual state of health and/or seen without symptoms by interviewing the patient, family, and bystanders (this may be different than the “Time of Symptom Onset”)

EMT
- Perform a neurological exam, including Cincinnati Stroke Scale or other regionally approved stroke scale
- If time from last known well or time of symptom onset to estimated arrival in the ED will be less than 3.5 hours, unless otherwise regionally designated, transport the patient to a NYS DOH Designated Stroke Center, or consult medical control to discuss an appropriate destination facility
- Follow any local or regional guidelines for triage of stroke patients to centers with endovascular capabilities, if available
- Notify the destination hospital ASAP
- Do not delay transport

KEY POINTS/CONSIDERATIONS
- Make sure to record Last Known Well and who reported that information as part of your verbal report at the hospital and in your written documentation
- “Time of Symptom Onset” is also a key piece of information if available from witnesses Cincinnati Prehospital Stroke Scale:
  - Have the patient repeat, “You can’t teach an old dog new tricks”
  - Assess for correct use of words and lack of slurring
  - Have the patient smile
  - Assess for facial droop
  - Have the patient close eyes and hold arms straight out for 10 seconds
  - Assess for arm drift or unequal movement of one side
Technology Assisted Children

**CRITERIA**

- Children with special health care needs requiring technological assistance for life support:
  - Tracheostomy
  - Central venous catheters (tunneled catheter, Broviac catheter, Mediport, PICC)
  - CSF shunt (e.g. ventriculoperitoneal or V-P shunt)
  - Gastrostomy (PEG tube)
  - Colostomy or ileostomy
  - Ureterostomy or nephrostomy tube or Foley catheter

**CFR AND ALL PROVIDER LEVELS**

- ABCs and vital signs including blood pressure
- Basic airway management if needed, give high flow oxygen (non-rebreather) if needed
- Supportive measures (device-specific):
  - Tracheostomy
    - If on ventilator and there are respiratory concerns, disconnect and attempt to ventilate via tracheostomy adapter using BVM
    - If tracheostomy tube is fully or partially dislodged, remove it, cover tracheostomy stoma with an occlusive dressing, and ventilate via mouth and nose using BVM
  - Central venous catheters: if catheter is broken or leaking, clamp catheter between patient and site of breakage or leakage
  - Gastrostomy tube or button, ureterostomy or nephrostomy tube: if tube or button is fully dislodged, cover the site with an occlusive dressing; if partially dislodged, tape in place
  - Gastrostomy, colostomy, ileostomy, or nephrostomy: if stoma site is bleeding, apply gentle direct pressure with a saline-moistened gauze sponge
  - Foley catheter: if catheter is dislodged, tape in place

**CFR STOP**

**EMT**

- Notify the destination hospital ASAP and state that the patient has special health care needs that requires technological assistance (be specific)
- Obtain frequent vital signs, including blood pressure

**EMT STOP**

**KEY POINTS/CONSIDERATIONS**

- Listen to the caregivers. They know their child best. Allow them to assist with care.
- Inquire about:
• Presence of a Patient Care Plan (PCP)
• Syndromes/diseases
• Devices/medications
• Child’s baseline abilities
• Usual vital signs
• Symptoms?
• What is different today?
• Best way to move the child
• Look for MedicAlert® jewelry, Emergency Information Form (EIF), or Patient Care Plan (PCP), or other health care forms, if usual caregiver is not available
• Take Emergency Information Form (EIF), Patient Care Plan, or other health care forms to the hospital with the patient
• Assess and communicate with the child based on developmental, not chronological, age
• Take necessary specialized equipment (e.g. patient trach/ventilator pack, G-tube connectors, etc.) to the hospital with the patient if possible
Total Artificial Heart (TAH)
Applies to adult and pediatric patients

Criteria

- Any request for service that requires evaluation and transport of a patient with a Total Artificial Heart.

CFR AND ALL PROVIDER LEVELS

EMT

- Assess airway and breathing. Hypertension or volume overload can quickly cause pulmonary edema to develop
- Do not use an AED or cardiac monitor.
- Assess pulse and artificial heart function:
  - If no pulse present:
    - Consider early consult with TAH coordinator or medical control
    - Check for severed or kinked TAH driveline (address if possible)
    - Check battery position and power status (replace if possible)
    - Use the backup driver, or hand pump, if available
    - Do not perform chest compressions or place an AED
- Assess blood pressure: goal blood pressure is >90 mmHg and <150 mmHg
- Perform a secondary assessment and treat per protocol
  - If unresponsive with a pulse, evaluate for noncardiac etiologies
- Notify the receiving hospital once en route regardless of patient’s complaint
- Assure that patient has both drivers (compressors), hand pump, all batteries, and power cords for transport
- Any trained support member should remain with patient

MEDICAL CONTROL CONSIDERATIONS

- Termination of resuscitation
- Consultation with a TAH program provider

KEY POINTS/CONSIDERATIONS

- TAH patients have had their heart removed and replaced with a rigid device which pneumatically pumps blood throughout the body
- As these patients do not have a heart, there is no indication for an EKG or cardiac monitoring. A functioning TAH will not result in any measurable electrical activity
- TAH patients are on anticoagulation and may have significant bleeding with minor injuries
- The TAH patient has normal pulse and blood pressure detectable by conventional methods and are highly preload and afterload sensitive:
  - Target Blood Pressure is <150 mmHg and > 90 mmHg
  - Pulse rate is set and regular, between 120-135 bpm
Ventricular Assist Device (VAD)

**Criteria**

- Any request for service that requires evaluation and/or transport of a patient with a Ventricular Assist Device (VAD)

**CFR AND ALL PROVIDER LEVELS**

- Assess airway and breathing. Treat airway obstruction or respiratory distress per protocol. Treat medical or traumatic conditions per protocol.
- Assess circulation:
  - Auscultate over the precordial/epigastric area for a motorized “hum” and simultaneously visualize the controller for a green light or lit screen.
  - Assess perfusion based on mental status, capillary refill, and skin color.
  - In continuous flow VAD patients (HeartMate II®, Heartware®, or axial flow device), the absence of a palpable pulse is normal even in the setting of a normally functioning device. Patients may not have a readily measurable blood pressure.
  - In pulsatile flow VAD patients with a HeartMate III® centrifugal device, patients may have a palpable pulse (pulse is generally set to 30 BPM) in the setting of a normally functioning device, yet may not have a readily measurable blood pressure.
  - Perform CPR only when there are no signs of flow or perfusion (the person is unresponsive, pulseless, and there is no evidence of the pump functioning [e.g., no motor “hum”]).
- Assess pump function:
  - Ascertain, and make note of: pump model, installing institution, and institution VAD coordinator phone number from a tag located on the pocket controller. Patients may also have a medical bracelet, necklace, or wallet card with this information.
  - Perform a secondary assessment and treat per appropriate protocol.
  - **Notify the receiving facility immediately and consider early consultation with the VAD coordinator or medical control,** regardless of the patient’s complaint.
  - Assure that patient has the power unit, extra batteries, and backup controller for transport.
  - A trained support member should remain with patient.

**CFR STOP**

**EMT**

- Unless otherwise directed by medical control, transport patient to a facility capable of managing VAD patients.

**EMT STOP**

**KEY POINTS/CONSIDERATIONS**

- Community patients with VADs are typically entirely mobile and independent.
• Trained support members include family and caregivers who have extensive knowledge of the device, its function, and its battery units. They may act as a resource to the EMS provider when caring for a VAD patient
• One set of fully charged batteries provides 8-10 hours of power:
  • If the battery or power is low, the batteries need to be replaced immediately
  • Assist with the replacement of batteries if directed by patient/caregiver
  • **Never disconnect both batteries at once as this can cause complete loss of VAD power**
• Keep the device components dry
• The most common complication in VAD patients is infection. VAD patients are susceptible to systemic illness, sepsis, and septic shock due to their abdominal driveline as a conduit of infection
• Patients with a VAD are highly preload dependent and afterload sensitive. Low flow alarms are frequently due to MAP >90 mmHg. The devices are sensitive to alterations in volume status and careful volume resuscitation is often necessary
• VAD patients are heavily anticoagulated and susceptible to bleeding complications.
• Patients may have VF/VT and be asymptomatic

**Controller Device Normal Values:**

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<th>Heartmate II©</th>
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<td>Pulsatility Index (PI)</td>
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</table>
Trauma Protocols
**Trauma Patient Destination**

Applies to adult and pediatric patients

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2011 Guidelines for Field Triage of Injured Patients

- **Measure vital signs and level of consciousness**
  - Glasgow Coma Scale
  - Systolic Blood Pressure (mmHg)
  - Respiratory Rate
  - 
  - NO
  - YES

- **Assess anatomy of injury**
  - All penetrating injuries to head, neck, torso, and extremities proximal to elbow or knee
  - Chest wall instability or deformity (e.g., flail chest)
  - Two or more proximal long-bone fractures
  - Crushed, degloved, mangled, or pulseless extremity
  - Amputation proximal to wrist or ankle
  - Pelvic fractures
  - Open or depressed skull fracture
  - Paralysis

- **Assess mechanism of injury and evidence of high-energy impact**
  - Falls
    - Adults: >20 feet (one story is equal to 10 feet)
    - Children: >10 feet or two or three times the height of the child
  - High-risk auto crash
    - Intrusion, including roof: >12 inches occupant side; >18 inches any side
    - Ejection (partial or complete) from automobile
    - Death in same passenger compartment
    - Vehicle telemetry data consistent with a high risk of injury
  - Auto vs. pedestrian/bicyclist thrown, run over, or with significant (>20 mph) impact
  - Motorcycle crash >20 mph

- **Assess special patient or system considerations**
  - Older Adults
    - Risk of injury/death increases after age 55 years
    - SBP <110 may represent shock after age 65
    - Low impact mechanisms (e.g., ground level falls) may result in severe injury
  - Children
    - Should be triaged preferentially to pediatric capable trauma centers
  - Anticoagulants and bleeding disorders
    - Patients with head injury are at high risk for rapid deterioration
  - Burns
    - Without other trauma mechanisms: triage to burn facility
    - With trauma mechanisms: triage to trauma center
  - Pregnancy >20 weeks
  - EMS provider judgment

- **Transport to a trauma center**, steps 1 and 2 attempt to identify the most seriously injured patients. These patients should be transported preferentially to the highest level of care within the defined trauma system.

- **Transport to a trauma center**, which, depending upon the defined trauma system, need not be the highest level trauma center.

- **Transport to a trauma center or hospital capable of timely and thorough evaluation and initial management of potentially serious injuries. Consider consultation with medical control.**

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When in doubt, transport to a trauma center.

Find the plan to save lives, at www.cdc.gov/fieldtriage

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National Center for Injury Prevention and Control
Division of Injury Response
Amputation
Applies to adult and pediatric patients

**CFR AND ALL PROVIDER LEVELS**

**EMT**
- Refer immediately to the “Bleeding / Hemorrhage Control” protocol, as indicated
- ABCs and vital signs
- Elevate and wrap the stump with moist sterile dressings and cover with dry bandage
- Consider spinal motion restriction, refer to “Suspected Spinal Injuries” protocol
- Provide or direct care for amputated part:
  - Moisten sterile dressing with sterile saline solution and wrap amputated part
  - Place the severed part in a water-tight container, such as a sealed plastic bag
  - Place this container on ice or cold packs, using caution to avoid freezing the limb

**CFR AND EMT STOP**

**KEY POINTS/CONSIDERATIONS**
- Distal amputations (those distal to wrist or ankle) do not typically require a trauma center
- Transport the amputated part with the patient, if possible, but do not delay transport to search for amputated part
- Consider medical control consultation if there is uncertainty regarding appropriate destination facility
Avulsed Tooth
Applies to adult and pediatric patients

Criteria
- For permanent teeth only

CFR AND ALL PROVIDER LEVELS

EMT
- ABCs and vital signs
- Hold the tooth by the crown (not the root)
- Quickly rinse the tooth with saline before reimplantation, but do not brush off or clean the tooth of tissue
- Remove the clot from the socket; suction the clot, if needed
- Reimplant the tooth firmly into its socket with digital pressure
- Have the patient hold the tooth in place using gauze and bite pressure
- Report to hospital staff that a tooth has been reimplanted

CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS
- The best transport medium for an avulsed tooth is in the socket, in the appropriate situation
  - The best chance for success is when reimplantation occurs within five minutes of the injury
  - If the patient has altered mental status, do not reimplant
  - If the patient must be transported in a supine position, do not reimplant
  - Do not reimplant if the alveolar bone / gingiva are missing, or if the root is fractured
  - Do not reimplant if the patient is immunosuppressed, or reports having cardiac issues that require antibiotics prior to procedures
- If the patient is not a candidate for reimplantation and avulsed a permanent tooth, place the avulsed tooth in interim storage media (commercial tooth preservation media, lowfat milk, patient’s saliva, or saline) and keep cool. Avoid tap water storage, if possible, but do not allow the permanent tooth to dry
Bleeding / Hemorrhage Control
Applies to adult and pediatric patients

Criteria

- This protocol authorizes the use of hemostatic dressings, compressive devices, and commercially manufactured tourniquets
  - These devices are not mandatory for any agency to stock or carry
- Junctional tourniquets, wound closure devices, and other hemostatic devices may be used in accordance with manufacturer instructions, if regionally approved
- Tactical application of these devices beyond this protocol may be regionally approved

CFR AND ALL PROVIDER LEVELS

EMT

- Immediate intervention for severe arterial bleeding:
  - Apply pressure directly on the wound with a dressing
    - Hemostatic gauze* may be applied with initial direct pressure
    - Hemostatic dressings are to be utilized according to manufacturer’s instructions and agency/squad training and may require removal of coagulated blood to directly access the source of bleeding
    - Rolled gauze may be used if hemostatic gauze is not available
    - Pack wound and hold pressure for at least 3 minutes
  - If bleeding soaks through the dressing, apply additional dressings
  - If bleeding is controlled, apply a pressure dressing to the wound
  - If severe bleeding persists, remove all conventional dressings, expose site of bleeding, and apply hemostatic dressing, according to manufacturer’s instructions and training
    - Cover the dressed site with a pressure bandage
    - Conventional and pressure splints may also be used to control bleeding
    - Use a tourniquet for uncontrollable bleeding from an extremity
      - Place tourniquet 2-3 inches proximal to the wound
      - If bleeding continues, you may place a second tourniquet proximal to the first, or above the knee or elbow, if wound is distal to these joints
      - Note the time of tourniquet application and location of tourniquet(s)
  - Refer to other appropriate trauma protocol(s), as indicated

 CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

- Hemodialysis access sites may result in life threatening hemorrhage. Direct digital pressure should be used first followed by tourniquet ONLY in the setting of life threatening hemorrhage when other means of hemorrhage control have been unsuccessful.
- In tactical environments where extremity bleeding sites cannot be rapidly determined, tourniquets may be placed high and tight in accordance with training
- *If equipped and trained
Burns
Applies to adult and pediatric patients

CFR AND ALL PROVIDER LEVELS

- Stop the burning
- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- Remove smoldering clothing that is not adhering to the patient’s skin
- Remove rings, bracelets, and constricting objects at or distal to burned area, if possible
- Cover the burn with dry sterile dressings
- Burns to the eye require copious irrigation with normal saline — do not delay irrigation
  - Other neutral fluid may be used, if needed, such as tap water
- Consider the potential for carbon monoxide poisoning and refer to the “Carbon Monoxide Exposure – Suspected” protocol, as indicated

CFR STOP

EMT

- Burns should be covered with dry, sterile dressings
  - Moist sterile dressings may be used to augment pain management only if the burn is ≤ 10 % BSA (body surface area)

EMT STOP

KEY POINTS/CONSIDERATIONS

- Assure scene safety and patient decontamination for chemical burns/HAZMAT exposure
  - For liquid chemical burns, flush with copious amount of water or saline, ideally for a minimum of 20 minutes
  - For dry powder burns, brush powder off before flushing
  - Use caution to avoid the spread of the contaminant to unaffected areas
- Consider other injuries, including cardiac dysrhythmias
- Consider smoke inhalation and airway burns
  - Administer high flow oxygen
  - Oxygen saturation readings may be falsely elevated
- If hazardous material involvement is suspected, immediately notify the destination hospital to allow for decontamination
- The whole area of the patient’s hand is ~1% BSA (body surface area)
  - When considering the total area of a burn, DO NOT count first degree burns
- Burns > 10% are only to be dressed with dry simple sterile dressings once the burning process has stopped
  - Hypothermia is a significant concern in these patients

TRANSPORTATION CONSIDERATIONS

- Burns associated with trauma should go to the closest appropriate trauma center
- Consider direct transport to a burn center in discussion with medical control
Eye Injuries
Applies to adult and pediatric patients

**CFR AND ALL PROVIDER LEVELS**

**EMT**
- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- Stabilize (or limit movement of) any object lodged in the eye, and cover both eyes to prevent consensual movement
- If the eye is contaminated, refer to the “Burns” protocol

**KEY POINTS/CONSIDERATIONS**
- Do not put any pressure on the eye when covering with a shield or patch
Musculoskeletal Trauma
Applies to adult and pediatric patients

CFR AND ALL PROVIDER LEVELS

- ABCs and vital signs
- Consider spinal motion restriction
- Refer immediately to the “Bleeding / Hemorrhage Control” protocol, as indicated
- Manually stabilize the extremity above and below the injury
- Evaluate distal pulse, motor, and sensory function
- Expose injured area
- Apply cold packs or ice, as available

EMT

- If the distal extremity is cyanotic, or lacks a pulse, or if a long bone is severely deformed, align the extremity by applying gentle manual traction prior to splinting
- Apply a splint, and reassess the distal pulse, motor, and sensory function
  - Traction splinting may be indicated if there is a mid-thigh injury, and no suspected injury to the pelvis, knee, lower leg, or ankle on the same side (depending on particular device).
  - Traction splint may be used for suspected proximal femur fracture only if manufacturer approved
  - The traction splint may not be applied if the injury is close to the knee, associated with amputation, or near an avulsion with bone separation
- Stabilize the pelvis if the patient has a potential unstable pelvic fracture
- Continue ongoing assessment of vital signs and distal pulse, motor, and sensory function

EMT STOP

KEY POINTS/CONSIDERATIONS

- Consider any open wound near a suspected bone injury site to be the result of bone protrusion
- Physical examination for unstable pelvis fractures is unreliable and stabilization of the pelvis is indicated based on the mechanism of injury
Patella Dislocation
Applies to adult and pediatric patients

Criteria
- For isolated, clinically obvious, medial or lateral dislocation of the patella
- May be described as “knee went out”
- Intraarticular and superior dislocations are not reducible in the prehospital environment

CFR AND ALL PROVIDER LEVELS
- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- Address hemorrhage and other, more serious injuries first (if there are other serious injuries, this protocol does not apply)

CFR STOP

EMT
- Obvious medial or lateral patella dislocation
  - If unsure or if body habitus (e.g. large body build or obesity) precludes accurate assessment, immobilize in position found
  - Gradually extend the knee while, at the same time, a second provider applies pressure on the patella towards the midline of the knee
  - When straight, place the entire knee joint in a knee immobilizer or splint

EMT STOP

KEY POINTS/CONSIDERATIONS
- Some increased pain may occur during reduction
- If there is severe increased pain or resistance, stop and splint in the position found
- Patient usually feel significantly better after reduction, but they still need transport to a hospital for further evaluation and possible treatment
Suspected Spinal Injuries
Applies to adult and pediatric patients

Does the patient meet Adult/Pediatric Major Trauma Criteria with a BLUNT mechanism of injury?

NO

If the patient does not meet Major Trauma Criteria for Blunt Mechanism and/or does for Penetrating Mechanism, does the patient have any of the following:
- Altered mental status – associated with trauma—for any reason including possible intoxication from alcohol or drugs (GCS<15)
- Complaint of neck and/or spine pain or tenderness
- Weakness, tingling or numbness of the trunk or extremities at any time since the injury
- Deformity of the spine not present prior to the incident
- Painful distracting injury or circumstances (i.e. anything producing an unreliable physical exam)
- High risk mechanism of injury associated with unstable spinal injuries that include, but are not limited to:
  - Axial load (i.e. diving injury, spearing tackle)
  - High speed motorized vehicle crashes or roll over
  - Pedestrian or bicyclist struck/collision
  - Falls >3 feet/5 steps or patient’s height

YES

Spine Injury should be suspected and the patient should be placed in a properly fitted cervical collar and spinal movement minimized

NO

Patients without any of the above findings may be transported without the use of a cervical collar or any other means to restrict spinal motion

KEY POINTS/CONSIDERATIONS
- Spinal movement can be minimized by application of a properly fitting rigid cervical collar and securing the patient to the EMS stretcher
- The head of the stretcher should not be elevated by more than 30 degrees
- When spinal motion restriction has been initiated and a higher level of care arrives, patients may be reassessed for spinal injury (per this protocol)
- When possible, the highest level of care on scene will determine if spinal motion restriction is to be used or discontinued (collar removed, etc.)
• A long spine board is one of multiple modalities that can be used to minimize spinal movement. Electing not to use a long spine board will not constitute a deviation from the standard of care.
• Long spine boards do not have a role in transporting patients between facilities
Resources
Advance Directives / DNR / MOLST  
Applies to adult and pediatric patients

Criteria

The following procedure is to be used in determining course of action for all patients

**CFR AND ALL PROVIDER LEVELS**

**EMT**

- For conscious and alert patients, their wishes are to be followed in accordance with standard consent procedures
- For patients unable to consent, including the unconscious, determine the presence of valid MOLST, eMOLST or DNR forms at the scene:
  - Signed “Medical Orders for Life Sustaining Treatment” (MOLST) form
  - Electronically signed eMOLST form
  - Signed New York State approved document, bracelet, or necklace
  - Properly documented nursing home or nonhospital DNR form
- If MOLST, eMOLST, or DNR (document, bracelet, or necklace) is *not present* – begin standard treatment, per protocol
- If MOLST, eMOLST, or DNR (document, bracelet, or necklace) is *present*, and is valid for the patient’s clinical state (e.g. cardiac arrest), follow the orders as written, inclusive of either terminating or not beginning resuscitation
- If advanced directives not mentioned above are present (living will or health care proxy), contact medical control for direction

**MEDICAL CONTROL CONSIDERATIONS**

- Direction regarding wishes expressed via other forms of advanced directives including living wills, health care proxies, and in-hospital do not resuscitate orders

**KEY POINTS/CONSIDERATIONS**

- Any appropriate directive indicated on the MOLST or eMOLST should be honored, including the directive for the patient not to be transported to the hospital
- A MOLST is still valid even if the physician signature has expired
- A copy of the original MOLST is a valid document
- A copy of the DNR, MOLST, or eMOLST form should be attached to the PCR and retained by the agency whenever possible
- Reference DOH Policy Statement 08-07
### APGAR

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</tr>
<tr>
<td><strong>Respirations</strong></td>
<td>0</td>
<td>weak cry</td>
<td>vigorous cry</td>
</tr>
</tbody>
</table>
Automatic Transport Ventilator

This is a general resource document on the use of automatic transport ventilators, not a protocol. It is intended only for those who are separately equipped and trained. This does not supersede device-specific practice guidelines provided through agency education.

GENERAL PARAMETERS

- **FiO₂**: Maintain SaO₂ >=94%
- **PEEP**: 5 cm H₂O (increase up to 10 cm H₂O as needed to improve oxygenation).
- **Mode**: A/C or SIMV
- **Pressure Support**: 5 – 10 cmH₂O, if in SIMV (if available)
- **Volume Control**: Tidal volume (Vt) 6 – 8 mL/kg ideal body weight (maintain plateau pressure [Pplat]< 30 cm H₂O or PIP < 35 cm H₂O)
- **Rate**: Child: 16 – 20 breaths/min; Adult: 12 – 14 breaths/min
- **I-Time**: Child: 0.7 – 0.8 seconds; Adult: 0.8 – 1.2 seconds

Please refer to the manufacturer’s ventilator operation manual for specific directions on how to operate your ventilator.

RECOMMENDED MINIMUM REQUIREMENTS FOR AUTOMATED VENTILATOR

- Pressure limit / safety relief at a maximum of 40 cmH₂O
- Ability to adjust volume to 4-8 mL/kg ideal body weight
- Ability to adjust rate in the minimum range of 10-30 breaths/min
- Ability to add PEEP or PEEP valve in the minimum range of 5 - 10 cmH₂O
- Ability for patient triggered breaths (complete control ventilation is prohibited)

INITIATING MECHANICAL VOLUME VENTILATION

- Use EtCO₂ detection and pulse oximetry to evaluate the effectiveness of the ventilation technique and to verify artificial airway patency and position
- Prepare the BVM device for emergent use in case of a ventilator failure
- Assure a secondary oxygen source with a minimum of 1000psi in a D tank
- Attach a ventilator to appropriate oxygen/air source
- Attach a disposable ventilator circuit to ventilator
- Attach a gas outlet, pressure transducer, and exhalation valve tubes to corresponding connectors
- Select the appropriate mode, if applicable
- Select the appropriate respiratory rate (RR). Titrate to appropriate EtCO₂
  - Adult: 12 – 14 breaths/min
  - Child: 16 – 20 breaths/min
- Select the appropriate tidal volume (Vt) of 6 – 8 mL/kg ideal body weight
- Select the appropriate inspiratory time (It), if applicable
- Select the desired FiO₂ if applicable. An FiO₂ of 1.0 (100% O₂) is a standard start and then should be titrated down to maintain SpO₂>= 94%
• Verify a high pressure alarm no higher than 40 cm H₂O
• Set PEEP to 5 cmH₂O
• Observe the delivery of several breaths
  • Evaluate the patient for adequate chest rise, ETCO₂ and SpO₂
  • Adjust the ventilator settings, as necessary, to improve clinical parameters
• Record all set parameters on the patient transport record
• Monitor and record PIP, if applicable

**KEY POINTS**

• If at any time the ventilator should fail, or an alarm is received that cannot be corrected, the patient should be immediately ventilated with a BVM device attached to a 100% oxygen source.
Child Abuse Reporting

Criteria

- Emergency Medical Technicians (all levels) are required to report cases of suspected child abuse they come across while performing their jobs.
- Document observations, thoroughly and objectively on the patient care report (PCR).
- Notify the emergency department staff of concerns and your intent to report.
- An immediate oral report shall be made to:
  - NYS Child Abuse and Maltreatment Register: 1-800-635-1522
  - This is a hotline number for mandated reporters only, not the public.
- All oral reports must be followed up with a written report within 48 hours, using form DSS-2221-A, “Report of Suspected Child Abuse or Maltreatment”, and sent to the appropriate agency.

KEY POINTS/CONSIDERATIONS

- Notifying hospital staff of concern for child abuse or maltreatment is not sufficient to meet the obligation of reporting. All of these steps are required:
  - PCR completion
  - Notification of emergency department staff
  - Oral report to NYS Child Abuse and Maltreatment Register
  - Written report submitted within 48 hours
- If multiple EMTs are on scene from the same agency, it is only necessary for one EMT (the EMT of record and in charge of patient care) to complete the reporting process.
- If EMTs from multiple agencies are involved in the response, treatment, and transport of the same patient, the EMT of record from each agency must complete the reporting process.
- EMTs are not expected to complete form DSS-2221-A in its entirety, although they should fill out as much as possible, in accordance with available information.
- Mandated reporters who file a report of suspected child abuse or maltreatment in good faith are immune from liability for reporting such a case (§ 419 of the Social Services Law).
### Glasgow Coma Score (GCS)

#### Adult GCS (Score 3-15)

<table>
<thead>
<tr>
<th>Best Eye Response</th>
<th>Best Verbal Response</th>
<th>Best Motor Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous (+4)</td>
<td>Oriented (+5)</td>
<td>Obey commands (+6)</td>
</tr>
<tr>
<td>To verbal command (+3)</td>
<td>Confused (+4)</td>
<td>Localized pain (+5)</td>
</tr>
<tr>
<td>To pain (+2)</td>
<td>Inappropriate words (+3)</td>
<td>Withdrawal from pain (+4)</td>
</tr>
<tr>
<td>No eye opening (+1)</td>
<td>Incomprehensible sounds (+2)</td>
<td>Flexion to pain (+3)</td>
</tr>
<tr>
<td>No verbal response (+1)</td>
<td>Extensor to pain (+2)</td>
<td>No response (+1)</td>
</tr>
</tbody>
</table>

#### Pediatric <~2 y/o GCS (Score 3-15)

<table>
<thead>
<tr>
<th>Best Eye Response</th>
<th>Best Verbal Response</th>
<th>Best Motor Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous (+4)</td>
<td>Coos, babbles (+5)</td>
<td>Moves spontaneously / purposefully (+6)</td>
</tr>
<tr>
<td>To verbal stimuli (+3)</td>
<td>Irritable cries (+4)</td>
<td>Withdraws to touch (+5)</td>
</tr>
<tr>
<td>To pain (+2)</td>
<td>Cries in response to pain (+3)</td>
<td>Withdraws to pain (+4)</td>
</tr>
<tr>
<td>No response (+1)</td>
<td>Moans in response to pain (+2)</td>
<td>Flexor posturing to pain (+3)</td>
</tr>
<tr>
<td>No response (+1)</td>
<td>Extensor posturing to pain (+2)</td>
<td>No response (+1)</td>
</tr>
</tbody>
</table>
Incident Command

The Governor’s Executive Order No. 26 of March 5, 1996, establishes the National Incident Management System (NIMS) as the standard system of command and control for emergency operations in New York State. The Incident Command System (ICS) does not define who is in charge, but rather defines an operational framework to manage many types of emergency situations.

One essential component of ICS is Unified Command. Unified Command is used to manage situations involving multiple jurisdictions, multiple agencies, or multiple situations. The specific issues of direction, provision of patient care, and the associated communication among responders must be integrated into each single or unified command structure and assigned to the appropriately trained personnel to carry out.
Needlestick / Infectious Exposure

Criteria

- This resource outlines the immediate actions to be taken following any percutaneous, non-intact skin, or mucous membrane contact with blood or body secretions

CLEANSING FOR A PUNCTURE WOUND

- Immediately cleanse with Betadine or chlorhexidine
- Follow-up by soaking the site for five minutes in a solution of Betadine and sterile water

CLEANSING FOR SKIN CONTACT

- Wash the area with soap and water then clean the area with Betadine or chlorhexidine

CLEANSING FOR MUCOUS MEMBRANES

- If in the mouth, rinse mouth out with a large volume of tap water
- If in the eyes, flush with water from an eyewash station. If an eyewash station is not available, use tap water

KEY POINTS/CONSIDERATIONS

- Thoroughly cleanse the area of exposure
- Decontamination may be limited because of the lack of available resources
- Report the exposure to a supervisor, immediately
- Seek immediate medical attention and post-exposure evaluation at the hospital the source patient was transported to, if possible
**Normal Vital Signs for Infants / Children**

<table>
<thead>
<tr>
<th>Age</th>
<th>Respirations</th>
<th>Pulse</th>
<th>Systolic BP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newborn (&lt;28 days)</td>
<td>30 – 60</td>
<td>100 – 180</td>
<td>&gt;60</td>
</tr>
<tr>
<td>Infant (&lt; 1 year)</td>
<td>30 – 60</td>
<td>100 – 160</td>
<td>&gt;60</td>
</tr>
<tr>
<td>Toddler (1 – 3 yrs)</td>
<td>24 – 40</td>
<td>90 – 150</td>
<td>&gt;70</td>
</tr>
<tr>
<td>Preschooler (3 – 5 yrs)</td>
<td>22 – 34</td>
<td>80 – 140</td>
<td>&gt;75</td>
</tr>
<tr>
<td>School-aged (6 – 8 yrs)</td>
<td>18 – 30</td>
<td>70 – 120</td>
<td>&gt;80</td>
</tr>
</tbody>
</table>

From: American Academy of Pediatrics, Pediatric Education for Prehospital Professionals


**Oxygen Administration**

 Applies to adult and pediatric patients

**CFR AND ALL PROVIDER LEVELS**

- Ongoing assessment of the effectiveness of breathing
  - Refer to the “Respiratory Arrest / Failure” or “Respiratory Arrest / Failure - Pediatric” protocol, if necessary
- Oxygen therapy via non-rebreather mask (NRB) 10-15 LPM, or nasal cannula (NC) 2-6 LPM, to maintain oxygen saturation if saturation is < 94% or to effectively manage other signs of dyspnea
  - Some children with cardiac conditions may have baseline oxygen saturations between 65 and 85% rather than above 94% (ask care provider about patient’s usual oxygen saturation level)
  - Infant oxygen administration, if needed, should be provided at 0.5-2 LPM via appropriately sized nasal cannula
- Any patient with suspected carbon monoxide poisoning should receive high flow oxygen via non-rebreather mask (NRB), see also “Carbon Monoxide Exposure – Suspected” protocol
- Oxygen therapy using bag-valve mask (BVM) 15-25 LPM
- Appropriate BLS airway adjuncts
- BVM-assisted ventilation

**EMT STOP**

- Oxygen powered nebulizer devices for use in accordance with manufacturer specifications (typically ~6-8 LPM)
- Continuous positive airway pressure (CPAP) 5-10 cm H₂O*
  - For the adult patient
  - For older pediatric patients consider CPAP for EMT, as equipment size allows if available and trained
- Portable automated transport ventilators (ATV)*

**KEY POINTS/CONSIDERATIONS**

- *If equipped and trained
- Blow-by oxygen administration may be required in some cases
- Oxygen should be titrated to maintain saturation at or just above 94% and/or to treat signs of dyspnea. If there is a situation in which the patient may be unstable and hypoxia might be missed (such as major trauma), it is acceptable to place the patient on high flow oxygen
Pediatric Assessment Triangle

**General Impression**
(first view of patient)

**A**  Airway and Appearance
(Open/Clear – Muscle Tone/Body Position)

ABNORMAL
Abnormal or absent cry or speech
Decreased response to parents or environmental stimuli
Floppy or rigid muscle tone or not moving
Normal
Normal cry or speech
Responds to parents or to environmental stimuli such as lights, keys, or toys
Good muscle tone and moves extremities well

**B**  Work of Breathing
(Visible Movement / Respiratory Effort)

ABNORMAL
Increased/excessive (nasal flaring, retractions or abdominal muscle use) or decreased/absent respiratory effort or noisy breathing
Normal
Breathing appears regular without excessive respiratory muscle effort or audible respiratory sounds

**C**  Circulation to Skin
(Color / Obvious Bleeding)

ABNORMAL
Cyanosis, mottling, paleness/pallor or obvious significant bleeding
Normal
Color appears normal. No significant bleeding
Prescribed Medication Assistance

Applies to adult and pediatric patients

Criteria

- This protocol is intended to provide assistance to patients or caregivers of patients who require help with emergency medication that they, or people in their care, are prescribed

CFR AND ALL PROVIDER LEVELS

EMT

- Sublingual nitroglycerin for patients with chest pain
- Inhalers (albuterol* or other beta-agonists) for patients with asthma or COPD
- Rectal diazepam (Diastat) for children or adults with seizures or special needs
- Epinephrine autoinjectors for treatment of anaphylaxis
- Naloxone (Narcan®) via autoinjector or intranasal device

CFR AND EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Approval of assisted medication administration within the scope of practice for administration route of an CFR or EMT as needed

KEY POINTS/CONSIDERATIONS

- This protocol is designed to assure that the EMS provider and medical control provider are best prepared to assist patients with ongoing disease processes that are not covered by these protocols, and who have already been given therapy by their prescribers.
- *Common brand names for albuterol include Ventolin®, Proventil®, and ProAir®
  - Levalbuterol (Xopenex) is a beta agonist and, therefore, a levalbuterol inhaler may be utilized in this protocol
  - A combination inhaler that contains albuterol & ipratropium (Atrovent®), such as Combivent®, that is prescribed to the patient may be substituted for an albuterol inhaler in this protocol
Refusal of Medical Attention

Applies to adult and pediatric patients

Criteria

- To be utilized when a person with an actual or potential injury or other medical problem is encountered by EMS personnel
- In the absence of a demonstrated and documented impairment, adults and parents of children have a right to refuse treatment for themselves and their minor children
- Providers have the responsibility to provide informed consent for the refusal
- Agency and regional policies and procedures supersede these minimum protocols
- Medical control should be contacted for transport refusals of patients with an Apparent Life Threatening Event (ALTE) / Brief Resolved Unexplained Events (BRUE) – see protocol
- Patients with the following should be considered “high risk” – consider medical control
  - Age greater than 65 years or less than 2 months
  - Pulse >120 or <50
  - Systolic blood pressure >200 or <90
  - Respirations >29 or <10
  - Serious chief complaint (including, but not limited to, chest pain, shortness of breath, syncope, and focal neurologic deficit)
  - Significant mechanism of injury or high index of suspicion
  - Fever in a newborn or infant under 8 weeks old

CFR AND ALL PROVIDER LEVELS

- May cancel an ambulance only when there is no indication of a potential illness or injury
- A CFR may not initiate a refusal of care when there is a person who appears to have an injury or illness

**CFR STOP**

EMT

Patients who have the medical decision-making capacity (ability to understand the nature and consequences of their medical care decision) and wish to refuse care/transport may do so after the provider has:

- Determined the patient exhibits the ability to understand the nature and consequences of refusing care/transport (See below)
- Offered transport to a hospital
- Explained the risks of refusing care/transport
- Explained that by refusing care/transport, the possibility of serious illness, permanent disability, and death may increase
- Advised the patient to seek medical attention and gave instructions for follow-up care
- Confirmed that the patient understood these directions
- Left the patient in the care of a responsible adult (when possible)
• Advised the patient to call again with any return of symptoms or if he or she wishes to be transported

EMT STOP

MEDICAL CONTROL CONSIDERATIONS

• Assistance with high risk, difficult, or unclear situations

KEY POINTS/CONSIDERATIONS

The evaluation of any patient refusing medical treatment or transport should include the following:

• Visual Assessment – To include responsiveness, level of consciousness, orientation, obvious injuries, respiratory status, and gait
• Initial Assessment – Airway, breathing, circulation, and disability
• Vital Signs – (If patient allows) pulse, blood pressure, and respiratory rate and effort; pulse oximetry and/or blood glucose, when clinically indicated
• Focused Exam – As dictated by the patient’s complaint (if any)

Medical decision making capacity determination – As defined below

• Patients at the scene of an emergency who demonstrate the ability to understand the nature and consequences of their medical care decisions shall be allowed to make decisions regarding their medical care, including refusal of evaluation, treatment, or transport
• A patient, who is evaluated and found to have any one of the following conditions shall be considered incapable of making medical decisions regarding care and/or transport and should be transported to the closest appropriate medical facility under implied consent:
  • Altered mental status from any cause
  • Age less than 18 unless an emancipated minor or with legal guardian consent
  • Attempted suicide, danger to self or other, or verbalizing suicidal intent
  • Acting in an irrational manner, to the extent that a reasonable person would believe that the capacity to make medical decisions is impaired
  • Unable to verbalize (or otherwise adequately demonstrate) an understanding of the illness and/or risks of refusing care
  • Unable to verbalize (or otherwise adequately demonstrate) rational reasons for refusing care despite the risks
  • No legal guardian available (in person or by telephone) to determine transport decisions
• Patient consent in these circumstances is implied, meaning that a reasonable and medically capable adult would allow appropriate medical treatment and transport under similar conditions
• Law enforcement should be considered, if needed, to facilitate safe management of patients who lack capacity and require involuntary transport
  • Capacity is a clinical decision, therefore, it is not necessary for law enforcement to place a patient in their “protective custody” in order to safely manage those whom lack capacity and require transportation for further evaluation and treatment
Responsibilities of Patient Care

The provision of patient care is a responsibility given to certified individuals who have completed a medical training and evaluation program specified by the NYS Public Health or Education Laws and subject to regional and State regulations or policy. Prehospital providers are required to practice to the standards of the certifying agency (DOH) and the medical protocols authorized by the local REMAC.

Patient care takes place in many settings, some of which are hazardous or dangerous. The equipment and techniques used in these situations are the responsibility of locally designated, specially trained, and qualified personnel. Emergency incident scenes may be under the control of designated incident commanders who are not emergency medical care providers. These individuals are generally responsible for scene administration, safe entry to a scene, or decontamination of patients or responders.

Pursuant to the provisions of Public Health Law, the individual having the highest level of prehospital medical certification, and who is responding with authority (duty to act) is responsible for providing and/or directing the emergency medical care and the transportation of a patient. Such care and direction shall be in accordance with all NYS standards of training, applicable state and regional protocols, and may be provided under medical control.
**Transfer of Patient Care**

**Criteria**

- Providers are responsible for the patient while in their care. Transferring or receiving providers will not be responsible for his or her counterpart’s actions.
- Patients may be transferred to a provider with the same or higher level of certification.
- Patients may be transferred to a provider with a lower level of certification provided the patient is not anticipated to require higher-level care and the lower level provider has formally accepted the transfer of care.

**CFR AND ALL PROVIDER LEVELS**

**EMT**

When transferring patients, both the receiving and transferring providers should:

- Ensure that all patient information is transferred to the receiving provider, such as chief complaint, past medical history, current history, vital signs, and care given prior to the transfer of care.
- Assist the receiving provider until they are ready to assume patient care.
- Be willing to accompany the receiving provider to the hospital, if the patient’s condition warrants or if the receiving provider requests it, as resources allow.

All personnel and agencies must comply with NYSDOH BEMS policy statement 12-02 (or updated version) regarding documentation:

- Both providers will complete a Patient Care Report (PCR), as appropriate, detailing the care given to the patient while in their care.
- The receiving provider must briefly document care given prior to receiving the patient.
- Providers within the same agency may utilize the same PCR (as technology and agency/regional/state policy allow).

**MEDICAL CONTROL CONSIDERATIONS**

- Resolution of any disagreements between transferring and transporting providers.

**KEY POINTS/CONSIDERATIONS**

- Any disparity between the providers must be resolved by on-line medical control or the provider of higher certification must transport with the patient.
- In situations involving multiple patients or mass casualty incidents, EMS providers may field-triage patients to care and transportation by EMS providers of lower level of certification as resources allow.
- A standardized process of transfer of care may be implemented by regional systems.