



Department of Health

Division of State EMS

Statewide Basic Life Support Adult and Pediatric Treatment Protocols

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* Protocols effective 09/01/2026 unless otherwise approved for a region by the Department.

Background

These protocols are intended to guide and direct patient care by EMS. 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

Pursuant to Article 3004-A, the Regional Emergency Medical Advisory Committee (REMAC) shall develop policies, procedures, and protocols for triage, treatment, and transport. These protocols are put forth on behalf of the REMACs of the participating regions.

Protocols are listed for each provider level and “STOP” lines indicate the end of standing orders.

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

Regional procedures and policies may accompany these protocols.

The color-coded format of the protocols allows each EMS 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 standing orders
- These are also standing orders for all levels of credential above CFR

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

- This area includes 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/or Regulation
- These protocols should not serve as a demonstration of required equipment or training, as regional and agency variations will exist
- Regions will determine the requisite training that providers must review prior to utilizing these protocols
- Regions are expected to maintain a Quality Improvement program and develop training programs that will improve proficiency
- Throughout these protocols, the following symbols are used:

‡ Refers to “If equipped and trained.” This indicates the intervention(s) may be performed if an agency or region chooses to implement the intervention and the practitioner is trained to the standard of the agency or region and has the intervention (medication, equipment, etc) available to them during the course of patient care. 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 clinical review that is compulsory with any other aspect of prehospital emergency care.

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

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

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

Acknowledgements

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

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NYS DOH Bureau of EMS staff.

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(1) 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 policies 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

Ongoing situational awareness and patient assessment

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

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 NIMS (e.g. unified command, ICS) structure, as appropriate
For MCIs, establish a command structure as soon as possible

General Approach to the Patient

Applies to adult and pediatric patients

CRITERIA

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

CFR AND ALL PROVIDER LEVELS

EMT

History of present illness and other subjective information

- 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

Primary Patient Assessment

Airway

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

Breathing

- Apply oxygen and/or positive pressure ventilation as indicated
- See “Resources: Oxygen Administration and Airway Management”
 - Is breathing present
 - Is breathing too fast or too slow to sustain life
 - Is the patient speaking effectively

Circulation

- Control serious life-threatening hemorrhage
- See “Trauma: Bleeding / Hemorrhage Control”
 - 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
 - o Alert, Voice, Pain, Unresponsive (AVPU)
 - o GCS
 - o Pupils
 - o Cincinnati Pre-Hospital Stroke Scale (and other regionally approved stroke scale, as applicable)

Expose

- Appropriately expose, as needed, to perform complete physical exam and interventions
 - o Are exposed patients sufficiently protected from public view

Transport Decision

- See “General Approach: to Transportation”

Secondary Patient Assessment

- Vital Signs (repeated frequently if abnormal or critical patient)
 - o Pulse: rate and quality
 - o Respiration: rate and quality
 - o Blood pressure
 - Obtain BP by palpation only if necessary
 - o 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, see “Resources: Refusal of Medical Attention” 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 when transferring care
- 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 facility in accordance with state, regional and agency 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/her arms or lap. The child and parent/caregiver should *each* be restrained appropriately.
- All patients on the stretcher must be secured when the vehicle is in motion or the stretcher is being carried or moved; stretcher harness straps should always be used
- A child's own safety seat – when available and intact – can be used to restrain a child during transport. He/she should be placed in the device and the device should be belted to an ambulance seat. If the child is the patient, the seat should be secured onto the stretcher and the child belted in the child safety seat.
- If the ambulance service does not have an ambulance equipped with child safety seats or restraint, it is recommended that the agency purchase approved child safety seat(s) or restraint(s) for each ambulance. More than one size seat/restraint may be needed as location of the restraint (i.e., stretcher, or captain's chair) may not accommodate all size children.
- Agencies should routinely train EMS personnel in the use of various child safety seats/restraints available and have a policy for how injured or uninjured children will be transported
- As an agency considers the purchase of new vehicles, or is retrofitting current vehicles, design considerations, such as integrated child restraints, should be considered
- All safety seats/restraints should be used according to manufacturer's recommendations

Key Points/Considerations

- If a patient chooses to refuse safety restraints, see “Resources: Refusal of Medical Attention”, as well as agency and regional 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

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 a hospital.

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

- The closest appropriate hospital may not be the nearest hospital, even for patients in extremis such as those in cardiac or respiratory arrest
- 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 hospital in accordance with regional policy.

Ensure early notification for serious trauma, STEMI, stroke, and sepsis.

MEDICAL CONTROL CONSIDERATIONS

- Medical control may assist with questions of care especially in the setting of complex medical conditions
- Medical control may assist with the determining the most appropriate receiving facility

Key Points/Considerations

- If a patient chooses to refuse care or transportation, see “Resources: Refusal of Medical Attention” as well as agency and regional policy

(2) Extremis / Cardiac Arrest Protocols

Cardiac Arrest – Adult: General Approach

For pediatric see, “Cardiac Arrest – Pediatric: General Approach”

CRITERIA

- For patients who are unresponsive without signs of life
- For patients that do not meet the criteria of the “Extremis: Obvious Death” protocol or otherwise excluded by a DNR/MOLST order, see “Resources: Advance Directives/MOLST/DNR”
- See “Environmental: Hypothermia” if there is concern for severe/profound hypothermia

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 are strongly encouraged
- 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 (BVM), as indicated, with BLS airway management, including suction (as needed),
- 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
- Consider vector change for refractory shockable rhythms¹

● CFR STOP

EMT

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

● 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

- 1 – A vector change refers to altering the placement of the defibrillation pads (e.g. changing from sternum/apex to anterior/posterior). A refractory shockable rhythm means that multiple shocks were given and the patient is suspected to remain in a pulseless, shockable rhythm such as VF or pulseless VT.
 - 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 (BVM) if 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)
 - 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
 - o Consider mechanical CPR devices when available for provider safety if there is a need to do compressions in moving ambulances

Cardiac Arrest – Pediatric: General Approach

CRITERIA

- For patients who are unresponsive without signs of life
- For patients that do not meet the criteria of the “Extremis: Obvious Death” protocol or otherwise excluded by a DNR/MOLST order, see “Resources: Advance Directives/MOLST/DNR”
- See “Environmental: Hypothermia” if there is concern for severe/profound hypothermia

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 are strongly encouraged
- 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 rhythm checks, as resources allow
 - Minimize interruptions in chest compressions
- Avoid hyperventilation
- Use of level-appropriate airway adjuncts and bag-valve-mask (BVM), as indicated, with BLS airway management, including suction (as needed),
- Rhythm check or AED “check patient” every two minutes of CPR
- Defibrillate as appropriate (pediatric 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
- Consider vector change for refractory shockable rhythms¹

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

1 – A vector change refers to altering the placement of the defibrillation pads (e.g. changing from sternum/apex to anterior/posterior). A refractory shockable rhythm means that multiple shocks were given and the patient is suspected to remain in a pulseless, shockable rhythm such as VF or pulseless VT.

- 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 (BVM) if 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
 - o Consider mechanical CPR devices when available for provider safety, if there is a need to do compressions in moving ambulances

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

- Airway management and appropriate oxygen therapy

CFR STOP

EMT

- Acquire and transmit 12-lead ECG[‡]

EMT STOP

Key Points/Considerations

- Acquisition of a 12-lead ECG should be completed *before* transport
 - Appropriate patient assessment and stabilization should be completed as soon as possible following ROSC
 - Voice communication with receiving facility must be completed as soon as possible after ROSC
- ALL patients with STEMI and ROSC should be transported to a receiving hospital capable of primary angioplasty, if feasible, within a transport time recommended per regional procedure
- Patients who are in recurrent cardiac arrest should be transported to the closest appropriate hospital unless otherwise authorized by medical control

Foreign Body Obstructed Airway – Adult

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
 - o Encourage the patient to cough
 - o Transport in a sitting position or other position of comfort
 - o Administer supplemental oxygen; see “Resources: Oxygen Administration and Airway Management”
 - o Perform ongoing assessment and watch for progression to complete obstruction
- Facilitate transportation, ongoing assessment, and supportive care
 - o Perform ongoing assessment and watch for progression to complete obstruction
- If the patient is **conscious** and **cannot** breathe, cough, or speak
 - o Perform airway maneuvers according to current AHA/ARC/NSSC guidelines
- If the patient is **unconscious**
 - o Remove any *visible* airway obstruction by hand
 - o Perform level-appropriate airway maneuvers, as indicated
 - o Perform CPR, see “Extremis: Cardiac Arrest – Adult: General Approach”



CFR, EMT STOP

Foreign Body Obstructed Airway – Pediatric

CRITERIA

- Pediatric 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; see “Resources: Oxygen Administration and Airway Management”
 - 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 level-appropriate airway maneuvers
 - Perform CPR, see “Extremis: Cardiac Arrest – Pediatric: General Approach”



CFR AND EMT STOP

Key Points/Considerations

- 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

Obvious Death

Applies to adult and pediatric patients

CFR AND ALL PROVIDER LEVELS

EMT

- Criteria for obvious death may be different in the severe or profoundly hypothermic patient; see “Environmental: Hypothermia”
- CPR, 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 patient¹
 - Patient exhibiting signs of obvious death as defined by ANY of the following:
 - Body decomposition
 - Rigor mortis
 - Dependent lividity (livor mortis)
 - 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

- 1 See “Resources: Advance Directives / DNR / MOLST”
ALS is not required for the determination of obvious death

Respiratory Arrest / Failure – Adult

For pediatric see, “Respiratory Arrest / Failure – Pediatric”

CRITERIA

- Patients with absent or ineffective breathing may have 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 (BVM)
 - If ventilations are not successful, refer immediately to “Extremis: Foreign Body Obstructed Airway – Adult”
- Level-appropriate airway management with use of airway adjuncts and bag-valve-mask (BVM), 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
- Attach pulse oximeter if available and have a goal of oxygen saturation $\geq 92\%$
 - See “Resources: Oxygen Administration and Airway Management”

● CFR ANDEMT 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 “Extremis: Cardiac Arrest – Adult: General Approach”)
- Adequate ventilation *may* require disabling the pop-off valve if the bag-valve-mask (BVM) is so equipped

Respiratory Arrest / Failure – Pediatric

CRITERIA

- Patients with absent or ineffective breathing may have cyanosis, visible retractions, severe use of accessory muscles, altered mental status, respiratory rate less than 12 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 an appropriate size bag-valve-mask (BVM)
 - If ventilations are not successful, refer immediately to the “Extremis: Foreign Body Obstructed Airway – Pediatric”
- Use of level-appropriate airway adjuncts and bag-valve-mask (BVM), as indicated, with BLS airway management, including suction (as needed), as available
 - The bag-valve-mask (BVM) 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 “Resources: Oxygen Administration and Airway Management”



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: General Approach”)
- Adequate ventilation *may* require disabling the pop-off valve, if the bag-valve-mask (BVM) is so equipped

Termination of Resuscitation

Applies to adult and pediatric patients

CFR AND ALL PROVIDER LEVELS

EMT

- See “Extremis: Obvious Death”



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

- See “Resources: Advance Directives/MOLST/DNR” as appropriate
- Patients that do not meet the above standing order termination of resuscitation may be considered for termination of resuscitation with medical control
- If resuscitative efforts are terminated, contact law enforcement per regional or jurisdictional procedure. Do not remove airway management devices. The patient may be covered and may be moved back onto a bed or sofa, if appropriate and approved by law enforcement.
- If the family is present, appropriate emotional support by other family, neighbors, clergy, or police should be available when considering termination of resuscitation

(3) General Adult and Pediatric Medical Protocols

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

Applies to pediatric patients under 2 years of age

CRITERIA

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

CFR AND ALL PROVIDER LEVELS

- Airway management and appropriate oxygen therapy
- Ongoing assessment of the effectiveness of breathing
 - o See “Extremis: Respiratory Arrest / Failure - Pediatric” if necessary
 - o See “General: Opioid (Narcotic) Overdose” if necessary
- See “General: Altered Mental Status”, if necessary

 **CFR STOP**

EMT

- Check blood glucose level[‡]
 - o See “Hypoglycemia – Adult or Hypoglycemia – Pediatric”

 **EMT STOP**

Key Points/Considerations

- 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” if the caregiver wishes to refuse transportation.

Altered Mental Status

Applies to adult and pediatric patients

CRITERIA

- For the undifferentiated patient with altered mental status
- See also as indicated the following protocols:
 - o ALTE/BRUE – Pediatric
 - o Behavioral Emergencies: Agitated Patient
 - o Hypoglycemia – Adult
 - o Hypoglycemia – Pediatric
 - o Opioid (Narcotic) Overdose
 - o Poisoning / Overdose: Undifferentiated – Adult
 - o Poisoning / Overdose: Undifferentiated – Pediatric

CFR AND ALL PROVIDER LEVELS

- Airway management and appropriate oxygen therapy
- Ongoing assessment of the effectiveness of breathing, see as necessary:
 - o “Extremis: Respiratory Arrest / Failure – Adult”
 - o “Extremis: Respiratory Arrest / Failure – Pediatric”
 - o “General: Opioid (Narcotic) Overdose”

CFR STOP

EMT

- Check blood glucose level[‡], if known or suspected to be below 60 mg/dL, see “Hypoglycemia – Adult” or “Hypoglycemia – Pediatric”

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

Anaphylaxis and Allergic Reaction – Adult

For pediatric see, “Allergic Reaction and 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
- Airway management and appropriate oxygen therapy
- Ongoing assessment of the effectiveness of breathing
 - See “Extremis: Respiratory Arrest / Failure – Adult” if necessary

If severe respiratory distress, facial or oral edema, and/or hypoperfusion

OR

If patient has **a history of anaphylaxis** and has an exposure to an allergen developing respiratory distress and/or hypoperfusion and/or rash:

- Epinephrine (1 mg/mL) 0.3 mg IM^{†1}
- If the patient does not improve within 5 minutes, may repeat once

● CFR STOP

EMT

- If wheezing, Albuterol² 2.5 mg via nebulizer; may repeat to a total of three doses
 - May be combined with Ipratropium (Atrovent) 0.5 mg in 2.5 mL (unit dose) [‡]

● EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Additional Albuterol
- Additional Epinephrine for levels with limited standing orders

Key Points/Considerations

1. Epinephrine 0.3 mg may be administered via Adult Autoinjector (CFR or higher) or Syringe Epinephrine Kit (EMT or higher)
 2. 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.

Anaphylaxis and Allergic Reaction – 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
 - o Do not force the child to lie down
 - o Do not agitate the child
- Airway management and appropriate oxygen therapy
- Ongoing assessment of the effectiveness of breathing
 - o See “Extremis: Respiratory Arrest / Failure – Pediatric” as necessary
 - o See “Dif Breathing – Pediatric: Stridor” as necessary

If severe respiratory distress, facial or oral edema, and/or hypoperfusion

OR

If patient has **a history of anaphylaxis** and has an exposure to an allergen developing respiratory distress and/or hypoperfusion and/or rash:

- Epinephrine (1 mg/mL) 0.3 mg IM if ≥ 30 kg^{#1}
- Epinephrine (1 mg/mL) 0.15 mg IM if < 30 kg^{#2,3}
- If the patient does not improve within 5 minutes, may repeat once

● CFR STOP

EMT

- If wheezing, Albuterol⁴ 2.5 mg via nebulizer; may repeat to a total of three doses
 - o May be combined with Ipratropium (Atrovent) 0.5 mg in 2.5 mL (unit dose)[‡]

● EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Epinephrine for indications other than those above
- Additional Albuterol

Key Points/Considerations

1. Epinephrine 0.3 mg may be administered via Adult Autoinjector (CFR or higher) or Syringe Epi Kit (EMT or higher)
 2. Epinephrine 0.15 mg may be administered via Pediatric Autoinjector (CFR or higher) or Syringe Epi Kit (EMT or higher)
 3. Infant Auto Injector (0.1 mg IM) may be substituted for pediatric patients < 15 kg, if available (CFR or higher)
 4. A combination unit dose (such as a DuoNeb[®]) may be substituted for Albuterol 2.5 mg in 3 mL (unit dose) & Ipratropium (Atrovent) 0.5 mg in 2.5 mL (unit dose) mixed together
- 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, where the presenting symptom is nausea, vomiting, abdominal pain, and/or diarrhea, consider anaphylaxis in consult with medical control.

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

- 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 commercial medical restraints, only if necessary to protect the patient and others from harm

CFR STOP

EMT

- Check blood glucose level[‡], as soon as you are able to safely do so. If low, see “General: Altered Mental Status / Hypoglycemia”.

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 trauma
- 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
- 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 protocol is intended to be used with agitated patients requiring sedation for medical evaluation and treatment
- This may include any patient who demonstrates potentially violent behavior, regardless of underlying etiology
- 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
- 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
- See “Resources: De-escalation Techniques”

CFR AND ALL PROVIDER LEVELS

- 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 commercial medical restraints, only if necessary to protect the patient and others from harm

CFR STOP

EMT

- Check blood glucose level[‡], as soon as you are able to safely do so. If low, see “General: Altered Mental Status / Hypoglycemia”

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
- Utilize caution and consider smaller doses in high-risk populations such as the elderly, small patients, or those with significant comorbidities
- Consider medical causes of abnormal behavior such as: hypoxia, hypoperfusion, hypoglycemia, head injury, intoxication, other drug ingestion, and trauma
- 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
- 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 or others
- See “Resources: De-escalation Techniques”

CFR AND ALL PROVIDER LEVELS

- 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 commercial soft medical restraints, only if necessary to protect the patient and others from harm
- See as necessary “General: Altered Mental Status”

● CFR STOP

EMT

- Check blood glucose level[‡], as soon as you are able to safely do so. If abnormal, see “General: Hypoglycemia – Pediatric”

● 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 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
- See also “Smoke Inhalation / Cyanide Poisoning – Symptomatic”, as indicated

CFR AND ALL PROVIDER LEVELS

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

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 hospital

ASYMPTOMATIC potentially exposed people:

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

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 adult patients or older pediatric patients as equipment size allows

MULTIPLE patients:

- Consult medical control for guidance regarding transport 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

- When using noninvasive carbon-monoxide measuring devices:
 - Consider contacting medical control to discuss appropriate hospital destination for patients with the following:
 - SpCO reading >25%
 - Loss of consciousness
 - Significant altered mental status or an abnormal neurologic exam
 - Pregnancy

- o Pediatrics: Assure your device is approved for pediatric use and, if so, that pediatric appropriate sensors are utilized
- o Pregnant women: The fetal SpCO may be 10-15% higher than maternal reading
- o Smokers: Heavy smokers may have baseline SpCO levels up to 10%
- o A misapplied or dislodged sensor may cause inaccurate readings
- o Do not use tape to secure the sensor
- o Do not place the sensor on the thumb or 5th digit

Cardiac – Adult: Total Artificial Heart (TAH)

CRITERIA

- Evaluation and/or transport of a patient with a total artificial heart (TAH)

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, perfusion, and artificial heart function
 - If no pulse present:
 - Consider early consult with TAH coordinator¹ or medical control
 - Check for severed or kinked TAH driveline (address as possible)
 - Check battery position and power status (replace as possible)
 - Use the backup driver, or hand pump, if available
 - Do **not** perform chest compressions or place an AED
- Assess blood pressure: goal blood pressure is >90 mmHg and <150 mmHg
- Perform a secondary assessment and treat per protocol
 - If unresponsive with a pulse, evaluate for noncardiac etiologies
- Notify the receiving hospital that your patient has a TAH while on scene or promptly after initiation of transport *regardless* of patient's complaint
- Assure that patient has drivers (compressor), hand pump, all batteries, and power cords for transport
- Any trained support member² should remain with patient

● CFR AND EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Termination of resuscitation
- Consultation with a TAH program provider

Key Points/Considerations

- 1 Institution TAH coordinator phone number may be found along with pump model information on a tag located with the controller. Patients may also have a medical bracelet, necklace, or wallet card with this information.
 - 2 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.
- 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 multi-agent 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:
 - o Target Blood Pressure is <150 mmHg and >90 mmHg
 - o Pulse rate is set and regular, between 120-135 bpm

Cardiac – Adult: Ventricular Assist Device (VAD)

CRITERIA

- 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.
- Assess perfusion:
 - 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
- Assess pump function:
 - 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
- Perform CPR **only** when there are no signs of flow or perfusion (the person is unresponsive, pulseless, or there is no evidence of the pump functioning [eg: no motor “hum”])
- Perform a secondary assessment and treat per appropriate protocol
- Notify the receiving facility promptly and consider early consultation with the VAD coordinator¹ or medical control, *regardless* of the patient’s complaint
- Assure the power unit, extra batteries, and backup controller accompany patient
- A trained support member² 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

MEDICAL CONTROL CONSIDERATIONS

- Termination of resuscitation
- Consultation with a VAD program provider

Key Points/Considerations

- 1 Institution VAD coordinator phone number may be found along with pump model information on a tag located on the pocket controller. Patients may also have a medical bracelet, necklace, or wallet card with this information.

- 2 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	2,400-3,200 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	N/A

Cardiac Related Problem / Chest Pain – Adult

For pediatric see, “Cardiac Related Problem – Pediatric”

CRITERIA

- For patients presenting with suspected cardiac chest pain, angina, or an anginal equivalent¹
- For the patient with a confirmed STEMI see, “Cardiac – Adult: ST Elevation MI (STEMI)” as soon as confirmed

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^{‡2}

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
- For patients with signs of hypoperfusion, see also “General: Cardiogenic Shock – Adult”

EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Additional Nitroglycerin 0.4 mg SL every 5 minutes
- Consider medical control consultation, as needed, for determination of most appropriate destination facility

Key Points/Considerations

- 1 Consider 12-lead ECG for adults, with any one of the following: dyspnea, syncope, dizziness, fatigue, weakness, nausea, or vomiting
- 2 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.
- 3 If the patient becomes hypotensive after Nitroglycerin administration, place the patient in a supine position, if there is no contraindication to doing so, such as severe pulmonary edema.

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/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
- If the heart rate is markedly bradycardic, and the patient's mental status or respiratory rate are decreased, ventilate with a bag-valve-mask (BVM) and consider chest compressions

● 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 blood glucose[‡] and see "General: Hypoglycemia – Pediatric" and/or "General: Altered Mental Status" as indicated

● EMT STOP

Key Points/Considerations

- Chest pain in children is rarely a sign of a cardiac condition
- Notify the destination hospital ASAP and communicate if the patient has signs of cardiac failure or decompensation
- Infants with congenital heart disease may present with symptoms very similar to septic shock (poor perfusion, poor distal pulses, tachypnea, or dusky appearance)
- Pediatric patients with a congenital heart condition often have oxygen saturations 65-85%. Too much oxygen may be detrimental and result in worsening circulation.
- Transport to hospital should not be delayed in ill pediatric cardiac patients
- Hypotension in children:

Age	Systolic Hypotension
<1 month	<60 mmHg
1 month to 1 year	<70 mmHg
1 – 10 years	< (70 + 2 x age in years) or <90 mmHg

Cardiogenic Shock – Adult

For pediatric see, “Sepsis / Shock / Hypoperfusion - Pediatric”

CRITERIA

- This protocol is for use with “ST Elevation MI (STEMI) – CONFIRMED” or “Cardiac Related Problem / Chest Pain – Adult” protocols for patients with signs of hypoperfusion

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

- ABCs and vital signs
- Acquire and transmit 12-lead ECG[‡]
 - Hospital destination may be determined in consultation with medical control
- Place patient supine unless dyspnea is present

EMT STOP

Dif Breathing – Adult: Asthma / COPD / Wheezing

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

CRITERIA

- Patients with effective but increased work of breathing with wheezing not due to trauma or suspected pneumothorax

CFR AND ALL PROVIDER LEVELS

- Assess for foreign body airway obstruction
 - See “Extremis: Foreign Body Obstructed Airway – Adult” if suspected
- Ongoing assessment of the effectiveness of breathing
 - See “Extremis: Respiratory Arrest / Failure – Adult”, if necessary
- Administer supplemental oxygen; see “Resources: Oxygen Administration and Airway Management”
- Assist patient with their own medications; see “Resources: Prescribed Medication Assistance”
- Facilitate transportation, ongoing assessment, and supportive care

● CFR STOP

EMT

- If wheezing, Albuterol 2.5 mg via nebulizer, may repeat to a total of three doses[‡]
 - May be combined with Ipratropium (Atrovent) 0.5 mg in 2.5 mL (unit dose)[‡]
- Continuous Positive Airway Pressure (CPAP) 5-10 cm H₂O, as needed[‡]
- If the patient is in severe distress, seek medical control for consideration of Epinephrine[‡]

● EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Use of Albuterol via nebulizer by EMT[‡] for indications other than asthma
- Use of Epinephrine by EMT[‡] for critical asthma attack
- Additional Albuterol unit doses via nebulizer

Key Points/Considerations

- Wheezing does not always indicate asthma. Consider allergic reaction, airway obstruction, 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
- A combination unit dose (such as a DuoNeb[®]) may be substituted for Albuterol 2.5 mg in 3 mL (unit dose) & Ipratropium (Atrovent) 0.5 mg in 2.5 mL (unit dose) mixed together
- IM administration of Epinephrine should be used if the patient is in severe distress and tidal volume is so small that nebulized medications will not work
- Observe airborne and/or droplet precautions in appropriate patients, such as those with suspected tuberculosis

- Do not delay transport to complete medication administration

Dif Breathing – Pediatric: Asthma / Wheezing

CRITERIA

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

CFR AND ALL PROVIDER LEVELS

- Assess for foreign body airway obstruction
 - See “Foreign Body Obstructed Airway – Pediatric” if suspected
- Ongoing assessment of the effectiveness of breathing
 - See “Respiratory Arrest / Failure – Pediatric” if needed
- 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; see “Oxygen Administration and Airway Management”
- Assist patient with his or her own asthma medications; see “Prescribed Medication Assistance”
- Facilitate transportation, ongoing assessment, and supportive care

● CFR STOP

EMT

- If wheezing, Albuterol 2.5 mg via nebulizer; may repeat to a total of three doses[‡]
 - May be combined with Ipratropium (Atrovent) 0.5 mg in 2.5 mL (unit dose)[‡]
- If severe distress, seek medical control for consideration of:
 - Epinephrine (1 mg/mL) 0.3 mg IM if ≥ 30 kg^{‡1}
 - Epinephrine (1 mg/mL) 0.15 mg IM if < 30 kg^{‡2,3}
- For older pediatric patients consider CPAP for EMT[‡], as equipment size allows

● EMT STOP

Key Points/Considerations

- 1 Epinephrine 0.3 mg may be administered via Adult Autoinjector (CFR or higher) or Syringe Epi Kit (EMT only)
 - 2 Epinephrine 0.15 mg may be administered via Pediatric Autoinjector (CFR or higher) or Syringe Epi Kit (EMT only)
 - 3 Infant Auto Injector (0.1 mg IM) may be substituted for pediatric patients < 15 kg, if available (CFR or higher)
- Absence of breath sounds can be indicative of status asthmaticus. Be prepared for respiratory arrest.
 - A combination unit dose (such as a DuoNeb®) may be substituted for Albuterol 2.5 mg in 3 mL (unit dose) & Ipratropium (Atrovent) 0.5 mg in 2.5 mL (unit dose) mixed together
 - 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

Dif Breathing – Pediatric: Stridor

CFR AND ALL PROVIDER LEVELS

EMT

- Assess for foreign body airway obstruction
 - See “Extremis: Foreign Body Obstructed Airway - Pediatric” if suspected
- Assess for anaphylaxis
 - See “General: Anaphylaxis – Pediatric”
- Ongoing assessment of the effectiveness of breathing
 - See “Extremis: Respiratory Arrest / Failure – Pediatric” if necessary
- Administer supplemental oxygen; see “Resources: Oxygen Administration and Airway Management”
 - 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: Hypothermia

Applies to adult and pediatric patients

CRITERIA		
Classification	Clinical Manifestations	Correlating Core Temperature ¹
Cold Stressed (NOT Hypothermic)	Shivering Intact Movement	>35°C (>95°F)
Mild	Shivering Impaired Movement	35 - 32°C (89.6-95°F)
Moderate	Decreased LOC Usually No Longer Shivering	32 - 28°C (82.4-89.6°F)
Severe/Profound	Unconscious, Not Shivering High Risk of VF/Asystole	<28°C (<82.4°F)

- This protocol does not apply to cold stressed patients as these patients are not hypothermic

CFR AND ALL PROVIDER LEVELS

EMT

Mild Hypothermia:

- Handle gently
- Remove wet clothing once moved into a warm environment
- Provide insulation² (blankets)
- Provide vapor barrier³, if available (plastic tarp or mylar sheets)
- Heat inside of the ambulance

Moderate Hypothermia:

- Treat for mild hypothermia and
- Minimize movement during extrication (NO standing or walking)
- Attempt to maintain the patient in a horizontal position
- Begin active external rewarming:
 - Apply heat sources to axilla, chest, and back; place a thin barrier between heat source & skin to avoid thermal burns⁴
 - Assess skin frequently for any signs of impending burns

Severe/Profound Hypothermia:

- Treat for Moderate hypothermia and
- In patients with no signs of life:
 - Assess pulse and breathing for 60 seconds⁵
 - If no pulse or breathing, begin standard cardiac arrest resuscitation, see “Cardiac Arrest: General Approach”
 - Limit AED to one shock, if indicated

- Rigor mortis, fixed pupils, & dependent lividity are not obvious signs of death in a hypothermic patient
- Obvious signs of death include trauma inconsistent with life or extensive chest wall rigidity that interferes with the ability to perform chest compressions

● CFR AND EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Patients with severe/profound hypothermia, hemodynamic instability, or cardiac arrest may benefit from transport to a facility capable of performing extracorporeal life support (ECLS) if available and <1-hour transport; facilities with cardio-pulmonary bypass capabilities may be an alternative if transport times are significant

Key Points/Considerations

- 1 Core temperatures are for reference only and refer to esophageal temperature monitoring
 - 2 Insulating material includes clothing, blankets, sleeping bags, insulated pads, etc.
 - 3 Common vapor barriers include tarps, plastic sheets, reflective blankets, commercial emergency blankets
 - 4 **Avoid using non-medical heat packs (e.g., those commonly used for hand and foot warming)** as they do not provide sufficient surface area to warm the patient effectively but increase the probability of thermal burns due to high surface temperature
 - 5 Heart and respiratory rates may be slow and difficult to detect in hypothermia
- A hypothermic patient meeting trauma center criteria should be transported to a trauma center
 - Pulse oxygenation measurement may be inaccurate if the patient is hypothermic. If the patient is cyanotic and in respiratory distress, administer oxygen.
 - Perform a complete examination to assess potential causes of altered mental status other than hypothermia
 - Classification of hypothermia should be based on clinical manifestations. Oral temperature readings are inaccurate in hypothermic states while bladder and rectal temperatures can lag behind esophageal temperatures by up to one hour.

Environmental: Localized Cold Emergencies

Applies to adult and pediatric patients

CRITERIA

- For patients presenting with localized cold injury
- For patients with hypothermia, see “Environmental: Hypothermia”, do **not** utilize this protocol

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

● CFR STOP

EMT

- Rewarm the extremity (if the means to do so are available) only if anticipated time to the hospital exceeds 60 minutes, the patient presents with early or superficial local cold injury only, and there is no concern that the extremity will freeze again:
 - Immerse the affected part in a warm water bath $\leq 105^{\circ}\text{F}$; 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

- Do not rewarm the extremity if the patient is exhibiting signs of hypothermia

Environmental: Heat Emergencies

Applies to adult and pediatric patients

CFR AND ALL PROVIDER LEVELS

EMT

- ABCs and vital signs
- Loosen or remove outer clothing
- For patients presenting with normal to cool skin temperature, if not nauseated and able to drink water without assistance, have them drink water
- For patients presenting with elevated skin temperature and normal mental status:
 - Apply cold packs to patient's palms, soles, neck, groin, or armpits as able
 - Keep the patient's skin wet by applying wet sponges or towels
- For patients presenting with elevated skin temperature and altered mental status:
 - Begin active, whole-body cooling **immediately** until their mental status returns, at which time stop cooling efforts. Transport may be delayed if means of active cooling is available. Use any of the following in decreasing order of preference:
 - Ice water immersion, cold water immersion, Tarp-Assisted Cold water with Oscillation (TACO), cold water dousing, or cold water-soaked towels with ice packs.

● CFR AND EMT STOP

Key Points/Considerations

- If the means to effectively cool patients with a heat emergency are available on the scene, the intervention should be initiated without delay and transport may be delayed if active cooling can be provided; if the means to cool a patient are not available, do not delay transport
- Stable patients with normal mental status may only require oral rehydration and cooling
- Tympanic and oral temperatures are not reliable measures for heat emergency patients and will not reflect the patient's core temperature

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 forward. 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 spinal motion restriction must take precedent for positioning and care if necessary

Fever – Adult

For pediatric see, “Fever – Pediatric”

CRITERIA

Adult patient with **any** of the following:

- Temperature >100.4°F (38°C)
- Temperature ≥2°F (1°C) over baseline and suspected infection¹
- Temperature ≥2°F (1°C) over baseline and recipient of a blood / blood product transfusion within the last 4 hours²

EMT

- ABCs and vital signs, to include SpO₂ and temperature[‡]
- Airway management and appropriate oxygen therapy
- If able to tolerate oral fluid consider one of the following: [‡]
 - Acetaminophen³ up to 1000 mg PO
 - Ibuprofen⁴ up to 400 mg PO

● EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Additional Acetaminophen³
- Additional Ibuprofen⁴

Key Points/Considerations

- 1 If fever is due to suspected viral or bacterial infection, see “Severe Sepsis / Septic Shock”
- 2 Acetaminophen contraindications (unless medical control approved):
 - >650 mg of Acetaminophen or an acetaminophen-containing product within 4 hours
 - Hx of liver problems / acute liver failure
 - Acute liver inflammation due to hepatitis C virus
 - In the setting of shock or overdose (especially acetaminophen overdose)
- 3 Ibuprofen contraindications (unless medical control approved):
 - >400 mg of Ibuprofen or an ibuprofen-containing product within 4 hours
 - Severe renal impairment (dialysis dependent)
 - In the setting of shock or overdose
 - Prescribed anticoagulants (i.e. Warfarin / Factor Xa Inhibitors, etc)
 - Allergy to any NSAID / aspirin
 - Pregnancy (late)

Fever – Pediatric

CRITERIA

Pediatric patient with **any** of the following:

- Temperature >100.4°F (38°C)
- Temperature ≥2°F (1°C) over baseline and suspected infection¹
- Temperature ≥2°F (1°C) over baseline and recipient of a blood / blood product transfusion within the last 4 hours²

EMT

- ABCs and vital signs, to include SpO₂ and temperature[‡]
- Airway management and appropriate oxygen therapy
- Check blood glucose level[‡], if abnormal, see “Hyperglycemia – Pediatric” or “Hypoglycemia – Pediatric”
- If indications of hypoperfusion³ see “Shock – Pediatric: Sepsis / Shock / Hypoperfusion”
- If able to tolerate oral fluid consider one of the following:

Acetaminophen^{‡4} 15 mg / kg PO: (325 mg / 10.15 mL concentration)

Weight in Kgs	mL of Acetaminophen
<2.7	Medical Control
2.7 – 5.0	1.25
5.1 – 7.7	2.5
7.8 – 10.9	3.75
11.0 – 22.3	5
≥22.3	10.15

Ibuprofen^{‡5} 10 mg/kg PO if >6 months age: (100 mg / 5 mL concentration)

Weight in Kgs	mL of Ibuprofen
5.1 – 7.7	2.5
7.8 – 10.9	3.75
11.0 – 22.3	5
≥22.3	10

● EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Additional oral Acetaminophen⁴
- Additional Ibuprofen⁵

Key Points/Considerations

- 1 If fever is due to suspected viral or bacterial infection, see “Sepsis / Shock / Hypoperfusion – Pediatric”
- 2 Diagnostic indications for hypoperfusion include:
 - o Cool / clammy or mottled skin
 - o Inability to recognize parents
 - o Restlessness
 - o Listlessness
 - o Tachycardia

- o Tachypnea
- o Hypotension:

Age	Systolic Hypotension
<1 month	<60 mmHg
1 month to 1 year	<70 mmHg
1 – 10 years	< (70 + 2 x age in years) or <90 mmHg

- 3 Acetaminophen contraindications (unless medical control approved):
 - o Acetaminophen or an Acetaminophen-containing product within 4 hours
 - o Hx of liver problems / acute liver failure
 - o Acute liver inflammation due to hepatitis C virus
 - o In the setting of shock or overdose (especially Acetaminophen overdose)
- 4 Ibuprofen contraindications (unless medical control approved):
 - o >400 mg of Ibuprofen or an Ibuprofen-containing product within 4 hours
 - o Severe renal impairment (dialysis dependent)
 - o In the setting of shock or overdose
 - o Prescribed 'blood thinners' (i.e. Warfarin / Coumadin)
 - o Allergy to any NSAID / Aspirin
 - o Pregnancy (late)

If no length-based tape available, but weight in pounds available:

Weight in Lbs	Weight in Kgs
<6	<2.7
6 – 11	2.7 – 5.0
12 – 17	5.1 – 7.7
18 – 24	7.8 – 10.9
25 – 49	11.0 – 22.3
≥50	≥22.3

Hospice Care

CRITERIA

For patients in a Hospice system when EMS practitioners have been summoned to provide care and possible transportation to the hospital. The patient's goals of care may be unusual or difficult for EMS practitioners. The objective must be compassionately integrate with the patient, family, and Hospice team to alleviate symptoms and provide comfort.

CFR AND ALL PROVIDER LEVELS

- Review goals of care and documentation with family/caregivers and determine what care has already been provided
- Seek root causes and refer to existing protocols where appropriate
- Contact the Hospice team (preferred) or Medical Control consultation to coordinate/facilitate further care including administration of hospice kit medications by caregiver
- Consider paramedic response for additional medication administration

Dyspnea:

- If a fan is available, blow air directly at the patient's face
- Administer oxygen via nasal cannula to relieve shortness of breath and achieve a respiratory rate of < 20 and/or $SpO_2 \geq 92\%$

Oral Secretions:

- Reposition as needed
- Gentle suction as tolerated and as needed
- Consider music or other white noise into patient's environment to reduce noises that the family hears
- If severely distressed, patients may require care at an inpatient hospice facility if available

Terminal Secretions:

- Reassure family that noisy breathing is generally not distressing to the patient
- Suggest administration of medication from the comfort care kit by caregiver

● CFR AND EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Per Medical Control Discussion

Key Points/Considerations

EMS providers should avoid the following interventions:

- Sirens, lights or aggressive interventions
- Cardiopulmonary Resuscitation including ventilations, medications, and electrical therapy if consistent with the patient's wishes (See: "Advanced Directives / DNR / MOLST")
- Hospice patients should not be transported to the hospital unless specifically requested by the patient or their healthcare agent or surrogate, and preferably only after consultation with the hospice team and exhaustion of other treatments that do not require transport to the hospital

PEARLS

- Breakthrough pain management is important in patients with advanced disease. First seek to determine and treat the underlying cause.
- Anxiety (from increased pain and/or shortness of breath) is common in patients nearing death and should be treated promptly.
- Opioid related constipation is a frequent cause of nausea and vomiting. Surgical treatment is often not appropriate.
- Fever and infection treatment should be guided by the patient's dying trajectory and goals of care. Overwhelming sepsis may be a sign of death not to be reversed.
- Confusion / Delirium is common and often caused by a combination of medications, dehydration, infections, or hypoxia. It is distressing to families. It often heralds the end of life and may require sedation. Speak slowly and calmly to the person. Remind the patient of where they are, and who you are. Avoid contradicting the patient's statements. Ensure a patient's hearing aid and glasses are available. Limit activity/noise in the room.
- Suctioning bleeding from the airway may help with family and patient distress if coming from the oropharynx or lungs. Clean the patient as much as possible/reasonable to make the scene less distressing for the family. Utilize dark towels or sheets to cover the patient if possible.
- For terminal dehydration, moisten the patient's lips with petroleum jelly, use artificial saliva/mouth sponges and ice chips

Hyperglycemia – Adult

For pediatric see, “Hyperglycemia – Pediatric”

CFR AND ALL PROVIDER LEVELS

- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- If altered mental status, see “General: Altered Mental Status”

● CFR STOP

EMT

- Check blood glucose level[‡]
 - If high, do not administer oral glucose

● EMT STOP

Hyperglycemia – Pediatric

CFR AND ALL PROVIDER LEVELS

- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- If altered mental status, see “General: Altered Mental Status”

● CFR STOP

EMT

- Check blood glucose level[‡]
 - If high, do not administer oral glucose

● EMT STOP

Hypoglycemia – Adult

For pediatric see, “Hypoglycemia – Pediatric”

CRITERIA

- For patients with known or suspected hypoglycemia
- See as appropriate “General: Altered Mental Status”

CFR AND ALL PROVIDER LEVELS

- Airway management and appropriate oxygen therapy
- See, as necessary:
 - o “Extremis: Respiratory Arrest / Failure – Adult”
 - o “General: Altered Mental Status”
 - o “General: Opioid (Narcotic) Overdose”

● CFR STOP

EMT

- Check blood glucose level[‡]
 - o 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 (15-30grams) of oral glucose, or available sugar source (such as maple syrup, fruit juice or non-diet soda)
 - If the patient is unable to swallow on command, do not administer oral glucose and begin transport
 - o If mental status remains altered following administration of oral glucose, do not delay transport

● EMT STOP

Key Points/Considerations

- 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.
- If the patient’s blood glucose level is below 60 mg/dL and the patient is able to self-administer and swallow on command, administer oral glucose or equivalent
- Diabetic patients may exhibit signs of hypoglycemia with a blood sugar between 60-80 mg/dL.

Hypoglycemia – Pediatric

CRITERIA

- For pediatric patients with known or suspected hypoglycemia

CFR AND ALL PROVIDER LEVELS

- Airway management and appropriate oxygen therapy
- See as necessary:
 - o “Extremis: Respiratory Arrest / Failure – Pediatric”
 - o “General: Altered Mental Status”
 - o “General: Opioid (Narcotic) Overdose”

● CFR STOP

EMT

- Check blood glucose level‡
 - o 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 (15-30 grams) of oral glucose, or available sugar source (such as maple syrup, fruit juice or non-diet soda)
 - If the patient is unable to swallow on command, do not administer oral glucose and begin transport
 - o If mental status remains altered following administration of oral glucose, do not delay transport

● EMT STOP

Key Points/Considerations

1 Preschool aged children and infants may have limited response to Glucagon
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

Obstetrics: Pre-Eclampsia and Eclampsia

CRITERIA

- Pre-eclampsia should be considered during pregnancy or up to 6 weeks post-partum with:
SBP $\geq$ 160 mmHg or DBP $\geq$ 110 mmHg
OR
SBP 140-159 mmHg or DBP 90-109 mmHg with ANY of the following:
severe headache, blurred vision, right upper quadrant or epigastric abdominal pain
- Eclampsia is a new onset seizure in the absence of other causative conditions such as hypoglycemia or drug/alcohol withdrawal occurring during pregnancy or up to 6 weeks postpartum

CFR AND ALL PROVIDER LEVELS

EMT

- ABCs and vital signs, to include blood pressure frequently
- Airway management and appropriate oxygen therapy
- Place a visibly pregnant patient left lateral recumbent or manually displace the uterus leftward



CFR AND EMT STOP

Key Points/Considerations

- Pre-eclampsia and eclampsia should be considered in patients presenting after 20 weeks gestation and up to 6 weeks postpartum.

Obstetrics: Childbirth

CRITERIA

- Childbirth is a natural phenomenon and the type of delivery cannot be regulated by your level of certification – if a 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 (Nuchal Cord)**
 - 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
- Determine the estimated date of expected birth, the number of previous pregnancies and number of live births
- Determine if the amniotic sac (bag of waters) has broken, if there is vaginal bleeding, mucous discharge, or the urge to bear down
- Determine the duration and frequency of uterine contractions
- Examine the patient for crowning:
 - If delivery is not imminent, transport as soon as possible
 - If delivery is imminent, prepare for an on-scene delivery
- If multiple births are anticipated, but the subsequent births do not occur within 10 minutes of the previous delivery, transport immediately
- After delivery of the placenta, massage the lower abdomen
- Take the placenta and any other tissue to the hospital for inspection
- Do not await the delivery of the placenta for transport
- If uterine inversion occurs (uterus turns inside out after delivery and extends through the cervix), treat for shock and transport immediately. If a single attempt to replace the uterus fails, cover the exposed uterus with moistened sterile towels.

Obstetrics: 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:

- Wait at least one minute after delivery to clamp the umbilical cord with two clamps, three inches apart, and cut the cord between them. The first clamp should be 8 – 10 inches from the baby. Place the second clamp 3 inches from the first clamp toward the mother.
- Place the infant immediately on the mother's bare chest.
- Cover the infant's scalp with an appropriate warm covering
- Once preparing for transport, 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 respirations.

If the infant is not breathing spontaneously or not crying vigorously:

- Vigorously 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 30 – 60 breaths/minute with an appropriate bag-valve-mask (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 the pulse rate is <60 beats per minute at any time:

- Perform chest compressions with assisted ventilations at a 3:1 compression to ventilation ratio



CFR, EMT STOP

Key Points/Considerations

- Hypothermia and hypoglycemia may decrease the likelihood of successful resuscitation
- Begin transport to the closest appropriate hospital as soon as possible

Obstetrics: Hemorrhagic Shock

CRITERIA

- For management of excessive bleeding (> 1 Liter) up to 24 hours after delivery

CFR AND ALL PROVIDER LEVELS

EMT

- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- Firmly massage the uterine fundus
- If perineal (external vaginal lacerations) are present, apply direct pressure to the perineum with sterile dressings. ***Do not place gauze or dressings inside the vagina.***
- **CFR AND EMT STOP**

Opioid (Narcotic) Overdose

Applies to adult and pediatric patients

CRITERIA

- For the evaluation and management of patients with suspected opiate overdose and respiratory insufficiency (hypoventilation, slow, shallow, or ineffective respirations)

CFR AND ALL PROVIDER LEVELS

- ABCs, vital signs
- Airway management and appropriate oxygen therapy
- Ongoing assessment of the effectiveness of breathing, see as necessary:
 - o “Extremis: Respiratory Arrest / Failure – Adult”
 - o “Extremis: Respiratory Arrest / Failure – Pediatric”
 - o “General: Altered Mental Status”
- For suspected opioid overdose **and** respiratory insufficiency or respiratory arrest:
 - o Administer one naloxone (Narcan) prefilled unit dose intranasal^{‡1}
 - May repeat once in 5 minutes, if no improvement in respiratory effort

● CFR STOP

EMT

- Check blood glucose level[‡], if known or suspected to be below 60 mg/dL, see “Hypoglycemia – Adult” or “Hypoglycemia – Pediatric”

● EMT STOP

Key Points/Considerations

1 Unit dose prefilled Naloxone (Narcan) may not exceed 4 mg unless REMAC and DOH BEMS approved. Prefilled syringe with mucosal atomizer device is considered equivalent.

Nausea and/or Vomiting – Adult

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

CRITERIA

- For the prevention and treatment of nausea and/or vomiting in adults

CFR AND ALL PROVIDER LEVELS

EMT

- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- Patients may be given an isopropyl alcohol pad for self-administered inhalation

- **CFR AND EMT STOP**

Nausea and/or Vomiting – Pediatric (≥ 2 y/o)

CRITERIA

For the prevention and treatment of nausea and/or vomiting in children ≥ 2 years of age

CFR AND ALL PROVIDER LEVELS

EMT

- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- Patients may be given an isopropyl alcohol pad for self-administered inhalation

● CFR, AND EMT STOP

Organophosphate – CHEMPACK Program

Applies to adult and **SOME** pediatric patients

CRITERIA

- This protocol is for delivering medications associated with the CHEMPACK Program
- The CHEMPACK may be requested by any level practitioner for one or more patients with signs or symptoms of organophosphate/nerve agent toxicity
- Signs and symptoms of organophosphate/nerve agent toxicity include any of:
 - SLUDGEM: Salivation-Lacrimation-Urination-Diarrhea-GI Distress-Emesis-Muscle Twitching-Miosis
- Consult medical control before administering medications in this protocol to children younger than 8 years of age

EMT

- Don appropriate PPE and decontaminate as needed
- Contact dispatch to declare an incident and request appropriate response, including ALS
- Request CHEMPACK Program Antidote Kits
- Consider requesting an EMS physician to scene
- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- Ongoing assessment of the effectiveness of breathing, see as necessary:
 - “Extremis: Respiratory Arrest / Failure – Adult”
 - “Extremis: Respiratory Arrest / Failure – Pediatric”
- Administer antidotes as follows to adults and children 8 years and older¹ based on signs and symptoms and using a route within your scope of practice and training. Atropine **MUST** be administered first:

Signs and Symptoms	Atropine Dose ^{2, 3}	Pralidoxime (2-PAM) Dose ^{2, 3, 4}	Diazepam or Midazolam Dose ^{2, 5}	Monitoring Frequency
SEVERE + SEIZURES SLUDGEM + Respiratory Distress Agitation/Confusion	6 mg IM/IV	1,800 mg IM/IV	10 mg IM 5 mg IV	Every 5 min
SEVERE SLUDGEM + Respiratory Distress Agitation/Confusion	6 mg IM/IV	1,800 mg IM/IV	None	Every 5 min
MODERATE SLUDGEM	4 mg IM/IV	600 mg IM/IV	None	Every 10 min
ASYMPTOMATIC No symptoms	None	None	None	Every 15 min

● EMT STOP

Key Points/Considerations

- 1 Pediatric patients should be decontaminated and have expedited transport off scene, especially if they are demonstrating ANY signs or symptoms. Contact medical control before administering CHEMPACK medications to children younger than 8 years of age.

- 2 CHEMPACK medications may come in prefilled autoinjectors, however the dose of each autoinjector may vary. Practitioners must sum the dose in each autoinjector and should administer enough autoinjectors and/or vials to achieve the total dose identified in the treatment table.
- 3 All levels may administer Atropine and Pralidoxime using autoinjector. Combination autoinjectors (such as DuoDote®) that contain both Atropine and Pralidoxime (2-PAM) together may be used in place of the autoinjectors that contain the individual drugs.
 - CHEMPACK medications may be used regardless of the expiration date
 - CHEMPACK medications are NOT to be used for prophylaxis

Pain Management – Adult

For pediatric see, “Pain Management – Pediatric”

CFR AND ALL PROVIDER LEVELS

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

● CFR STOP

EMT

- If able to tolerate oral fluid, consider one of the following:[‡]
 - Acetaminophen² up to 1000 mg
 - Ibuprofen³ up to 400 mg

● EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Additional Acetaminophen or Ibuprofen PO[‡]

Key Points/Considerations

- 1 Acetaminophen contraindications (unless medical control approved):
 - >650 mg of acetaminophen or an acetaminophen-containing product within 4 hours
 - Hx of liver problems / acute liver failure
 - Acute liver inflammation due to hepatitis C virus
 - In the setting of shock or overdose (especially acetaminophen overdose)
- 2 Ibuprofen contraindications (unless medical control approved):
 - Severe renal impairment (dialysis dependent)
 - In the setting of shock or overdose
 - Prescribed “blood thinners” (i.e. Warfarin / Coumadin)
 - Allergy to any NSAID / aspirin
 - Age >60
 - Pregnant
 - Are actively bleeding
 - Are presenting with chest pain or a suspected acute coronary syndrome

Pain Management – Pediatric

CFR AND ALL PROVIDER LEVELS

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

● CFR STOP

EMT

- If able to tolerate oral fluid consider one of the following: ‡

Acetaminophen¹ 15 mg / kg PO (325 mg / 10.15 mL concentration):

Weight in Kgs	mL of Acetaminophen
<2.7	Medical Control
2.7 – 5.0	1.25
5.1 – 7.7	2.5
7.8 – 10.9	3.75
11.0 – 22.3	5
≥22.3	10.15

Ibuprofen² 10 mg/kg PO (100 mg / 5 mL concentration) if >6 months of age:

Weight in Kgs	mL of Ibuprofen
5.1 – 7.7	2.5
7.8 – 10.9	3.75
11.0 – 22.3	5
≥22.3	10

● EMT STOP

Key Points/Considerations

- 1 Acetaminophen contraindications (unless medical control approved):
 - o Hx of liver problems / acute liver failure
 - o Acute liver inflammation due to hepatitis C virus
 - o In the setting of shock or overdose (especially acetaminophen overdose)
 - 2 Ibuprofen contraindications (unless medical control approved):
 - o Severe renal impairment (dialysis dependent)
 - o In the setting of shock or overdose
 - o Prescribed “blood thinners” (i.e. Warfarin / Coumadin)
 - o Allergy to any NSAID / aspirin
 - o Pregnancy (late)
 - o Are actively bleeding
- o If no length-based tape available, but weight in pounds available:

Weight in Lbs	Weight in Kgs
<6	<2.7
6 – 11	2.7 – 5.0
12 – 17	5.1 – 7.7
18 – 24	7.8 – 10.9
25 – 49	11.0 – 22.3

≥ 50	≥ 22.3
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Poisoning / Overdose – Adult: Undifferentiated

For pediatric see, “Poisoning / Overdose – Pediatric: Undifferentiated”

CRITERIA

- This protocol is intended for the undifferentiated toxic exposure. See the following as clinically appropriate for specific suspected toxidromes:
 - For altered mental status, see “General: Altered Mental Status”
 - For opioid overdose, see “General: Opioid (Narcotic) Overdose”
 - For carbon monoxide, see “General: Carbon Monoxide Exposure – Suspected”
 - For smoke inhalation, see “General: Smoke Inhalation / Cyanide Poisoning – Symptomatic”
 - For organophosphate, if multiple patients or suspected nerve agent, see “General: Organophosphate CHEMPACK”

CFR AND ALL PROVIDER LEVELS

- Decontamination, as needed
- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- Determine what and how much was taken, along with the time, if possible
- For contamination of the skin or eyes, see “Trauma: Burns” or “Trauma: Eye Injuries”

● CFR STOP

EMT

- Check blood glucose level[‡], if known or suspected to be below 60 mg/dL, see “General: Hypoglycemia – Adult”

● EMT STOP

Key Points/Considerations

- Take precautions to assure providers do not get exposed
- For inhalation exposures, assure patient is moved to fresh air

Poisoning / Overdose – Pediatric: Undifferentiated

CRITERIA

- This protocol is intended for the undifferentiated toxic exposure. See the following as clinically appropriate for specific suspected toxidromes:
 - For altered mental status, see “General: Altered Mental Status”
 - For opioid overdose, see “General: Opioid (Narcotic) Overdose”
 - For carbon monoxide, see “General: Carbon Monoxide Exposure – Suspected”
 - For smoke inhalation, see “General: Smoke Inhalation / Cyanide Poisoning – Symptomatic”
 - For organophosphate, if multiple patients or suspected nerve agent, see “General: Organophosphate CHEMPACK”

CFR AND ALL PROVIDER LEVELS

- Decontamination, as needed
- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- Determine what was taken, when and how much, if possible
- For contamination of the skin or eyes, see “Trauma: Burns” or “Trauma: Eye Injuries”

● CFR STOP

EMT

- Check blood glucose level[‡], if known or suspected to be below 60 mg/dL, see “General: Hypoglycemia – Pediatric”

● 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 – Adult

For pediatric see, “Seizures – Pediatric”

CFR AND ALL PROVIDER LEVELS

- 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 and avoid unnecessary restraint
- Ongoing assessment of the effectiveness of breathing
 - See “Extremis: Respiratory Arrest / Failure – Adult” if necessary
- Assist patient with their own medications
 - See “Resources: Prescribed Medication Assistance”

● CFR STOP

EMT

- Check blood glucose level[‡], if known or suspected to be below 60 mg/dL, see “General: Hypoglycemia – Adult”

● EMT STOP

Key Points/Considerations

- 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.

Seizures – Pediatric

CFR AND ALL PROVIDER LEVELS

- 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 and avoid unnecessary restraint
- Ongoing assessment of the effectiveness of breathing
 - See "Extremis: Respiratory Arrest / Failure – Pediatric" if necessary
- Assist patient with their own medications
 - See "Resources: Prescribed Medication Assistance"

● CFR STOP

EMT

- Check blood glucose level[‡], if known or suspected to be below 60 mg/dL, see "General: Hypoglycemia – Adult"

● EMT STOP

Key Points/Considerations

- 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.
- Consult medical control, if seizures persist, as soon as possible

Shock – Adult: Hemorrhagic Shock

For pediatric see, “Shock - Pediatric: Sepsis / Shock / Hypoperfusion”

CFR AND ALL PROVIDER LEVELS

EMT

- ABCs and vital signs
- Airway management and appropriate oxygen therapy
 - Oxygen administration is encouraged even without hypoxia if a traumatic brain injury is suspected
- Position the patient in a supine position if possible

● CFR AND EMT STOP

Shock – Adult: Shock / Hypoperfusion

For pediatric see, “Shock – Pediatric: Shock / Sepsis / Hypoperfusion”

CRITERIA

- This protocol *excludes* hemorrhagic, septic, and cardiogenic shock
 - For trauma, see “Shock – Adult: Hemorrhagic Shock”
 - For septic shock, see “General: Severe Sepsis / Septic Shock”
 - For cardiogenic shock, see “General: Cardiogenic Shock – Adult”

CFR AND ALL PROVIDER LEVELS

- ABCs and vital signs
- Airway management and appropriate oxygen therapy
- Administer supplemental oxygen; see “Resource: Oxygen Administration and Airway Management”

● CFR STOP

EMT

- Check blood glucose level[‡], if known or suspected to be below 60 mg/dL, see “General: Hypoglycemia – Adult”

● 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

Shock – Adult: Severe Sepsis / Septic Shock

For pediatric see, “Shock – Pediatric: Shock / Sepsis / Hypoperfusion”

CRITERIA

- For use in an adult patient with **both** of the following:
 - Suspected infection
 - Hypotension (systolic BP <100 mmHg) **OR** altered mental status

CFR AND ALL PROVIDER LEVELS

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

● CFR STOP

EMT

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

● EMT STOP

Key Points/Considerations

- 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
- Additional indicators of infection include any 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 cells/mm³ **or** <4,000 cells/mm³ or >10% bands, if available
- Vitals should be frequently assessed during transport to avoid prehospital over-hydration
- Focus on rapid identification and early notification of concern for potential septic shock patient to destination facility

Shock – Pediatric: Sepsis / Shock / Hypoperfusion

CRITERIA

- For patients with hypoperfusion¹ because of trauma, bleeding, vomiting, diarrhea, or sepsis
- Septic pediatric patients are those with suspected infection and 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-dependent²) and/or high respiratory rate (age-dependent²) with:
 - Poor perfusion (capillary refill >3 seconds, decreased peripheral pulses, distal extremity [hands/feet] coolness and dusky color, or age-dependent² 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 give high flow oxygen, non-rebreather mask, as tolerated
- If the patient has altered mental status, see “General: Altered Mental Status”
- Attempt to maintain normal body temperature

● CFR STOP

EMT

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

● EMT STOP

Key Points/Considerations

- 1 Diagnostic indications for hypoperfusion include: cool / clammy or mottled skin, inability to recognize parents, restlessness, listlessness, tachycardia, tachypnea, systolic BP <70 mmHg (2 years and older), or systolic BP <60 mmHg (less than 2 years old)
- 2 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
- Consult medical control if you suspect cardiogenic shock
- Sepsis / septic shock is a life-threatening condition in children and must be recognized and treated as rapidly as possible
- Communication with the destination hospital is critical so that they can prepare to treat the child aggressively

Smoke Inhalation / Cyanide Poisoning – Symptomatic

Applies to adult and pediatric patients

CFR AND ALL PROVIDER LEVELS

- ABCs and vital signs
- Oxygen via non-rebreather mask at 15 LPM

● CFR STOP

EMT

- Apply a carbon monoxide monitor,[‡] if >5%, see “General: Carbon Monoxide Exposure – Suspected”
- If there is respiratory distress and no soot in the airway, consider CPAP[‡] 5-10 cm H₂O (if the device delivers 100% oxygen) for adult patients or older pediatric patients as equipment size allows

● EMT STOP

Key Points/Considerations

- Hydroxycobalamin (CyanoKit) is not available in all ambulances, and may not be available in all regions. It may be available for response to scenes through County Fire, EMS Coordinators, or as otherwise regionally established
- Suspect cyanide toxicity in patients who were in enclosed spaces during a fire, have soot in their nares or oropharynx, and exhibit altered mental status
- Disorientation, confusion, and severe headache are potential indicators of cyanide poisoning IN THE SETTING of smoke inhalation
- Hypotension without other obvious cause IN THE SETTING of smoke inhalation increases the likelihood of cyanide poisoning. Do not delay transport awaiting a Hydroxycobalamin (CyanoKit); it is available in most EDs.

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
- 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 Scale¹ and any other regionally approved and indicated stroke scale or stroke severity tool
- Check blood glucose level[‡], if known or suspected to be below 60 mg/dL, see “General: Hypoglycemia – Adult” or “General: Hypoglycemia – Pediatric”
- If time from last known well or time of symptom onset to estimated arrival in the ED will be less than 3.5 hours, unless otherwise regionally designated, transport the patient to a NYS DOH Designated Stroke Center, or consult medical control to discuss an appropriate destination facility
- Follow any local or regional guidelines for triage of stroke patients to centers with endovascular capabilities, if available
- Notify the destination hospital ASAP
- Do not delay transport

● EMT STOP

Key Points/Considerations

- 1 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
- Make sure to collect family or witness contact information to assist with hospital care
- Make sure to record Last Known Well and who reported that information as part of your verbal report at the hospital and in your written documentation
- “**Time of Symptom Onset**” is also a key piece of information if available from witnesses
- For pediatric patient with symptoms of acute stroke, contact medical control for transport decision to the most appropriate facility

Technology Assisted Children

CRITERIA

- Children with special health care needs requiring technological assistance for life support including, but not limited to:
 - 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, give high flow oxygen via non-rebreather mask, if needed
- Supportive measures (device-specific):
 - Tracheostomy:
 - If on ventilator and there are respiratory concerns, disconnect and attempt to ventilate via tracheostomy adapter using a bag-valve-mask
 - If tracheostomy tube is fully or partially dislodged, remove it, cover tracheostomy stoma with an occlusive dressing, and ventilate via mouth and nose using a bag-valve-mask
 - 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 hospital ASAP and state that the patient has special health care needs that requires technological assistance (be specific)
- Obtain frequent vital signs, including blood pressure

● EMT STOP

Key Points/Considerations

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

(4.0) Trauma

Trauma General

Applies to adult and pediatric patients

Key Points/Considerations

- Traumatic arrest patient: see “Extremis: Obvious Death”. If the patient does not meet criteria of obvious death as defined in the protocol, refer to the appropriate cardiac arrest protocol.
- Trauma patients meeting criteria for transport to a trauma center go to closest appropriate trauma center, see “Trauma: Trauma Patient Destination”
- For spinal motion restriction guidelines, see “Trauma: Suspected Spinal Injuries”
- 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
- **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

Amputation

Applies to adult and pediatric patients

CFR AND ALL PROVIDER LEVELS

- See as indicated “Bleeding / Hemorrhage Control”
- ABCs and vital signs
- Elevate and wrap the stump with moist sterile dressings and cover with dry bandage
- Consider spinal motion restriction, see “Trauma: Suspected Spinal Injuries”
- 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 STOP

EMT

- If delayed extrication or arrival to definitive care, consider:
 - Moxifloxacin 400 mg PO[±] as regionally approved (Adults only)

● EMT, ADVANCED, CC AND PARAMEDIC STOP

Key Points/Considerations

- Transport the amputated part with the patient, if possible, but do not delay transport to search for amputated part
- Distal amputations (those distal to wrist or ankle) do not typically require a trauma center
- 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
- Re-implant the tooth firmly into its socket with digital pressure
- Have the patient hold the tooth in place using gauze and bite pressure
- Report to hospital staff that a tooth has been re-implanted

● 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, 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

CFR AND ALL PROVIDER LEVELS

- Immediate intervention for severe bleeding:
 - Apply pressure directly on the wound with a dressing
 - Consider rolled or hemostatic gauze[‡] to pack the wound and hold pressure for at least three minutes or until bleeding stops
 - 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 followed by direct pressure and a pressure dressing
- Immediate intervention for uncontrollable bleeding from an extremity:
 - Place tourniquet 2-3 inches proximal to the wound
 - If bleeding continues, 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
- See “Shock – Adult: Hemorrhagic Shock” or “Sepsis / Shock / Hypoperfusion – Pediatric,” as indicated

● CFR STOP

EMT

- Tourniquet Conversion may be performed on a non-amputated extremity as follows:
 - Apply a pressure dressing to the wound
 - Slowly release the windlass and monitor for re-bleeding:
 - If re-bleeding occurs, re-tighten the tourniquet
 - If no bleeding occurs, release the tourniquet completely but leave in place and monitor the dressing for re-bleeding until facility arrival

● EMT STOP

Key Points/Considerations

- Hemodialysis access sites may result in life threatening hemorrhage. Direct digital pressure should be used first followed by application of a pressure dressing.
- When extremity bleeding sites cannot be rapidly determined, tourniquets should be placed “high and tight” in accordance with training
- 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
- A tourniquet may be placed by other agencies prior to EMS arrival. The transporting EMS provider should evaluate the wound and determine if there is arterial bleeding that requires a tourniquet and may choose to convert a tourniquet as above.

- 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

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 see as necessary “General: Carbon Monoxide Exposure – Suspected”

● 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
- Consider other injuries, including cardiac dysrhythmias
- Consider smoke inhalation and airway burns
 - Administer high flow oxygen
 - Oxygen saturation readings may be falsely elevated
- If hazardous material involvement is suspected, immediately notify the destination hospital to allow for decontamination
- The whole area of the patient's hand (palm plus digits) 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 as 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
 - A sucking chest wound occurs when air passes through a wound in the chest wall when the patient breathes in
- Contact the receiving hospital as soon as possible

● CFR AND EMT STOP

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

- 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, see “Trauma: Burns”

● 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, see “Trauma: Suspected Spinal Injuries”
- See as indicated “Trauma: Bleeding / Hemorrhage Control,” “Shock – Adult Hemorrhagic Shock,” “General: Sepsis / Shock / Hypoperfusion – Pediatric”
- 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 splint 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
 - Traction splint may be used for suspected proximal femur fracture **only** if manufacturer approved
 - 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 fracture¹
- Continue ongoing assessment of vital signs and distal pulse, motor, and sensory function
- See “Pain Management – Adult” or “Pain Management – Pediatric”
- If open fracture² with delayed extrication or arrival to definitive care, consider:
 - Moxifloxacin 400 mg PO[±] as regionally approved (Adults only)

● EMT, ADVANCED, CC AND PARAMEDIC STOP

Key Points/Considerations

- 1 Physical examination for unstable pelvis fractures is unreliable and stabilization of the pelvis is indicated based on the mechanism of injury
- 2 Consider any open wound near the suspected bone injury site to be the result of bone protrusion

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 present, 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, consider placing the entire knee joint in a knee immobilizer or splint
- Consider “General: Pain Management – Adult” or “General: Pain Management – Pediatric” as indicated

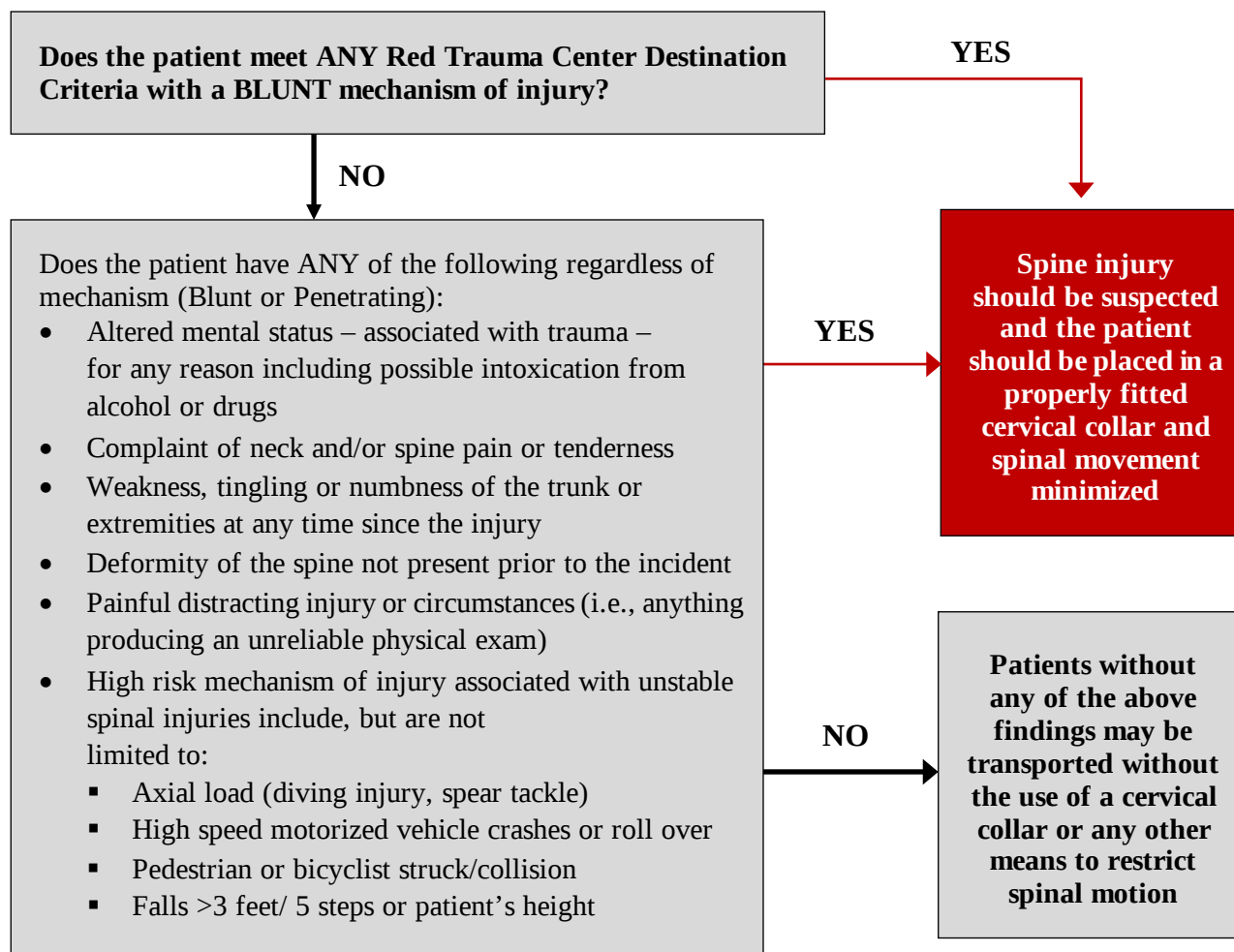
● EMT STOP

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
- Patients usually feel significantly better after reduction, but they still need transport to a hospital for further evaluation and possible treatment

Suspected Spinal Injuries

Applies to adult and pediatric patients



Key Points/Considerations

- These guidelines should be used with caution in patients over age 65
- Spinal movement can be minimized by application of a properly fitting rigid cervical collar and securing the patient to the EMS stretcher
- Consider elevating the head of the stretcher no more than 30 degrees if concern for head injury
- 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
• 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	All Patients • 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% Age 0-9 years • SBP < 70mm Hg + (2 x age in years) Age 10-64 years • SBP < 90 mmHg or • HR > SBP Age ≥ 65 years • 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
• High-Risk Auto Crash - Partial or complete ejection - Significant intrusion (including roof) • >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)	Consider risk factors, including: • 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 If concerned, take to a trauma center

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)

(5.0) Resources

Advance Directives / DNR / MOLST

Applies to adult and pediatric patients

CRITERIA

- For patients who have expressed their healthcare wishes through a MOLST, eMOLST, or nonhospital Do Not Resuscitate (DNR) Order
- For patients who lack medical decision-making capacity and a Health Care Agent is present

CFR AND ALL PROVIDER LEVELS

EMT

- For patients with medical decision-making capacity, their wishes are to be followed in accordance with standard consent procedures
- For patients without medical decision-making capacity, 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
 - Properly documented nursing home or nonhospital DNR form
- If MOLST, eMOLST, or DNR is *not present* – begin standard treatment, per protocol
- If MOLST, eMOLST, or DNR 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 written advanced directives not mentioned above are present (e.g. living will), contact medical control for direction
- If the patient lacks medical decision-making capacity and their Health Care Agent is present, follow the wishes of the Health Care Agent. If there are concerns or conflict, 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 or concerns or conflict with the Health Care Agent

Key Points/Considerations

- All medical orders indicated on the MOLST or eMOLST should be honored, including the medical order for the patient not to be transported to the hospital
- A MOLST is still valid if properly executed regardless of the date of signature
- A copy of the original MOLST is a valid set of medical orders, similarly the eMOLST form may be printed and contains electronic signatures which are considered valid
- Whenever possible, a copy of the DNR, MOLST, or eMOLST form should be attached to the PCR
- 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 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.

- While this protocol refers to MOLST, Portable Medical Orders (POLST) exist in other states as well. This protocol acknowledges out-of-state POLST forms which, although may vary slightly in format, are to be honored by EMS clinicians as a set of medical orders equivalent to the MOLST.
- Public Health Law PBH §2944-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 §2944-ee, or for other actions taken reasonably and in good faith.

APGAR

	0 pt	1 pt	2 pts
Appearance	Blue	Pink Body Blue Limbs	All Pink
Pulse	Absent	<100	>100
Grimace/Reflex	None	Grimace	Cough/Sneeze
Activity	Limp	Some Flexion	Active Motion
Respirations	Absent	Slow/Irregular	Good

Automatic Transport Ventilator[‡]

Applies to adult and pediatric patients

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

General Parameters

FiO₂: Maintain SaO₂ ≥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 cm H₂O, 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

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 bag-valve-mask (BVM) for emergent use in case of a ventilator failure
- Assure a secondary oxygen source with a minimum of 1000 psi 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 ≥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/Considerations

- 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 bag-valve-mask (BVM) 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:
 - o NYS Child Abuse and Maltreatment Register: 1-800-635-1522
 - o This is a hotline number for mandated reporters only, not the public
- All oral reports must be followed up with a written report within 48 hours, using form DSS-2221-A, “Report of Suspected Child Abuse or Maltreatment”, and sent to the appropriate agency

Key Points/Considerations

- Notifying hospital staff of concern for child abuse or maltreatment is *not* sufficient to meet the obligation of reporting. *All* of these steps are required:
 - o PCR completion
 - o Notification of emergency department staff
 - o Oral report to NYS Child Abuse and Maltreatment Register
 - o 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 of all levels may be faced with situations that will benefit from these techniques
- Some of these techniques will be more applicable for some situations than others
- Resources and location will determine how these can be employed

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

- Place limits on unacceptable behaviors and specific praise for adherence to requests
- Use 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)

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

Medication Formulary

Minimum quantities of medications shall be determined by the respective REMAC.

Included in this formulary are any optional medications (Signified by ‡) that may be used pursuant to these protocols if equipped and trained, and may be subject to REMAC authorization.

Also included are medications that may be used as an alternative in cases of temporary shortage or unavailability. Any use of a “REMAC Alternative” medication requires REMAC approval and Bureau of EMS notification and is intended to be temporary while awaiting availability.

Any desire to use a “NYS Alternative” requires REMAC approval of the desired medication and written request and approval by the New York State Bureau of EMS and Trauma prior to use. Again, such alternatives are intended to be temporary while awaiting availability.

Any use of an alternative requires the agency to identify the drug, dose, route, replacement indication and contraindications and provide training on the medication to its practitioner’s that is approved in advance by the respective REMAC.

Medication	Administration Route(s)	REMAC Alternative(s)	NYS Alternative(s)
Acetaminophen‡	PO		
Albuterol‡	Nebulized	Duo-Neb, Levalbuterol	Any inhaled bronchodilator
Aspirin‡	PO		
Epinephrine 1:1,000 (1 mg/mL) ‡	IM		
Glucose, oral	PO		
Ibuprofen‡	PO		
Ipratropium (Atrovent) ‡	Nebulized	Duo-Neb	
Moxifloxacin‡	PO		Any oral quinolone
Naloxone (Narcan) ‡	Intranasal	Naloxone (Kloxxado) 8 mg formulation;	Any intranasal opioid antagonist

Needlestick / Infectious Exposure

Applies to adult and pediatric patients

CRITERIA

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

Cleansing for a Puncture Wound

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

Cleansing for Skin Contact

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

Cleansing for Mucous Membranes

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

Key Points/Considerations

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

Normal Vital Signs for Infants / Children

	Normal Respiratory Rate	Normal Pulse Rate	Lower Limit of Normal Systolic BP
Infant (<1yr):	30- 60	100 - 160	>60 (or strong pulses)
Toddler (1-3yr):	24 - 40	80 - 130	>70 (or strong pulses)
Preschooler(4-5yr):	22 - 34	80 - 140	>75
School-age(6-12yr):	18 - 30	70 - 120	>80
Adolescent(13-18yr):	12 - 20	60 - 100	>90
		Pulse slower in sleeping child/athlete	(Estimated min SBP >70 +2 x Age in Yr)

Oxygen Administration and Airway Management

Applies to adult and pediatric patients

CRITERIA

- Providers may operate as outlined below. They may not exceed their scope of practice, even with direct online medical control.

CFR AND ALL PROVIDER LEVELS

- Ongoing assessment of the effectiveness of breathing
 - See as necessary “Extremis: Respiratory Arrest / Failure – Adult” or “Extremis: Respiratory Arrest / Failure – Pediatric”
- Oxygen therapy via non-rebreather mask 10-15 LPM, or nasal cannula 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, see “General: Carbon Monoxide Exposure – Suspected”
- Oxygen therapy using bag-valve-mask 15-25 LPM
- Appropriate BLS airway adjuncts
- Bag-valve-mask assisted ventilation

● CFR STOP

EMT

- Oxygen powered nebulizer devices for use in accordance with manufacturer specifications (typically ~6-8 LPM)
- Supraglottic airway placement[‡] in cardiac arrest patients (as regionally approved)
- Consider PEEP 5 cm H₂O titrated up to 10 cm H₂O
- Portable automated transport ventilators (ATV)[‡]
 - See “Resource: Automatic Transport Ventilator”

● EMT STOP

MEDICAL CONTROL CONSIDERATIONS

Additional PEEP >10 cm H₂O provided MAP maintained >65 mmHg

Key Points/Considerations

- Oxygen should be titrated to maintain saturation at or just above 92% 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.
- Blow-by oxygen administration may be required in some cases

- Providers may only place a supraglottic airway if they utilize waveform capnography for initial and ongoing monitoring of airway patency

Pediatric Assessment Triangle

GENERAL IMPRESSION (First View of Patient)

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. Moves extremities well.

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.

CIRCULATION TO SKIN
(Color/Obvious Bleeding)

Abnormal: Cyanosis, mottling, paleness/pallor or obvious significant bleeding.

Normal: Color appears normal for racial group of child. No significant bleeding.

DECISION/ACTION POINTS:

- Any abnormal findings or life-threatening chief complaint such as major trauma/burns, seizures, diabetes, asthma attack, airway obstruction, etc (urgent) – proceed to Initial Assessment. Contact ALS if ALS not already on scene/enroute.
- All findings normal (non-urgent) – proceed to Initial Assessment.

INITIAL ASSESSMENT (Primary Survey)

AIRWAY AND APPEARANCE
(Open/Clear – Mental Status)

Abnormal: Obstruction to airflow. Gurgling, stridor, or noisy breathing. Verbal, Pain, or Unresponsive on AVPU scale.

Normal: Clear and maintainable. Alert on AVPU scale.

WORK OF BREATHING
(Effort / Sounds / Rate / Central Color)

Abnormal: Presence of retractions, nasal flaring, stridor, wheezes, grunting, gasping or gurgling. Respiratory rate outside normal range. Central cyanosis.

Normal: Easy, quiet respirations. Respiratory rate within normal range. No central cyanosis.

CIRCULATION
(Pulse Rate & Strength / Extremity Color & Temperature / Capillary Refill / Blood Pressure)

Abnormal: Cyanosis, mottling, or pallor. Absent or weak peripheral or central pulses; Pulse or systolic BP outside normal range; Capillary refill > 2 sec with other abnormal findings.

Normal: Color appears normal for racial group of child. No significant bleeding

DECISION/ACTION POINTS:

- Any abnormal finding (C, U, or P) – Immediate transport with ALS. If ALS is not immediately available, meet ALS intercept enroute to hospital or proceed to hospital if closer. Open airway & provide O2. Assist ventilations, start CPR, suction, or control bleeding as appropriate. Check for causes such as diabetes, poisoning, trauma, seizure, etc. Assist patient with prescribed bronchodilators or epinephrine auto-injector or administer meds if approved and appropriate.
- All findings on assessment of child normal (S) – Continue assessment, detailed history & treatment at scene or enroute.

	Normal Respiratory Rate	Normal Pulse Rate	Lower Limit of Normal Systolic BP
Infant (<1yr):	30- 60	100 - 160	>60 (or strong pulses)
Toddler (1-3yr):	24 - 40	80 - 130	>70 (or strong pulses)
Preschooler(4-5yr):	22 - 34	80 - 140	>75
School-age(6-12yr):	18 - 30	70 - 120	>80
Adolescent(13-18yr):	12 - 20	60 - 100	>90
		Pulse slower in sleeping child/athlete	(Estimated min SBP >70 +2 x Age in Yr)

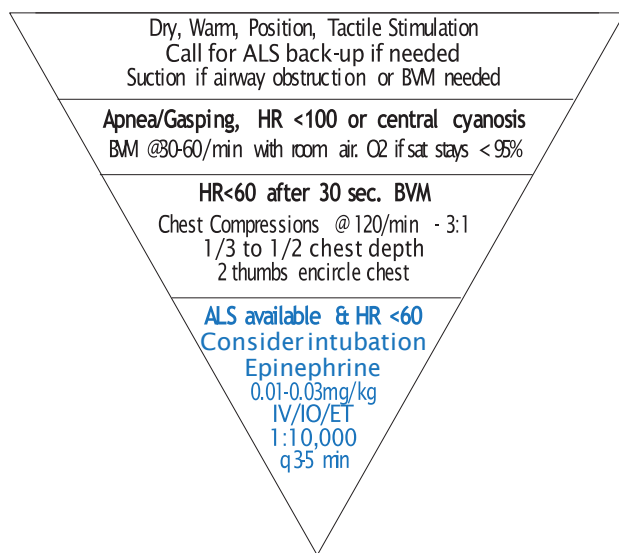
This reference card should NOT replace or supersede regional prehospital medical treatment protocols.

Paid for by HRSA Emergency Services for Children State Partnership grant 6H33MC06724

APGAR Score

	0 pt	1 pt	2 pts
Appearance	Blue	Pink Body Blue Limbs	All Pink
Pulse	Absent	<100	>100
Grimace/Reflex	None	Grimace	Cough/Sneeze
Activity	Limp	Some Flexion	Active Motion
Respirations	Absent	Slow/Irregular	Good

Neonatal Resuscitation



Glasgow Coma Score

Infants	Children/Adults
Eye Opening	
Spontaneous	4 Spontaneous
To speech/sound	3 To speech
To pain	2 To pain
No response	1 No response
Verbal Response	
Coos or babbles	5 Oriented
Irritable crying	4 Confused
Cries to pain	3 Inappropriate words
Moans to pain	2 Incomprehensible
None	1 None
Motor Response	
Spontaneous	6 Obeys commands
Withdraws touch	5 Localizes pain
Withdraws pain	4 Withdraws pain
Abnormal flexion	3 Abnormal flexion
Abnormal extension	2 Abnormal extension
No response	1 No response

Respiratory or Cardiac Arrest

	Infant	Child	Adol/Adult
Vent Rate Patient with pulses	20-30/min	20-30/min	10/min
Compress Method	Encircle or 1 hand	1 or 2 hands	2 hands
Depth	1/3 (1 1/2 in)	1/3 (2 in)	2 - 2.4 in
Compress Rate	100-120 per minute		
C:V Ratio (2 people)	15:2	15:2	30:2

Push HARD & FAST, allow full chest RECOIL!

CPR Notes

- Start CPR for cardiac arrest or HR<60 with poor perfusion.
- Prefer AED with pediatric capabilities if patient <25kg/<55lb or <8 yr. May use adult AED if unavailable.
- Do not pause CPR for more than 10 sec. at any time.
- After advanced airway insertion, ventilate continuously: infant/child at 20-30/min; adolescent/adult 10/min
- After defibrillation, immediately resume CPR for 2 full minutes before pulse/rhythm check.
- Use Adolescent/Adult protocols for patients with clear signs of puberty (eg., facial hair, obvious breasts, acne, axillary hair, adult appearance/size, etc.)

This reference card should NOT replace or supersede regional prehospital medical treatment protocols.

Paid for by HRSA Emergency Services for Children State Partnership grant 6H33MC06724

Prescribed Medication Assistance

Applies to adult and pediatric patients

CRITERIA

- To provide assistance to patients or caregivers of patients who require help with emergency medication(s) that they, or people in their care, are prescribed

CFR AND ALL PROVIDER LEVELS

EMT

- Administration of any patient-prescribed medication, for the condition it is prescribed for, using a route of administration within the practitioners scope of practice. Examples include, but are not limited to:
 - o Sublingual Nitroglycerin for patients with chest pain
 - o Inhalers (Albuterol¹ or other beta-agonists) for patients with asthma or COPD
 - o Diazepam (Diastat) for children or adults with seizures or special needs
 - o Epinephrine autoinjectors for treatment of anaphylaxis
 - o Naloxone (Narcan[®]) via autoinjector or intranasal device

● CFR AND EMT STOP

Key Points/Considerations

- 1 Common brand names for Albuterol include Ventolin[®], Proventil[®], and ProAir[®]
 - o Levalbuterol (Xopenex) is a beta agonist and may be utilized in this protocol
 - o A combination inhaler that contains Albuterol & Ipratropium (Atrovent[®]), such as Combivent[®], that is prescribed to the patient may be utilized 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 hospital
- Explained the risks of refusing care/transport
- Explained that by refusing care/transport, the possibility of serious illness, permanent disability, and death may increase
- Advised the patient to seek medical attention and gave instructions for follow-up care
- Confirmed that the patient understood these directions
- Left the patient in the care of a responsible adult (when possible)
- Advised the patient to call again with any return of symptoms or if he or she wishes to be transported

● EMT STOP

MEDICAL CONTROL CONSIDERATIONS

- Assistance with high risk, difficult, or unclear situations

Key Points/Considerations

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

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

Medical decision-making determination is defined as follows:

- 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

Applies to adult and pediatric patients

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

Applies to adult and pediatric patients

CRITERIA

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

CFR AND ALL PROVIDER LEVELS

EMT

- When transferring patients, both the receiving and transferring providers should:
 - Ensure that all patient information is transferred to the receiving provider, such as chief complaint, past medical history, current history, vital signs, and care given prior to the transfer of care
 - Assist the receiving provider until they are ready to assume patient care
 - Be willing to accompany the receiving provider to the hospital, if the patient's condition warrants or if the receiving provider requests it, as resources allow
- All personnel and agencies must comply with NYSDOH BEMS policy 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 patient 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)

● CFR AND EMT STOP

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