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of Health**

**Bureau of
Emergency Medical Services
and Trauma Systems**

Statewide Basic Life Support Adult and Pediatric Treatment Protocols

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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.

Bullets are used throughout this document. Many processes are not sequential and tasks should be performed as most appropriate for patient care.

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
- These are also standing orders for all levels of credential above EMT

 **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 to indicate interventions that may be performed if an agency or region chooses to implement these variations. These are not required.

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**

We have one new protocol, Behavioral: Agitated Patient – Adolescent, that provides guidance for an individual in the transitional stage of physical and psychological development between puberty and adulthood. The was developed since neither the adult or pediatric protocol may provide sufficient direction in the care of these socially and medically complex patients, and our hope is that this protocol can assist. Please note the section on De-escalation techniques included in the Resources section.

Acknowledgements

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

The BLS Protocols Advisory and Writing Group.

NYSDOH Bureau of EMS staff.

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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. 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. 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

Identify and treat apparent life-threats *including massive hemorrhage*

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 (OPA, NPA, suction) necessary?

Breathing

- Apply oxygen and/or positive pressure ventilations, as indicated
- See “Resources: 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 immediately upon discovery
- 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
 - Respirations 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 “Resources: 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 ECGs, paperwork from facilities, medications, or belongings
- Submit written documentation prior to leaving the emergency department in accordance with state, regional and agency policy
- 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 involves 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 facility

Transport to the closest appropriate receiving facility in accordance with regional facility destination policies for travel time, facility capabilities, and NY State designation

- The closest appropriate facility may not be the nearest facility even for patients in extremis such as those in cardiac or respiratory arrest
- Patient preference may influence the determination of the appropriate receiving hospital

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 facility in accordance with regional policy. Ensure early notification for serious trauma, STEMI, stroke, and sepsis

MEDICAL CONTROL CONSIDERATIONS

- Medical control may assist with questions regarding patient care or if there are complex medical conditions requiring additional guidance
- 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 “Resources: Refusal of Medical Attention” protocol, as well as agency and regional policy

General Approach to Safety Restraining 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 or 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 or 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 and 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 "Resources: Refusal of Medical Attention" protocol, as well as agency and regional policy

Extremis/Cardiac Arrest Protocols

Cardiac Arrest

For pediatric, see “Cardiac Arrest – Pediatric”

CRITERIA

- For patients who are unresponsive without signs of life
- For patients that do not meet the criteria of “Extremis: Obvious Death” protocol or otherwise excluded by a DNR/MOLST order, see also “Resources: Advance Directives/MOLST/DNR” protocol

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 resources allow
 - 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 cycles before doing a pulse check, or until the patient no longer appears to be in cardiac arrest



CFR STOP

EMT

- After 20 minutes without achieving ROSC, consider calling medical control for: termination of resuscitation, continuing efforts, or transportation in extenuating circumstances



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 interrupt compressions for placement of an advanced airway
- Minimize interruption in compressions for 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)
- Artifact from vibrations in a moving ambulance may compromise the effectiveness of the AED
- Compressions in moving ambulances pose a significant danger to providers, are less effective, and should be avoided
 - Consider mechanical CPR devices when available for provider safety if there is a need to do compressions in moving ambulances (e.g. AutoPulse®, LUCAS®, LifeStat®, or other FDA approved device)

Cardiac Arrest – Pediatric

CRITERIA

- For patients who are unresponsive without signs of life
- For patients that do not meet the criteria of “Extremis: Obvious Death” protocol or otherwise excluded by a DNR/MOLST order, see also “Resources: Advance Directives/MOLST/DNR” protocol

CFR AND ALL PROVIDER LEVELS

EMT

- 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 resources allow
 - 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 AND 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
- If a patient has a medication patch, it may be removed (use appropriate PPE)
- Artifact from vibrations in a moving ambulance may compromise the effectiveness of the AED
- Consider calling medical control for termination of resuscitation or initiation of transport after 20 minutes of CPR
- Compressions in moving ambulances pose a significant danger to providers, are less effective and should be avoided
 - If appropriate for the patient's size, consider mechanical CPR devices when available for provider safety if there is a need to do compressions in moving ambulances (e.g. AutoPulse®, LUCAS®, LifeStat®, or other FDA approved device)
 - Note: The use of a particular mechanical CPR device may be contraindicated in the pediatric patient; refer to manufacturer's recommendation

Cardiac Arrest – Adult: Return of Spontaneous Circulation (ROSC)

CFR AND ALL PROVIDER LEVELS

EMT

- CPR Airway management and appropriate oxygen therapy



CFR AND 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

- Patients who are in recurrent cardiac arrest should be transported to the closest appropriate hospital unless otherwise authorized by medical control
- Documentation must include pupil exam, and initial GCS recorded by element (Eyes/4, Verbal/5, Motor/6), not as a total

Foreign Body Obstructed Airway

For pediatric, see “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 “Resources: Oxygen Administration” protocol
- 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, refer to “Extremis: Cardiac Arrest” protocol



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 “Resources: Oxygen Administration” protocol
 - 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 “Extremis: Cardiac Arrest - Pediatric” protocol



CFR AND EMT STOP

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

For pediatric, see “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 “Extremis: 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
- Ventilate every 5-6 seconds (adult patient)
- 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 “Extremis: Cardiac Arrest” protocol)
- Adequate ventilation *may* require disabling the pop-off valve if 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 “Extremis: 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 $\geq 92\%$
 - See also, “Resources: Oxygen Administration” protocol.



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 “Extremis: 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 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

- See also “Resources: Advance Directives/DNR/MOLST” protocol, as indicated
- If the above criteria can be determined by BLS assessment, ALS is not required for the determination of obvious death

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 “Extremis: Respiratory Arrest/Failure” or “Extremis: 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 and 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 “Resources: Refusal of Medical Attention” protocol if the caregiver wishes to refuse transportation.

Anaphylaxis

For pediatric, see “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 “Extremis: 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 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 Syringe Epinephrine for EMT may be substituted for an autoinjector
- 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

- If epinephrine is administered by crew or patient self-administered epinephrine, regional procedure may require consulting medical control prior to honoring a request for refusal of medical care
- 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 “Extremis: 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 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 Syringe Epinephrine for EMT, utilizing the appropriate dose above, may be substituted for an autoinjector
- 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
- If epinephrine is administered by crew or patient self-administered epinephrine, regional procedure may require consulting medical control prior to honoring a request for refusal of medical care

- 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: Agitated Patient – Adolescent

Applies to adolescent patients only

Criteria

- This protocol is intended to be utilized to help outline the approach to an individual in the transitional stage of physical and psychological development between puberty and adulthood in instances in which the adult or pediatric protocol may not provide sufficient guidance
- This protocol is intended to be used to assist in safe provision of care with agitated adolescent patients requiring medical evaluation, treatment, and transportation
- This may include any patient who demonstrates potentially violent behavior, regardless of underlying etiology
- This protocol includes consideration for patients who are extremely combative and are at immediate risk of causing physical harm to emergency responders, the public, and/or themselves
- Pharmacologic management of behavioral emergencies is only to be utilized for situations in which environmental modification and verbal de-escalation (utilizing interpersonal communication skills) is not successful or not possible
- See Resources: De-escalation Techniques

CFR AND ALL PROVIDER LEVELS

EMT

- 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
- Check blood glucose level, if equipped, as soon as you are able to safely do so. If low, refer to the “General Altered Mental Status/Hypoglycemia” protocol, as indicated.



CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

- Patient must NOT be transported in a face-down position
- Assess the scene for safety and, if it is not, retreat to a safe location and obtain police assistance
- Consider medical causes of abnormal behavior such as: hypoxia, hypoperfusion, hypoglycemia, head injury, intoxication, other drug ingestion, and traumatic
- Consider the possibility of a behavioral/developmental disorder such as autism spectrum disorder or mental health problems
- If the agitated patient goes into cardiac arrest, refer to the appropriate protocol, and consider the possibility of acidosis in that protocol
- A team approach should be attempted at all times 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. EMS must have the ability to immediately remove any mechanical restraints that hinder patient care at all times

- All uses of this protocol may require Agency Medical Director review or regional QA, depending on regional procedure

Behavioral: Agitated Patient – Adult

For pediatric and adolescent patients see, “Behavioral: Agitated Patient – Pediatric” or “Behavioral: Agitated Patient – Adolescent”

Criteria

- This may include any patient who demonstrates potentially violent behavior, regardless of underlying etiology
- This protocol includes consideration for patients who are extremely combative and are at immediate risk of causing physical harm to emergency responders, the public, and/or themselves

CFR AND ALL PROVIDER LEVELS

EMT

- 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
- Check blood glucose level, if equipped as soon as you are able to safely do so. If low, refer to the “General Altered Mental Status/Hypoglycemia” protocol, as indicated.



CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

- **Patient must NOT be transported in a face-down position**
- Assess the scene for safety and, if it is not, retreat to a safe location and obtain police assistance
- Consider medical causes of abnormal behavior such as: hypoxia, hypoperfusion, hypoglycemia, head injury, intoxication, other drug ingestion, and traumatic
- Consider the possibility of a behavioral/developmental disorder such as autism spectrum disorder or mental health problems
- If the agitated patient goes into cardiac arrest, refer to the appropriate protocol, and consider the possibility of acidosis in that protocol
- A team approach should be attempted at all times 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. EMS must have the ability to immediately remove any mechanical restraints that hinder patient care at all times
- All uses of this protocol may require Agency Medical Director review or regional QA, depending on regional procedure

Behavioral: Agitated Patient – Pediatric

Criteria

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

CFR AND ALL PROVIDER LEVELS

EMT

- 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



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
- **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 carbon monoxide (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)



CFR STOP

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 facility.

ASYMPTOMATIC potentially exposed people:

- An asymptomatic patient with a known CO level >25% should receive high flow oxygen and be transported to the
- 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 facility.
 - Strongly encourage transport if CO levels are not decreasing

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)
 - For the adult patient
 - For older pediatric patients consider CPAP, as equipment size allows if available and trained

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 contacting medical control to discuss appropriate facility destination for patients with the following:

- SpCO reading >25%
- Loss of consciousness
- Significant altered mental status or an abnormal neurologic exam
- Pregnancy
- 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

For pediatric, see “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 STEMI, confirmed by medical control, begin transport to a facility capable of primary angioplasty if estimated arrival to that facility is within 90 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 (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 92% (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 or 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



CFR STOP

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



EMT STOP

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 facility ASAP and state whether 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 pulse, 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 facility should not be delayed in ill pediatric cardiac patients

- | | | | |
|-------------------------|------------------|------------------|--------------------------|
| | < 1 mo | < 1 yr | 1 – 10 yr |
| • Systolic Hypotension: | < 60 | < 70 | (< 70 + 2 x age OR < 90) |

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
 - Maintain firm grasp on infant



CFR STOP

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



EMT STOP

KEY POINTS/CONSIDERATIONS

- 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 facility 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 facility as soon as possible

Difficulty Breathing: Asthma/Wheezing

For pediatric, see “Difficulty Breathing: Asthma/Wheezing – Pediatric” or “Difficulty Breathing: Stridor – Pediatric”

CRITERIA

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

CFR AND ALL PROVIDER LEVELS

- Assess for foreign body airway obstruction
 - Refer immediately to the “Extremis: Foreign Body Obstructed Airway” protocol, if indicated
- Ongoing assessment of the effectiveness of breathing
 - Refer to the “Extremis: Respiratory Arrest/Failure” protocol, if necessary
- Administer supplemental oxygen; refer to the “Resources: Oxygen Administration” protocol
- Assist patient with his or her own medications as appropriate, see “Resources: Prescribed Medication Assistance” protocol
- Facilitate transportation, ongoing assessment, and supportive care



CFR STOP

EMT

- If patient is wheezing:
 - Administer albuterol 2.5 mg in 3 mL (unit dose) via nebulizer*
 - Oxygen powered nebulizer devices for use in accordance with manufacturer specifications (typically ~6-8 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



EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Additional albuterol
- Epinephrine for critical asthma attack* (EMT Syringe Epinephrine or autoinjector)

KEY POINTS/CONSIDERATIONS

- Wheezing does not always indicate asthma. Consider allergic reaction, airway obstruction, and pulmonary edema
- 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, wheezing 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 “Extremis: Pediatric Foreign Body Obstructed Airway” protocol, if indicated
- Ongoing assessment of the effectiveness of breathing
 - Refer to the “Extremis: 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 “Resources: Oxygen Administration” protocol
- Assist patient with their own asthma medications (see “Resources: Prescribed Medication Assistance” protocol), as appropriate
- Facilitate transportation, ongoing assessment, and supportive care



CFR STOP

EMT

- 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



EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Additional albuterol
- Epinephrine for critical asthma attack* (EMT Syringe Epinephrine kits or autoinjector)

KEY POINTS/CONSIDERATIONS

- Absence of breath sounds can be indicative of status asthmaticus. Be prepared for respiratory arrest.
- 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. Bronchiolitis may not respond to albuterol. Gentle nasal suctioning is the primary treatment along with oxygen, particularly in infants.

- 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 “Extremis: 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 “Extremis: Respiratory Arrest/Failure – Pediatric” protocol, if necessary
- Administer supplemental oxygen; refer to the “Resources: 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 problem (physiologic or mechanical 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



CFR STOP

EMT

- Rewarm the extremity (if the means to do so are available) only if anticipated time to the facility 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

Epistaxis

CFR AND ALL PROVIDER LEVELS

EMT

- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- Unless other patient care precludes, position the patient upright with head leaning forwards. Pinch the nose at the highest area of soft-tissue for at least 20 minutes. DO NOT RELEASE TO RE-EVALUATE during that time
- Have patient spit out any blood in the oropharynx
- Patient may be instructed on the personal use of suction for the oropharynx if able to assist



CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

- If epistaxis is associated with trauma, then appropriate management of airway with cervical spine considerations must take precedent for positioning and care

Fever – Adult

For pediatric see, “Fever – Pediatric”

CRITERIA

- Adult patient with the following:
 - Temperature > 100.4°F (38°C) – **OR** –
 - Temperature ≥ 2°F (1°C) over baseline
 - – **AND** –
 - Suspected infection – **OR** –
 - Recipient of a blood / blood product transfusion
- Patient has not had a total dose of >650 mg of acetaminophen (either acetaminophen or an acetaminophen containing product) or > 400 mg of ibuprofen within the last 4 hours

EMT

- ABCs and vital signs, to include SpO₂ and temperature*
- Airway management and appropriate oxygen therapy



EMT STOP

KEY POINTS/CONSIDERATIONS

- * If equipped and trained
- Administer oxygen therapy utilizing appropriate delivery device and titration to maintain SPO₂ > 92%
- If fever is due to suspected viral or bacterial infection, refer to protocol “General: Severe Sepsis / Septic Shock” protocol and treat as indicated

Fever – Pediatric

CRITERIA

- Pediatric patient with the following:
 - Temperature > 100.4°F (38°C) – **OR** –
 - Temperature ≥ 2°F (1°C) over baseline
 - – **AND** –
 - Suspected infection – **OR** –
 - Recipient of a blood / blood product transfusion
- Patient has not had a dose of acetaminophen (either acetaminophen or an acetaminophen containing product) or ibuprofen within the last 4 hours

EMT

- ABCs and vital signs, to include SpO₂ and temperature*
- Airway management and appropriate oxygen therapy
- Check blood glucose level, if equipped. If abnormal, refer to the “General: hyperglycemia – Pediatric” or “General: Hypoglycemia – Pediatric” protocol, and treat as indicated.



EMT STOP

KEY POINTS/CONSIDERATIONS

- * If equipped and trained
- Administer oxygen therapy utilizing appropriate delivery device and titration to maintain SPO₂ > 92%
- If fever is due to suspected viral or bacterial infection, refer to protocol “General: Severe Sepsis / Septic Shock” protocol and treat as indicated

Hyperglycemia – Adult

For pediatric see, “Hyperglycemia – Pediatric”

CFR AND ALL PROVIDER LEVELS

EMT

- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- Check blood glucose level, if equipped
- Call for ALS intercept, if patient has altered mental status
- If blood glucose is CONFIRMED by glucometer to be high, do not administer oral glucose



CFR AND EMT STOP

Hyperglycemia – Pediatric

CFR AND ALL PROVIDER LEVELS

EMT

- Airway management and appropriate oxygen therapy
- Check blood glucose level, if equipped and trained



CFR AND EMT STOP

Hypoglycemia – Adult

For pediatric see, “Hypoglycemia – Pediatric”

CRITERIA

- For patients with known or suspected hypoglycemia
- See also, "General: Altered Mental Status" protocol, as required

CFR AND ALL PROVIDER LEVELS

EMT

- Airway management and appropriate oxygen therapy
- Check pupils and, if constricted, consider “General: 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 use 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 “Extremis: Respiratory Arrest / Failure – Adult” 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
- If the patient wishes to refuse transportation to a hospital and you have administered any medications, including oral glucose, regional procedure may require you to contact medical control prior to leaving the patient or completing the refusal of care, particularly if you know or suspect the patient may be on oral glycemic medications, or for any other worrisome concerns. Patient should be instructed to eat a meal if they are refusing transport because simple sugars are quickly metabolized.

Hypoglycemia – Pediatric

CRITERIA

- For pediatric patients with known or suspected hypoglycemia
- See also, "General: Altered Mental Status" protocol, as required

CFR AND ALL PROVIDER LEVELS

EMT

- Airway management and appropriate oxygen therapy
- Check pupils and, if constricted, consider "General: 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 use 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 "Extremis: Respiratory Arrest / Failure – Adult" protocol, if necessary



CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

- If the patient's parent or guardian wishes to refuse medical care for the patient, and you have administered any medications, including oral glucose, regional procedure may require consultation with medical control prior to completing the refusal

Nausea and/or Vomiting – Adult

For pediatric see, “Nausea and/or Vomiting (> 2 y/0) – Pediatric”

CFR AND ALL PROVIDER LEVELS

EMT

- ABCs, vital signs
- Airway management and appropriate oxygen therapy



CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

- This protocol is intended for the prevention and treatment of nausea and/or vomiting
- Patients may be given an isopropyl alcohol pad for self-administered inhalation

Nausea and/or Vomiting – Pediatric

CFR AND ALL PROVIDER LEVELS

EMT

- ABCs, vital signs
- Airway management and appropriate oxygen therapy



CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

- This protocol does not apply to patients under the age of two years

Opioid (Narcotic) Overdose

Applies to adult and pediatric patients

CRITERIA

- ***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**

CFR AND ALL PROVIDER LEVELS

EMT

- ABCs, vital signs
- Airway management and appropriate oxygen therapy
- Check blood glucose level, if equipped
 - Refer to the “General: Altered Mental Status” protocol, as indicated
- Determine what and how much was taken, along with the time, if possible
- For suspected opioid overdose **and** hypoventilation* or respiratory arrest, administer naloxone (Narcan®) 2 mg** intranasal; 1 mg per nostril, may repeat once in 5 minutes, if no significant improvement occurs
 - In the pediatric patient, administer naloxone (Narcan®) 1 mg** intranasal, ½ mg per nostril, may repeat once in 5 minutes, if no significant improvement occurs



CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

- **May substitute alternative FDA and SEMAC approved, commercially prepared 4mg nasal spray unit dose device
 - This device is approved for the full 4 mg dose in the adult or pediatric patient
 - Administer 4mg in 1 nostril as a single spray
- BLS providers should be aware that ALS providers may titrate the naloxone (Narcan®) dose to attain adequate spontaneous ventilation
- If high suspicion of opioid overdose, providers may administer naloxone (Narcan®) prior to checking a blood glucose level
- Do NOT give naloxone (Narcan®) to any intubated patient without a medical control order unless they are in cardiac arrest

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 “Trauma: 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 "Extremis: Respiratory Arrest/Failure" or "Extremis: Respiratory Arrest/Failure – Pediatric" protocol, if necessary



CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

- Seizures secondary to eclampsia in pregnancy occur because of a different mechanism than typical epileptic seizures
 - Pre-eclampsia is typically described as BP > 140/90 mmHg with severe headache, confusion, and/or hyperreflexia in a pregnant patient, or in one who has given birth within the past month
 - Pre-eclampsia may progress to eclampsia
- Protect the patient and EMS crew from injury during seizure
- Patients may become confused and combative after a seizure (in the 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
- Any EMS provider may assist the patient's family or caregivers with the administration of rectal diazepam (Valium/Diastat), if available. (Resources: Prescribed Medication Assistance)

Shock – Adult: Shock / Hypoperfusion

For pediatric see, “Sepsis/Septic Shock – Pediatric”

For trauma see, “Shock – Adult: Trauma Associated Shock”

CFR AND ALL PROVIDER LEVELS

EMT

- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- Administer supplemental oxygen; refer to the “Resource: Oxygen Administration” protocol
- Facilitate transportation, ongoing assessment, and supportive care
- Check a blood glucose level, if equipped.
 - If abnormal, refer to the “General: Hypoglycemia – Adult” protocol



CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

- Hypoperfusion is defined as SBP < 100 mmHg, MAP < 65 mmHg with decreased level of consciousness.
- Vitals should be frequently assessed during transport to avoid unnecessary prehospital overhydration
- Consider potential causes of hypoperfusion: anaphylaxis, toxic ingestions, cardiac rhythm disturbances, myocardial infarction, sepsis, ectopic pregnancy, ruptured abdominal aortic aneurysm, adrenal crisis, or others

Sepsis/Septic Shock

For pediatric, see “Sepsis/Septic Shock – Pediatric”

Criteria

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

1. Suspected infection
2. Hypotension (systolic BP < 90 mmHg) **OR** altered mental status
3. 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 facility 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 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

Shock – Adult: Trauma Associated Shock

For pediatric, see “Sepsis/Septic Shock – Pediatric”

CFR AND ALL PROVIDER LEVELS

EMT

- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- Position the patient in a supine position, if possible (e.g. no evidence of pulmonary edema)



CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

COMPENSATED SHOCK in trauma is defined as significant mechanism of injury AND tachypnea, tachycardia, pallor, or restlessness, AND Systolic BP \geq 100 mmHg, MAP \geq 65 mmHg

DECOMPENSATED SHOCK is defined as clinical picture of shock AND systolic BP $<$ 100 mmHg, MAP $<$ 65 mmHg

- A falling BP is a LATE sign of shock
- Contact the receiving hospital early with a “trauma alert” call, giving a brief description of the mechanism of injury, status of the patient, and estimated time of arrival

Sepsis/Septic Shock – Pediatric

CRITERIA

Pediatric patients with suspected infection who are abnormally hot or cold to touch, and/or have a fever over 100.4° F (38° C), or less than 96.8° F (36° C) 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 age-dependent hypotension) *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 facility **forthwith** 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:

	<u>< 1 mo.</u>	<u>< 1 yr</u>	<u>1 yr-11 yr</u>	<u>>11 yr</u>
○ Tachycardia	>180	>180	> 140	>110
○ Tachypnea	> 60	> 40	> 30	>20
○ Hypotension*	< 60	< 70	(< 70 + 2 x age)	< 90
- *Blood pressures may be very difficult to obtain in infants – assure the respiratory rate and pulse are measured accurately
- Communication with the destination facility is critical so that they can prepare to treat the child aggressively

Stroke

Applies to adult and pediatric patients

CRITERIA

- 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**”)



CFR STOP

EMT

- Perform a neurological exam, including **Cincinnati Stroke Scale** and other regionally approved and indicated 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 facility ASAP
- Do not delay transport



EMT STOP

KEY POINTS/CONSIDERATIONS

- Make sure to collect family or witness contact information to assist with facility care
- Make sure to record **Last Known Well** and who reported that information as part of your verbal report at the facility 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
 - Breathing tube in neck
 - Central venous catheters (tunneled catheter, Broviac catheter, Mediport, PICC)
 - Catheters that enter a large (central) vein
 - CSF shunt (e.g. ventriculoperitoneal or V-P shunt)
 - Internal tube that drains spinal fluid from the brain into the abdomen
 - Gastrostomy (PEG tube, MIC-KEY® “button”) or J-tube
 - Feeding tube that goes through the abdominal wall
 - Colostomy or ileostomy
 - Bowel connected through abdominal wall for collection of waste in a bag
 - Ureterostomy or nephrostomy tube
 - Connection of the urinary system through the abdominal wall or through the back for collection of urine in a bag
 - Foley catheter
 - Catheter in urethra to collect urine from the bladder into a bag

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 (pinch off) 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 facility 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 facility 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 facility with the patient, if possible

Total Artificial Heart (TAH)

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 facility that your patient has a TAH while on scene or promptly after initiation of transport *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



CFR AND EMT STOP

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 ECG 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 (listen with a stethoscope) over the precordial/epigastric (heart/upper stomach) 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 3[®] 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 [eg: 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 promptly 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:

	Heartmate II [®]	Heartmate 3 [®]	HVAD [®]
Speed	8,000-10,000 RPM	5,000-6,000 RPM	2400-3200 RPM
Power	4-7 watts	3-7 watts	3-6 watts
Flow	4-8 L/min	3-6 L/min	3-6 L/min
Pulsatility Index (PI)	4-6	1-4	NA

Trauma Protocols

Trauma General

Applies to adult and pediatric patients

Key Points/Considerations

- Traumatic arrest patient: refer to the “Extremis: Obvious Death” protocol. If the patient does not meet criteria of obvious death as defined in the protocol, refer to the appropriate cardiac arrest protocol
- All other trauma patients meeting CDC criteria for transport to a trauma center go to closest appropriate trauma center
 - See “Trauma: Trauma Patient Destination”
- Patients with an **unmanageable** airway: go to the closest hospital, or call for air medical or other advanced airway assistance while transporting to the closest hospital
 - An airway does *not* necessarily require the placement of an endotracheal tube to be adequately managed
- **UNSTABLE patients should have transport initiated to the appropriate hospital/landing zone within 10 minutes of disentanglement/extrication**
- Notify the receiving facility as early as possible; give a brief description of the mechanism of injury, status of patient(s), and estimated time of arrival
- Tourniquets are approved for use in extremity trauma in New York State at the CFR level and above
- Hemostatic dressings are approved for use in New York State at the CFR level and above
- For spinal motion restriction guidelines, see “Trauma: Suspected Spinal Injuries”

Amputation

Applies to adult and pediatric patients

CFR AND ALL PROVIDER LEVELS

EMT

- Refer immediately to the “Trauma: 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 “Trauma: 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 facility 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 bleeding:
 - Apply pressure directly on the wound with a dressing
 - Hemostatic gauze* may be applied with initial direct pressure
 - Rolled gauze may be used if hemostatic gauze is not available
 - Pack wound and hold pressure
 - If bleeding soaks through the dressing, apply additional dressings
 - If bleeding is controlled, apply a pressure dressing to the wound
 - If severe bleeding persists through conventional dressings and hemostatic dressing becomes available, remove all conventional dressings, expose site of bleeding, and apply hemostatic dressing*
 - Cover the dressed site with a pressure bandage
- Immediate intervention 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)



CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

- **Do not remove a tourniquet that was placed for life-threatening bleeding**
 - If a tourniquet had been placed for apparently non-life-threatening bleeding, the tourniquet may be released while maintaining the ability to immediately reapply and otherwise control the hemorrhage should significant bleeding occur
- These steps are not intended to be used in sequence; interventions should be taken using the best judgement of the EMS professional
- 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.

- When extremity bleeding sites cannot be rapidly determined, tourniquets may be placed high and tight in accordance with training
- Conventional and pressure splints may also be used to control bleeding
- Hemostatic dressings* should be used according to manufacturer's instructions and training and may require removal of coagulated blood to directly access the source of bleeding
- If non hemostatic dressings are used for wound packing, manual pressure should be maintained for 10 minutes before applying a pressure bandage
- *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 $\leq 10\%$ 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 (especially from one eye to the other)
- 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 facility to allow for decontamination
- The whole area of the patient's hand is $\sim 1\%$ 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

Chest Trauma

Applies to adult and pediatric patients

CFR AND ALL PROVIDER LEVELS

EMT

- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- If there is a sucking chest wound, cover with occlusive dressing; if dyspnea increases, release the dressing, momentarily, during exhalation
- Contact the receiving facility as soon as possible



CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

- A sucking chest wound occurs when air passes through a wound in the chest wall when the patient breathes in

Crush Injuries – Adult

Standing orders apply to adults only

CFR AND ALL PROVIDER LEVELS

EMT

- ABCs and vital signs every 5 minutes, if practical
- Airway management and appropriate oxygen therapy
- Consider EMS physician response, if available, or early physician consultation for prolonged entrapment



CFR AND EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Albuterol via nebulizer
- Consider application of a tourniquet for prolonged entrapment placed as close as possible to the crush injury prior to the release of the extremity

KEY POINTS/CONSIDERATIONS

- Consider EMS physician response to the scene if prolonged extrication is anticipated
- After extrication, immobilize the extremity and apply cold therapy; do not elevate the extremity

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 “Trauma: Burns” protocol



CFR AND EMT STOP

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 “Trauma: 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



CFR STOP

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



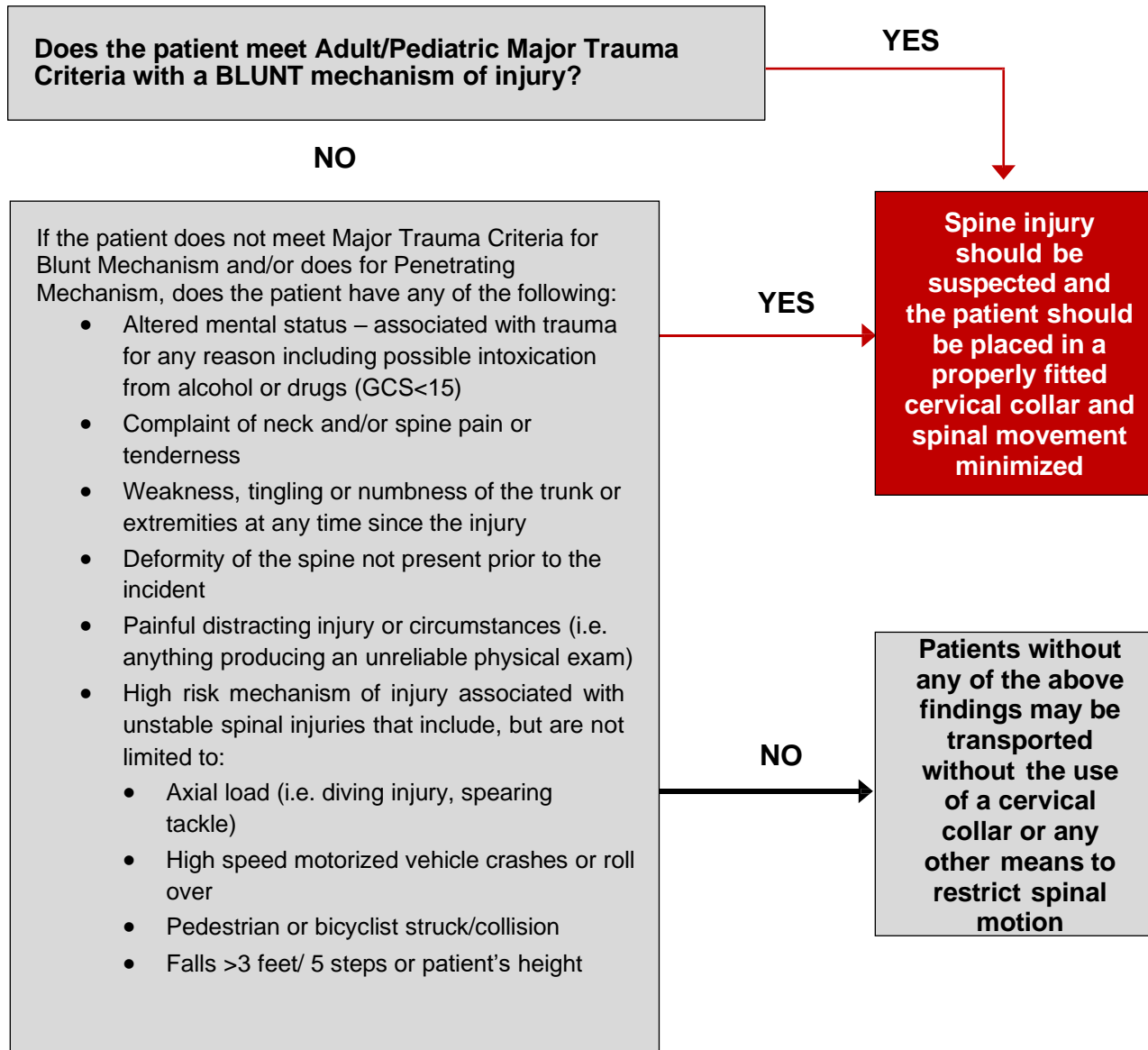
EMT STOP

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 feels significantly better after reduction, but they still need transport to a facility for further evaluation and possible treatment

Suspected Spinal Injuries

Applies to adult and pediatric patients



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

Trauma Patient Destination

Applies to adult and pediatric patients

National Guideline for the Field Triage of Injured Patients

RED CRITERIA

High Risk for Serious Injury

Injury Patterns	Mental Status & Vital Signs
<ul style="list-style-type: none"> ▪ Penetrating injuries to head, neck, torso, and proximal extremities ▪ Skull deformity, suspected skull fracture ▪ Suspected spinal injury with new motor or sensory loss ▪ Chest wall instability, deformity, or suspected flail chest ▪ Suspected pelvic fracture ▪ Suspected fracture of two or more proximal long bones ▪ Crushed, degloved, mangled, or pulseless extremity ▪ Amputation proximal to wrist or ankle ▪ Active bleeding requiring a tourniquet or wound packing with continuous pressure 	<p>All Patients</p> <ul style="list-style-type: none"> ▪ Unable to follow commands (motor GCS < 6) ▪ RR < 10 or > 29 breaths/min ▪ Respiratory distress or need for respiratory support ▪ Room-air pulse oximetry < 90% <p>Age 0–9 years</p> <ul style="list-style-type: none"> ▪ SBP < 70mm Hg + (2 x age in years) <p>Age 10–64 years</p> <ul style="list-style-type: none"> ▪ SBP < 90 mmHg or ▪ HR > SBP <p>Age ≥ 65 years</p> <ul style="list-style-type: none"> ▪ SBP < 110 mmHg or ▪ HR > SBP

Patients meeting any one of the above RED criteria should be transported to the highest-level trauma center available within the geographic constraints of the regional trauma system

YELLOW CRITERIA

Moderate Risk for Serious Injury

Mechanism of Injury	EMS Judgment
<ul style="list-style-type: none"> ▪ High-Risk Auto Crash <ul style="list-style-type: none"> - Partial or complete ejection - Significant intrusion (including roof) <ul style="list-style-type: none"> ▪ >12 inches occupant site OR ▪ >18 inches any site OR ▪ Need for extrication for entrapped patient - Death in passenger compartment - Child (age 0–9 years) unrestrained or in unsecured child safety seat - Vehicle telemetry data consistent with severe injury ▪ Rider separated from transport vehicle with significant impact (eg, motorcycle, ATV, horse, etc.) ▪ Pedestrian/bicycle rider thrown, run over, or with significant impact ▪ Fall from height > 10 feet (all ages) 	<p>Consider risk factors, including:</p> <ul style="list-style-type: none"> ▪ Low-level falls in young children (age ≤ 5 years) or older adults (age ≥ 65 years) with significant head impact ▪ Anticoagulant use ▪ Suspicion of child abuse ▪ Special, high-resource healthcare needs ▪ Pregnancy > 20 weeks ▪ Burns in conjunction with trauma ▪ Children should be triaged preferentially to pediatric capable centers <p>If concerned, take to a trauma center</p>

Patients meeting any one of the YELLOW CRITERIA WHO DO NOT MEET RED CRITERIA should be preferentially transported to a trauma center, as available within the geographic constraints of the regional trauma system (need not be the highest-level trauma center)

Resources

Advance Directives/DNR/MOLST

Applies to adult and pediatric patients

CRITERIA

PHL § 2994-gg: “No person shall be subjected to criminal prosecution or civil liability, or be deemed to have engaged in unprofessional conduct, for honoring reasonably and in good faith pursuant to this section a nonhospital order not to resuscitate, for disregarding a nonhospital order pursuant to section twenty-nine hundred ninety-four-ee of this article, or for other actions taken reasonably and in good faith pursuant to this section.”

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



CFR AND EMT STOP

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 facility
- A MOLST is still valid even if the physician signature has expired
- A copy of the original MOLST is a valid document
 - The eMOLST form may be printed and affixed with electronic signatures. Electronic signatures on the eMOLST form are considered valid signatures
- 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 or its updated replacement, if superseded
- If a patient with a DNR (stand-alone DNR form, or as directed by a MOLST or eMOLST form) is a resident of a nursing home (or a patient of an interfacility transport) and

expires during transport, contact the receiving staff to determine if they are willing to accept the patient to that facility. If not, return the patient to the sending facility. A copy of the DNR, MOLST, or eMOLST must be attached to the PCR and retained by the agency for all transports from a sending facility to a nursing home

APGAR

	0	1	2
Activity	limp	flexion	active
Pulse	0	<100	>100
Grimace (during suctioning)	none	grimace	pulling away
Appearance	blue-gray	gray hands/feet	normal
Respirations	0	weak cry	vigorous cry

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 SpO₂ \geq 92%

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 cm H₂O
- 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 cm H₂O
- 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 \geq 92%
- Verify a high pressure alarm no higher than 40 cm H₂O

- Set PEEP to 5 cm H₂O
- 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 facility 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)

De-escalation Techniques

Criteria

- EMS providers all levels) may be faced with situations that will benefit from these techniques. While we introduce these as beneficial for adolescent encounters, they may be of benefit for all patients
- Some of these techniques will be more applicable for some situations than others. Resources and location will determine how these can be employed
- Education to support these techniques may be available from EMS-C and others

Key Points/Considerations

When possible, have the care team develop a plan for interaction with the patient prior to engaging with them

Environmental Interventions

- Move the patient to a safe and comfortable area that can reduce triggers and calm the patient

Rules of Verbal De-escalation

- Respect personal space
- Do not be provocative
- Establish verbal contact (1 communicator)
- Be concise
- Identify wants and feelings
- Listen closely to what the patient is saying
- Agree or agree to disagree
- Set firm safety limits clearly and calmly
- Offer choices and optimism
- Debrief the patient and staff

Behavioral Interventions

- Limits on unacceptable behaviors and specific praise for adherence to requests
- Reflective statements and validation
- Allow patient to clarify triggers for agitation and promote problem-solving

Glasgow Coma Score (GCS)

Adult GCS (Score 3-15)

Best Eye Response	Best Verbal Response	Best Motor Response
Spontaneous (+4)	Oriented (+5)	Obeys commands (+6)
To verbal command (+3)	Confused (+4)	Localized pain (+5)
To pain (+2)	Inappropriate words (+3)	Withdrawal from pain (+4)
No eye opening (+1)	Incomprehensible sounds (+2)	Flexion to pain (+3)
	No verbal response (+1)	Extension to pain (+2)
		No response (+1)

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

Best Eye Response	Best Verbal Response	Best Motor Response
Spontaneous (+4)	Coos, babbles (+5)	Moves spontaneously / purposefully (+6)
To verbal stimuli (+3)	Irritable cries (+4)	Withdraws to touch (+5)
To pain (+2)	Cries in response to pain (+3)	Withdraws to pain (+4)
No response (+1)	Moans in response to pain (+2)	Flexor posturing to pain (+3)
	No response (+1)	Extensor posturing to pain (+2)
		No response (+1)

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.

Interfacility Transport

Applies to adult and pediatric patients

EMT

- An EMT may transport stable patients with a secured saline lock device in place, as long as no fluids or medications are attached



EMT STOP

KEY POINTS/CONSIDERATIONS

- This protocol may be applied to facilities not covered in Article 28 of the public health law, such as urgent care centers and physician offices, as required
- Orders should be written by the sending physician in case there are directives to implement care not otherwise specified in the protocols
- After assessing the patient and reviewing the patient's records and transfer orders, the crew must determine if the patient's current condition is appropriate for the provider's level of training, experience, and available equipment
- If there are any changes in the patient's condition that are not covered by the prescribed orders or agency protocols, contact medical control. If a total failure of communications occurs, and the patient is unstable and decompensating, follow these protocols and go to the closest hospital's emergency department
- An appropriately trained nurse, respiratory therapist, physician assistant, nurse practitioner, or physician from the sending facility must accompany the patient for any prescribed treatments or modalities for which the designated provider is not credentialed by his or her agency, or that is outside of the provider's level of training, experience, and/or available equipment
 - Each region may indicate specific medications or medication types that providers may transport without hospital personnel
- Regions may have more extensive procedures governing interfacility transports

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 facility the source patient was transported to, if possible

Nerve Agent - Suspected

Applies to adult and **SOME** pediatric patients

THIS RESOURCE IS SPECIFIC TO A DISASTER SETTING

CRITERIA

- This resource is for those adult patients who are suspected of being exposed to an organophosphate or a chemical nerve agent, and are experiencing some or all of following signs/symptoms:
 - MODERATE: SLUDGEM = Salivation-Lacrimation-Urination-Diarrhea-GI Distress-Emesis-Muscle Twitching-Miosis
 - SEVERE: SLUDGEM + Agitation/Confusion/Seizures/Coma + Respiratory Distress
- This is a reference to assist with the implementation of BEMS policy statement 03-05 (“Mark I Kits”) or the updated version in a WMD incident

CFR AND ALL PROVIDER LEVELS

EMT

- Don personal protective equipment
DO NOT APPROACH WITHOUT ADEQUATE PROTECTION
- Contact dispatch to declare an incident; request an appropriate response
- Request ALS, if not already present or en route
- Contact medical control to request CHEMPACK Program Antidote Kits
- Consider requesting an EMS physician to scene
- Decontaminate as needed
- ABCs and vital signs
- Airway management with high concentration oxygen
- If SEVERE signs and symptoms are present, administer three (3) atropine 2 mg auto-injectors and three (3) pralidoxime (2-PAM) auto-injectors in rapid succession (stacked). Atropine MUST be administered first
- If MODERATE signs and symptoms are present, administer two (2) atropine 2 mg auto-injectors and one (1) pralidoxime (2-PAM) auto-injectors in rapid succession (stacked). Atropine MUST be administered first



CFR AND EMT STOP

KEY POINTS/CONSIDERATIONS

- EMS providers should be trained at the WMD Awareness level to use this protocol
- The auto-injectors or other medications found in the CHEMPACK Program Antidote Kits are NOT to be used for prophylaxis
- Children should be decontaminated and have expedited transport off scene, especially if they are demonstrating ANY signs or symptoms of exposure
- Consult medical control before administering medication to children younger than 8 years of age
- **CHEMPACK Program Antidote Kit medications may be used regardless of the expiration date**

Mark I Kit Dosing Chart

Triage - Initial Treatment – Antidote Dosing Schedules		
Signs and Symptoms	Atropine Dose Monitor Interval	Pralidoxime Chloride (2-PAM CL) Dose
SEVERE Respiratory Distress Agitation/Seizures SLUDGEM	3 Auto-injectors (6 mg total) Monitor every 5 minutes	3 Auto-injectors (1.8 Gm)
MODERATE Respiratory Distress SLUDGEM	2 Auto-injectors (4 mg total) Monitor every 10 minutes	1 Auto-injector (600 mg)
ASYMPTOMATIC None	None Monitor for signs and symptoms every 15 minutes	None

KEY POINTS/CONSIDERATIONS

- Mark I Kit Assets: diazepam (Valium), atropine, and pralidoxime (2-PAM) may be administered by qualified emergency personnel and designated emergency responders who have had adequate training in on-site recognition and treatment of nerve and/or organophosphate agent intoxication
- Combination autoinjectors (such as DuoDote® and ComboPen®) that contain both atropine and pralidoxime (2-PAM) together may be used in place of the autoinjectors that contain the individual drugs
- Diazepam (Valium) auto-injectors should be administered, as directed on the packaging, only to patients who are having active tonic-clonic seizures
- **CHEMPACK Program Antidote Kit medications may be used regardless of the expiration date**

Normal Vital Signs for Infants/Children

Age	Respirations	Pulse	Systolic BP
Newborn (<28 days)	30 – 60	100 – 180	>60
Infant (< 1 year)	30 – 60	100 – 160	>60
Toddler (1 – 3 years)	24 – 40	90 – 150	>70
Preschooler (3 – 5 yrs)	22 – 34	80 – 140	>75
School-aged (6 – 8 yrs)	18 – 30	70 – 120	>80

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 “Extremis: Respiratory Arrest/Failure” or “Extremis: 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 < 92% 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 92% (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

CFR STOP

EMT

- 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)*
 - See “Resource: Automatic Transport Ventilator”

EMT STOP

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

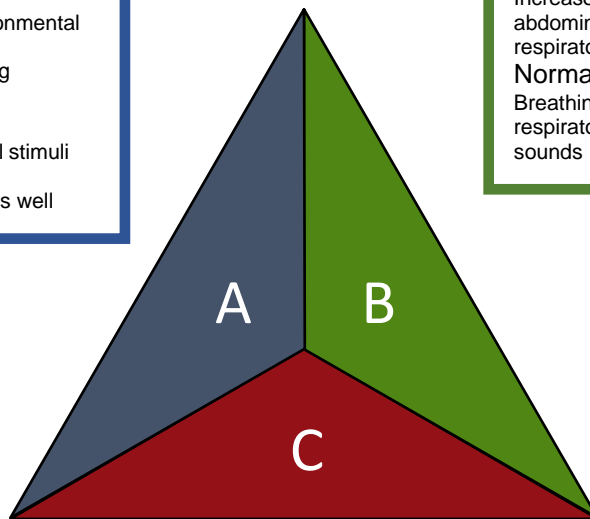
B Work of Breathing (Visible Movement / Respiratory Effort)

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 and 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 and wishes to refuse indicated care or transport
- 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 may augment 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 facility
- 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



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 facility 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