



Table of Contents

Policy

Disposition Policy Section

1. Criteria for Death or Withholding Resuscitation
2. Deceased Subjects
3. Discontinuation of Prehospital Resuscitation
4. Disposition (Patient Instructions)
5. DNR and MOST
6. Patient Without A Protocol
7. Physician on Scene
8. Opioid Overdose Misuse
9. Organ Procurement Agency Notification
10. EMS Offload Transition of Care

Documentation Policy Section

1. Documentation and Data Quality
2. Documentation of Vital Signs

EMS Dispatch Policy Section

1. EMS Dispatch Center Time

Medical Policy Section

1. Drug Assisted Airway
2. Ketamine Program Requirements

Pediatric Policy Section

1. Children With Special Healthcare Needs (NC Kidbase)
2. Infant Abandonment

Service Metric Policy Section

1. EMS Back In Service Time
2. EMS Wheels Rolling Turn-Out Time

Toxic Environmental Policy Section

1. Poison Control

Transport Policy Section

1. Air Transport
2. Safe Transport of Pediatric Patients
3. Transport



Standards Policy: Disposition Policy Section

Criteria for Death / Withholding Resuscitation

Policy:

CPR, BLS and ALS treatment are to be withheld only if the patient is obviously dead (see procedure section) or a valid (*properly completed, signed, dated, and unexpired*) **North Carolina Do Not Resuscitate (DNR)** form and/or **Medical Orders for Scope of Treatment (MOST)** form is present (Disposition Policy 5).

EMS personnel shall also honor a valid **POLST (Physician Orders for Life Sustaining Treatment)**, **POST (Physician Orders for Scope of Treatment)**, **MOST and/or DNR** (*properly completed, signed, dated, and unexpired*) from another state or US military form. NCGS Article 23: 90-320.

Purpose:

The purpose of this policy is to:

- Honor those who have obviously expired prior to EMS arrival.
- To honor the terminal wishes of the patient
- To prevent the initiation of unwanted resuscitation

Procedure:

1. If a patient is in complete cardiopulmonary arrest (clinically dead) and meets one or more of the criteria below, CPR and ALS therapy need not be initiated:
 - Body decomposition
 - Rigor mortis
 - Dependent lividity
 - Blunt force trauma
 - Injury not compatible with life (i.e., decapitation, burned beyond recognition, massive open or penetrating trauma to the head or chest with obvious organ destruction)
 - Extended downtime (> 15 minutes) with Asystole on the ECG
 - Meets criteria established in AC 12 Termination of CPR Protocol
 - Meets criteria established in TB 10 Traumatic Arrest Protocol
2. If a bystander or first responder has initiated CPR or automated defibrillation prior to ALS personnel (Paramedic or AEMT) arrival and any of the above criteria (signs of obvious death) are present, the ALS provider may discontinue CPR / resuscitation efforts. All other EMS personnel levels must communicate with medical control prior to discontinuation of the resuscitative efforts unless specifically addressed in AC 12 Termination of CPR Protocol and/or TB 10 Traumatic Arrest Protocol.
3. If doubt exists, start resuscitation immediately. Once resuscitation is initiated, continue resuscitation efforts until either:
 - a) Resuscitation efforts meet the criteria for implementing the **Discontinuation of Prehospital Resuscitation Policy** (Disposition Policy 3).
 - b) Patient care responsibilities are transferred to the destination hospital staff.



Deceased Subjects

Policy:

EMS will handle the disposition of deceased subjects in a uniform, professional, and timely manner.

Purpose:

The purpose of this policy is to:

- Organize and provide for a timely disposition of any deceased subject
- Maintain respect for the deceased and family
- Allow EMS to return to service in a timely manner.

Procedure:

1. Do not remove lines or tubes from unsuccessful cardiac arrests/codes unless directed below.
2. Notify the law enforcement agency with jurisdiction if applicable.
3. If subject was found deceased by EMS, the scene is turned over to law enforcement.
4. If EMS has attempted to resuscitate the patient and then terminated the resuscitative efforts, EMS personnel should contact the primary care provider (medical cases) or medical examiner (traumatic cases or primary care provider unavailable) to provide information about the resuscitative efforts.

Cases that require notification of the Medical Examiner when death results from:

Accident	Poisoning
Homicide	Suicide
Violence	
Occurring in jail, prison, correctional institution, or in LEO custody	
Occurring under suspicious, unusual, or unnatural circumstances	
Sudden unexpected death when in otherwise good health	
No current primary care or specialty physician care	

5. Transport arrangements should be made in concert with law enforcement and the family's wishes.
6. If the deceased subject's death is not under the jurisdiction of the medical examiner, any line(s) or tube(s) placed by EMS should be removed prior to transport.
7. Document the situation, name of primary care provider or Medical Examiner contacted, the patient care report form (PCR).
8. Physician Assistants and/or Nurse Practitioners may sign a North Carolina death certificate when specially authorized by their supervising physician.
9. Follow Disposition Policy 9 Organ Procurement Agency Notification



Standards Policy: Disposition Policy Section

Discontinuation of Prehospital Resuscitation

Policy:

Unsuccessful cardiopulmonary resuscitation (CPR), basic life support (BLS), and other advanced life support (ALS) interventions may be discontinued prior to transport or arrival at the hospital when this policy is followed.

Purpose:

The purpose of this policy is to:

- Allow for discontinuation of prehospital resuscitation after the delivery of adequate and appropriate BLS and/or ALS therapy.

Procedure:

1. Discontinuation of CPR, BLS, and ALS intervention may be implemented **prior to contact with Medical Control** if **ALL** of the following criteria have been met:

- Patient must be ≥ 18 years of age
- High quality CPR administered
- Airway successfully managed:
 - Acceptable airway management techniques include orotracheal intubation, Blind Insertion Airway Device (BIAD) placement, or cricothyrotomy
 - EtCO₂ monitoring for airway confirmation utilized if available
- IV or IO access has been achieved
- No hypothermia (body temperature $\geq 93.2^{\circ}\text{F}$ or 32°C)
- Protocol AC 12 On Scene Resuscitation Termination of CPR or TB 10 Traumatic Arrest utilized as applicable
- All EMS BLS and ALS personnel involved in the patient's care agree that discontinuation of the resuscitation is appropriate

2. If all of the above criteria are not met and discontinuation of prehospital resuscitation is desired, **contact Medical Control**.

3. The **Deceased Subjects Policy** should be followed.

Document all patient care and interactions with the patient's family, personal physician, medical examiner, law enforcement, and medical control in the EMS patient care report (PCR).

Standards Policy: Disposition Policy Section

Disposition (Patient Instructions)

Policy:

All patient encounters responded to by EMS will result in the accurate and timely completion of:

- The Patient Care Report (PCR) for all patients transported by EMS
- The Patient Disposition Form for all patients not transported by EMS

Purpose:

To provide for the documentation of:

- The evaluation and care of the patient
- The patient's refusal of the evaluation, treatment, and/or transportation
- The patient's disposition instructions
- The patient's EMS encounter to protect the local EMS system and its personnel from undue risk and liability.

Procedure:

1. All patient encounters, which result in some component of an evaluation, must have a Patient Care Report completed.
2. All patients who refuse any component of the evaluation or treatment, based on the complaint, must have a Disposition Form completed.
3. All patients who are NOT transported by EMS must have a Disposition (patient instruction) Form completed including the Patient Instruction Section.
4. A copy of the Patient Disposition Form should be maintained with the official Patient Care Report (PCR)



North Carolina Do Not Resuscitate and MOST Form

Policy:

CPR, BLS and ALS treatment are to be withheld only if the patient is obviously dead (see procedure section) or a valid (*properly completed, signed, dated, and unexpired*) **North Carolina Do Not Resuscitate (DNR)** form and/or **Medical Orders for Scope of Treatment (MOST)** form is present (Disposition Policy 5).

EMS personnel shall also honor a valid **POLST (Physician Orders for Life Sustaining Treatment)**, **POST (Physician Orders for Scope of Treatment)**, **MOST and/or DNR** (*properly completed, signed, dated, and unexpired*) from another state or US military form. NCGS Article 23: 90-320.

Purpose:

- Honor those who have obviously expired prior to EMS arrival.
- To honor the terminal wishes of the patient
- To prevent the initiation of unwanted resuscitation

Procedure:

1. When confronted with a patient or situation involving the NC DNR and/or MOST form(s), the following form content must be verified before honoring the form(s) request.
 - The form(s) must be either an original North Carolina DNR or North Carolina MOST form
 - The effective date and expiration date must be completed and current
 - The DNR and/or MOST Form must be signed by a physician, physician's assistant, or nurse practitioner.
 - Out-of-state or US military form:
 - Must be an original MOST, DNR, POLST (Physician Orders for Life Sustaining Treatment) or POST (Physician Orders for Scope of Treatment).
 - The effective date and expiration date must be completed and current
 - The DNR and/or MOST Form must be signed by a physician, physician's assistant, or nurse practitioner
2. A valid DNR or MOST form may be overridden by the request of (N.C.G.S. 90-21.13):
 - Court appointed guardian
 - Health care power of attorney
 - Spouse
 - Majority of patient's reasonably available parents and/or children who are ≥ 18 years old
 - Majority of patient's reasonably available siblings who are ≥ 18 years old
 - Patient's attending physician
 - EMS personnel should contact **Medical Control** to obtain assistance and direction if clarification is necessary.
3. A living will (other legal document) that identifies the patient's desire to withhold CPR or other medical care may be honored with the approval of **Medical Control**. Ideally, consultation with patient's family and personal physician is suggested as time allows.



Standards Policy: Disposition Policy Section

Patient Without a Protocol

Policy:

Anyone requesting EMS services will receive a professional evaluation, treatment, and transportation (if needed) in a systematic, orderly fashion regardless of the patient's problem or condition.

Purpose:

- To ensure the provision of appropriate medical care for every patient regardless of the patient's problem or condition.

Procedure:

1. Treatment and medical direction for all patient encounters, which can be triaged into an EMS patient care protocol, is to be initiated by protocol.
2. When confronted with an emergency or situation that does not fit into an existing EMS patient care protocol, the patient should be treated by the **Universal Patient Care Protocol** and a **Medical Control Physician** should be contacted for further instructions.



Physician on Scene

Policy:

The medical direction of prehospital care at the scene of an emergency is the responsibility of those most appropriately trained in providing such care. All care should be provided within the rules and regulations of the state of North Carolina.

Purpose:

- To identify a chain of command to allow field personnel to adequately care for the patient
- To assure the patient receives the maximum benefit from prehospital care
- To minimize the liability of the EMS system as well as the on-scene physician

Procedure:

1. When a non medical-control physician offers assistance to EMS or the patient is being attended by a physician with whom they do not have an ongoing patient relationship, EMS personnel must review the On-Scene Physician Form with the physician. All requisite documentation must be verified and the physician must be approved by on-line medical control.
2. When the patient is being attended by a physician with whom they have an ongoing patient relationship, EMS personnel may follow orders given by the physician if the orders conform to current EMS guidelines, and if the physician signs the PCR. Notify medical control at the earliest opportunity. Any deviation from local EMS protocols requires the physician to accompany the patient to the hospital.
3. EMS personnel may accept orders from the patient's physician over the phone with the approval of medical control. The paramedic should obtain the specific order and the physician's phone number for relay to medical control so that medical control can discuss any concerns with the physician directly.



Standards Policy: Disposition Policy Section

Opioid Overdose/Misuse (Optional)

Policy:

Patients who have experienced an opioid overdose/misuse should be offered a variety of options to more appropriately manage their care where available in the community. All care should be provided within the rules and regulations of the state of North Carolina.

Purpose:

- To ensure patients are offered options for treatment of opioid misuse where available.
- Provide harm reduction measures related to opioid misuse.

Procedure:

1. Patients must be over 18 years of age and experienced unintentional overdose or misuse of an opioid medication(s) only. Patients must NOT have experienced cardiac arrest defined as administration of chest compressions by first responders or EMS during the incident.
2. The patient must regain a normal mental status and respiratory effort after the administration of naloxone, NOT have suicidal or homicidal ideations/intentions, and NOT ingested substance(s) for intentional self-harm.
3. Patients who have co-ingested other substances should be treated based on appropriate protocol. Consult Carolina Poison Center at 1-800-222-1222 for advice if needed.
4. Transport to an Emergency Department should be offered to all patients. For patients who decline transport to an Emergency Department, alternative destinations should be offered if available in the community. Options may include assistance with accessing inpatient treatment centers, outpatient facilities, mobile crisis solutions, addiction specialists, and/or other local treatment options.
5. In order to decline transport, the patient must meet the following criteria:
 - a) Be 18 years or older
 - b) Maintain a GCS of 15 (alert, and oriented to time, place, person, and situation)
 - c) Demonstrate decision-making capacity as outlined in Universal Protocol (UP 1) Pearls.
6. If patient declines transport to an Emergency Department, an additional dose of naloxone should be offered by EMS if patient consents to additional treatment. IN administration is preferable to limit the possibility of provider needle stick injury. If patient has no sober and responsible party to monitor them, EMS should offer IM administration of naloxone if patient consents to treatment. If available, a naloxone kit should be left with the patient, family, and/or friends on scene. EMS should provide brief education on how to properly use these kits and refer them to read all package related material and instructions provided by the manufacturer.
7. In addition to naloxone kits, the following items should be offered where possible/available:
 - a) Offer to properly dispose of any dirty needles following your agency policy
 - b) Provide clean needles/syringes where possible following your agency policy
 - c) Refer to a community peer support team if available
 - d) Provide literature outlining resources for substance misuse treatment programs in the community



Standards Policy: Disposition Policy Section

Organ Procurement Agency Notification

Policy:

When cardiopulmonary resuscitation (CPR), basic life support (BLS), and other advanced life support (ALS) interventions are withheld or discontinued on scene, EMS will report the death to the appropriate organ procurement organization servicing the county where death occurred in a timely manner. EMS will share information relevant to the donation process with the appropriate organ procurement organization.

Purpose:

To ensure an organ procurement organization is notified of deaths pronounced in the field by EMS in order to:

- Honor the decedent's registered declaration of eye and/or tissue donation.
- Preserve family's opportunity to support eye and/or tissue donation.
- Service the public health by facilitating eye and tissue donation.

Procedure:

EMS will notify the appropriate organ procurement organization of deaths pronounced outside of the hospital. Potential donors between ages of newborn – 100 years old will be referred.

Essential information to be provided to the organ procurement organization include:

- Caller name, title, and agency contact information
- Patient demographics
- Last seen alive date/time or time of death
- Circumstances of death (notify organ procurement agency even if medical examiner case)
- Medical interventions and medical history
- Next of kin name and contact information
- Who is taking custody of the decedent's body (ex: funeral home, hospital, M.E.)
- EMS **SHOULD NOT** discuss eye or tissue donation with next of kin. Coordinators specializing in family support will attempt to contact appropriate family members about organ donation.
- Document all patient care and interactions with the patient's family, personal physician, medical examiner, law enforcement, and medical control in the EMS electronic patient care report (ePCR).

Contact information for Organ Procurement Organizations:

LifeShare Carolinas		LifeNet Health	HonorBridge
1 (800) 932-4483		1 (800) 847-7831	1 (800) 252-2672
Anson	Jackson	Currituck	All Other NC Counties
Buncombe	Lincoln		
Burke	Macon		
Cabarrus	Madison		
Cherokee	Mecklenburg		
Clay	Polk		
Cleveland	Rutherford		
Gaston	Stanly		
Graham	Swain		
Haywood	Transylvania		
Henderson	Union		



Standards Policy: Disposition Policy Section

EMS Offload/ Facility Transition of Care

Policy:

EMS represents a valuable community asset and timely availability of transport units is paramount to successful system operations. Turn Around Times after transport destination arrival can often decrease availability of units in the community. It is the expectation that medical facilities will accept care in a timely fashion after arrival of EMS and that EMS will transition care to medical facility staff in a timely manner.

Once EMS arrives at a hospital facility, EMS recognizes that the receiving hospital becomes responsible for patient care and receiving the patient for continued care. The Emergency Medical Treatment and Active Labor Act (EMTALA) is a federal law that states once a patient arrives within 250 yards of a hospital's main building(s), the hospital is responsible for care of the patient, and is obligated to perform a medical screening exam. Hospitals are not permitted to delay receiving of a patient(s) due to their EMTALA obligation. If an EMS transport unit arrives on hospital property that has declared diversionary status, the hospital is not relieved of its EMTALA obligations and must receive the patient.

Purpose:

The purpose of this policy is to:

- Ensure timely transfer of patient care to the receiving medical facility.
- Provide for the transfer of appropriate care information to the receiving facility.
- Ensure adequate number of transport units available to the community is not delayed due to prolonged Turn Around Times at receiving facilities.
- Promote teamwork and collegiality in transferring care of patients between EMS and hospital personnel with the goal of optimal patient care in focus.

Procedure:

1. EMS will provide an oral report to hospital personnel describing patient status, mechanism of injury or illness, vital signs, therapies provided, procedures performed, and response to treatment.
2. Verbal patient report, paper transition of care/ written hand-off report, PCR copy, or ePCR transmission of patient care is provided to hospital personnel at time of transition of care.
 - Demographic information shall be legible and accurate (to the extent known).
 - Summary of care provided.
 - Vital sign summary.
 - Procedures performed summary.
3. Assist in moving patient from EMS manner of conveyance to designated hospital area identified by hospital personnel.
4. Obtain the name and title of the receiving hospital personnel and document in the EMS PCR or ePCR.
5. Attempt to obtain the signature of the receiving hospital personnel and document in the EMS PCR or ePCR.
 - In the event hospital personnel refuse to sign acknowledging receipt of the patient, document the name and title of the hospital personnel and note hospital personnel refused to sign in the narrative portion of the PCR or ePCR or other area designated by agency.



Standards Policy: Documentation Policy Section

EMS Documentation and Data Quality

Policy:

The complete EMS documentation associated with service delivery and patient care shall be electronically recorded into a Patient Care Report (PCR) within 24 hours of the completion of the EMS event, with an EMS Data Score at/or below the state average.

Definition:

EMS documentation of a Patient Care Report (PCR) is based on the appropriate and complete documentation of the EMS data elements as required and defined within the North Carolina College of Emergency Physicians' EMS Standards (www.NCCEP.org). Since each EMS event and/or patient scenario is unique, only the data elements relevant to that EMS event and/or patient scenario should be completed.

The EMS Data Score is calculated on each EMS PCR as it is electronically processed into the North Carolina PreHospital Medical Information System (PreMIS). Data Quality Scores are provided within PreMIS. The best possible score is a 0 (zero) and with each data quality error a point is added to the data quality score.

A complete Patient Care Report (PCR) must contain the following information (as it relates to each EMS event and/or patient):

- Service delivery and crew information regarding the EMS Agency's response
- Dispatch information regarding the dispatch complaint, and EMD card number
- Patient care provided prior to EMS arrival
- Patient assessment as required by each specific complaint based protocol
- Past medical history, medications, allergies, and DNR/MOST status
- Trauma and cardiac arrest information if relevant to the EMS event or patient
- All times related to the event
- All procedures and their associated time
- All medications administered with their associated time
- Disposition and/or transport information
- Communication with medical control
- Appropriate signatures (written and/or electronic)

Purpose:

The purpose of this policy is to:

- Promote timely and complete EMS documentation.
- Promote quality documentation that can be used to evaluate and improve EMS service delivery, personnel performance, and patient care to the county's citizens.
- Promote quality documentation that will decrease EMS legal and risk management liability.
- Provide a means for continuous evaluation to assure policy compliance.



Standards Policy: Documentation Policy Section

EMS Documentation and Data Quality

Procedure:

The following procedures shall be implemented to assure policy compliance:

1. The EMS Patient Care Report (PCR) shall be completed as soon as possible after the time of the patient encounter. **Documentation should be completed prior to leaving the destination facility unless call demand dictates otherwise, in which case documentation must be completed prior to the end of the personnel's shift.**
2. **A copy of the patient care report form SHOULD be provided to the receiving medical facility. If the final PCR is not available at the time the patient is left with the emergency department or other healthcare facility, an interim report such as the PreMIS Preliminary Report Form MUST be provided.**
3. The PCR must be completed in the PreMIS System or electronically submitted to the PreMIS System within 24 hours of the EMS event or patient encounter's completion. The EMS data quality feedback provided at the time of the electronic submission into PreMIS should be reviewed and when possible any identified errors will be corrected within each PCR. Each PCR may be electronically resubmitted to PreMIS as many times as needed.
4. The EMS Data Quality Scores for the EMS System, EMS Agency, and individual EMS personnel will be reviewed regularly within the EMS System Peer Review Committee.



Standards Policy: Documentation Policy Section

Documentation of Vital Signs

Policy:

Every patient encounter by EMS will be documented. Vital signs are a key component in the evaluation of any patient and a complete set of vital signs is to be documented for any patient who receives some assessment component.

Purpose:

To insure:

- Evaluation of every patient's volume and cardiovascular status
- Documentation of a complete set of vital signs

Procedure:

1. An **initial** complete set of vital signs includes:
 - Pulse rate
 - Systolic **AND** diastolic blood pressure
 - Respiratory rate
 - Pain / severity (when appropriate to patient complaint)
 - GCS for Injured Patients
2. When no ALS treatment is provided, palpated blood pressures are acceptable for **REPEAT** vital signs.
3. Based on patient condition and complaint, vital signs may also include:
 - Pulse Oximetry
 - Temperature
 - End Tidal CO2
 - Breath Sounds
 - Level of Response
4. If the patient refuses this evaluation, the patient's mental status and the reason for refusal of evaluation must be documented. A patient disposition form must also be completed.
5. Document situations that preclude the evaluation of a complete set of vital signs.
6. Record the time vital signs were obtained.
7. Any abnormal vital sign should be repeated and monitored closely.

EMS Dispatch Center Time

Policy:

The EMS Dispatch Center Time will be less than 90 seconds, 90% of the time, for all events identified and classified as an emergent or hot (with lights and siren) response.

Definition:

The EMS Dispatch Center Time is defined as the time interval beginning with the time the initial 911 phone call rings at the 911 Communications Center requesting emergency medical services and ending with the dispatch time of the EMS Unit responding to the event.

Purpose:

The purpose of this policy is to:

- Provide the safest and most appropriate level of response to all EMS events within the EMS System.
- Provide a timely and reliable response for all EMS events within the EMS System.
- Provide quality EMS service and patient care to the county's citizens.
- Provide a means for continuous evaluation to assure policy compliance.

Procedure:

The following procedures shall be implemented to assure policy compliance:

1. A public calls into the 911 Communications Center requesting emergency medical assistance will never be required to speak with more than two persons before a formal EMS Unit is dispatched.
2. In EMS Dispatch Centers where Emergency Medical Dispatch (EMD) has been implemented, EMS Units will be dispatched by EMD certified personnel in accordance with the standards developed by the Medical Director and the Emergency Medical Dispatch Protocols.
3. EMS Units will be dispatched hot (with lights and sirens) or cold (no lights and sirens) by the 911 Call Center based on predetermined criteria. If First Responders are dispatched as a component of the EMS response, they should typically be dispatched hot (with lights and sirens).
4. Without question, exception, or hesitation, EMS Units will respond as dispatched (hot or cold). This includes both requests to respond on active calls and requests to "move-up" to cover areas of the System that have limited EMS resources available.
5. EMS Units may, at their discretion, request for a First Responder on Non-First Responder calls in situations where additional resources are required such as manpower, extreme response time of the EMS Unit, need for forcible entry, etc.



EMS Dispatch Center Time

6. EMS Units dispatched with a cold (no lights and sirens) response, will not upgrade to a hot (with lights and sirens) response **UNLESS**:
 - Public Safety personnel on-scene requests a hot (with lights and sirens) response.
 - Communications Center determines that the patient's condition has changed, and requests you to upgrade to a hot (with lights and sirens) response.
7. An EMS Unit may divert from a current cold (no lights and sirens) call to a higher priority hot (with lights and sirens) call **ONLY IF**:
 - The EMS Unit can get to the higher priority call before it can reach the lower priority call. Examples of High Priority Calls: Chest Pain, Respiratory Distress, CVA, etc.
 - The diverting EMS Unit must notify the EMS Dispatch Center that they are diverting to the higher priority call.
 - The diverting EMS Unit ensures that the EMS Dispatch Center dispatches an EMS Unit to their original call.
 - Once a call has been diverted, the next EMS Unit dispatched must respond to the original call. A call cannot be diverted more than one (1) time.
8. Any EMS Dispatch Center Time delays resulting in a prolonged EMS Dispatch Center Time for emergent hot (with lights and sirens) events will be documented in Patient Care Report (PCR) as an "EMS Dispatch Delay" as required and defined in the North Carolina College of Emergency Physicians (NCCEP) EMS Dataset Standards Document.
9. All EMS Dispatch Delays will be reviewed regularly within the EMS System Peer Review Committee.



Drug Assisted Airway

Policy:

Drug Assisted Intubation (DAI) requires an EMS System or Agency to follow these guidelines to ensure that this invasive procedure is performed in a safe and effective manner to benefit the citizens and guest of North Carolina.

Purpose:

The purpose of this policy is to:

- Ensure that the procedure is performed in a safe and effective manner
- Facilitate airway management in appropriate patients

Procedure:

1. In addition to other monitoring devices, Waveform Capnography and Pulse Oximetry are required to perform Drug Assisted Airways and must be monitored throughout the procedure.
2. Two Paramedics or higher-level providers must be present and participate in the airway management of the patient during the procedure.
3. All staff must be trained and signed off by the EMS Medical Director prior to performing Drug Assisted Airways.
4. A printed copy or electronic download from the monitor defibrillator including the pulse oximetry, heart rate, heart rhythm, waveform capnography, and blood pressure must be stored with the patient care report.
5. An EMS Airway Evaluation Form must be completed on all Drug Assisted Airway Attempts.
6. The EMS Airway Evaluation Form must be reviewed and signed by the EMS Medical Director within 14 days of the Drug Assisted Airway attempts.
7. All Drug Assisted Airways must be reviewed by the EMS System or Agency and issues identified addressed through the System Peer Review Committee.
8. A copy of the EMS Airway Evaluation form for each Drug Assisted Airways must be forwarded to the appropriate OEMS Regional Office listed below at the end of each month for state review.

Western Regional Office
3305-4 16th Avenue SE
Conover, NC 28613
Telephone: 828-466-5548
Fax: 828-466-5651

Central Regional Office
2707 Mail Service Center
Raleigh, NC 27699-2707
Telephone: 919-855-4678
Fax: 919-715-0498

Eastern Regional Office
404 Saint Andrews Dr
Greenville, NC 27834
Telephone: 252-355-9026
Fax: 252-355-9063

In addition, the NC EMS Airway Evaluation Form has been revised to a one page document to improve provider compliance and promote receiving/confirming physician acceptance.



Standards Policy: Medical Policy Section

Ketamine Program Requirements

Policy:

When administered outside of the AR 3 Airway Drug Assisted Intubation Protocol, an EMS System or Agency must be approved by the State Medical Director and follow the guidelines below when administering Ketamine.

Purpose:

The purpose of this policy is to:

- Ensure that Ketamine is administered in a safe and effective manner
- Facilitate use of Ketamine in appropriate patients
- Establish a reporting mechanism for state review
-

Procedure:

1. The EMS system or Agency must adopt NCCEP protocols unchanged or submit equivalent protocols for review.
2. Letters of support must be obtained from all receiving hospitals where patients will be delivered after administration. These letters must be submitted to the OEMS prior to approval.
3. All personnel must be trained prior to implementation.
4. All administrations must be reviewed through the established PI/QA Medical Oversight process to include hospital outcome feedback. Concerns identified must be reviewed by the Peer Review/QA committee.
5. There are two (2) components of the NCOEMS reporting process:
 - a. The EMS system or agency must submit to the OEMS a Ketamine Adverse Outcome Reporting Form and ePCR within 14 days for administrations that result in any of the following;
 - 1) Cardiac Arrest (pre-hospital or ED)
 - 2) Unanticipated intubation required after administration (pre-hospital or ED).

*Secure Ketamine Adverse Outcome Report link: <https://nc.readyop.com/fs/4ckl/786b>

- b. The EMS system or agency must submit a quarterly report to the OEMS indicating;
 - 1) The total number of administrations
 - 2) Summary of primary protocol utilizations
 - 3) Summary highlighting the PR/QA of cases that required a Ketamine Reporting Form.

*Secure Ketamine Quarterly Report link: <https://nc.readyop.com/fs/4ckG/1544>

****IF THE REPORTING LINKS ABOVE DO NOT DIRECT YOU TO AN ACTIVE FORM, PLEASE COPY AND PASTE THE LINK INTO YOUR WEB BROWSER MANUALLY****



Child with Special Health Care Needs (NC Kidbase)

Policy:

Medical technology, changes in the healthcare industry, and increased home health capabilities have created a special population of patients that interface with the EMS system. It is important for EMS to understand and provide quality care to children with special health care needs.

Purpose:

The purpose of this policy is to:

- Provide quality patient care and EMS services to children with special health care needs.
- Understand the need to communicate with the parents and caregivers regarding healthcare needs and devices that EMS may not have experience with.
- Promote, request, and use the “Kidbase” form, which catalogs the health care problems, needs, and issues of each child with a special healthcare need.

Procedure:

1. Caregivers who call 911 to report an emergency involving a child with special health care needs may report that the emergency involves a “Kidbase child” (if they are familiar with the NC Kidbase program) or may state that the situation involves a special needs child.
2. Responding EMS personnel should ask the caregiver of a special needs child for a copy of the “Kidbase Form”, which is the North Carolina terminology for the Emergency Information Form (EIF).
3. EMS personnel may choose to contact the child’s primary care physician for assistance with specific conditions or devices or for advice regarding appropriate treatment and/or transport of the child in the specific situation.
4. Transportation of the child, if necessary, will be made to the hospital appropriate for the specific condition of the child. In some cases this may involve bypassing the closest facility for a more distant yet more medically appropriate destination.



Infant Abandonment

Policy:

The North Carolina Infant Homicide Prevention Act provides a mechanism for unwanted infants to be taken under temporary custody by a law enforcement officer, social services worker, healthcare provider, or EMS personnel if an infant is presented by the parent within 7 days of birth. Emergency Medical Services will accept and protect infants who are presented to EMS in this manner, until custody of the child can be released to the Department of Social Services.

*"A law enforcement officer, a department of social services worker, a health care provider as defined in G.S. 90-21.11 at a hospital or local or district health department, or an **emergency medical technician** at a fire station shall, without a court order, take into temporary custody an infant under 7 days of age that is voluntarily delivered to the individual by the infant's parent who does not express an intent to return for the infant. An individual who takes an infant into temporary custody under this subsection shall perform any act necessary to protect the physical health and well-being of the infant and shall immediately notify the department of social services. Any individual who takes an infant into temporary custody under this subsection may inquire as to the parents' identities and as to any relevant medical history, but the parent is not required to provide this information."*

Purpose:

To provide:

- Protection to infants that are placed into the custody of EMS under this law
- Protection to EMS systems and personnel when confronted with this issue

Procedure:

1. Initiate the Pediatric Assessment Procedure.
2. Initiate Newly Born Protocol as appropriate.
3. Initiate other treatment protocols as appropriate.
4. Keep infant warm.
5. Call local Department of Social Services or the county equivalent as soon as infant is stabilized.
6. Transport infant to medical facility as per local protocol.
7. Assure infant is secured in appropriate child restraint device for transport.
8. Document protocols, procedures, and agency notifications in the PCR.



EMS Back in Service Time

Policy:

All EMS Units transporting a patient to a medical facility shall transfer the care of the patient and complete all required operational tasks to be back in service for the next potential EMS event within 30 minutes of arrival to the medical facility, 90% of the time.

Definition:

The EMS Back in Service Time is defined as the time interval beginning with the time the transporting EMS Unit arrives at the medical facility destination and ending with the time the EMS Unit checks back in service and available for the next EMS event.

Purpose:

The purpose of this policy is to:

- Assure that the care of each EMS patient transported to a medical facility is transferred to the medical facility staff in a timely manner.
- Assure that the EMS unit is cleaned, disinfected, restocked, and available for the next EMS event in a timely manner.
- Assure that an interim or complete EMS patient care report (PCR) is completed and left with the receiving medical facility documenting, at a minimum, the evaluation and care provided by EMS for that patient (It is acceptable to leave the PreMIS Preliminary Report or equivalent if the final PCR cannot be completed before leaving the facility).
- Provide quality EMS service and patient care to the county's citizens.
- Provide a means for continuous evaluation to assure policy compliance.

Procedure:

The following procedures shall be implemented to assure policy compliance:

1. The EMS Unit's priority upon arrival at the medical facility will be to transfer the care of the patient to medical facility staff as soon as possible.
2. EMS personnel will provide a verbal patient report on to the receiving medical facility staff.
3. EMS personnel will provide an interim (PreMIS Preliminary Report or equivalent) or final Patient Care Report (PCR) to the receiving medical facility staff, prior to leaving the facility, that documents at a minimum the patient's evaluation and care provided by EMS prior to arrival at the medical facility. A complete PCR should be completed as soon as possible but should not cause a delay in the EMS Back in Service Time.
4. The EMS Unit will be cleaned, disinfected, and restocked (if necessary) during the EMS Back in Service Time interval.
5. Any EMS Back in Service Time delay resulting in a prolonged EMS Back in Service Time will be documented in Patient Care Report (PCR) as an "EMS Turn-Around Delay" as required and defined in the North Carolina College of Emergency Physicians (NCCEP) EMS Dataset Standards Document.
6. All EMS Turn-Around Delays will be reviewed regularly within the EMS System Peer Review Committee.



Standards Policy: Service Metric Policy Section

EMS Wheels Rolling (Turn-Out) Time

Policy:

The EMS Wheels Rolling (Turn-out) Time will be less than 90 seconds, 90% of the time, for all events identified and classified as an emergent or hot (with lights and siren) response.

Definition:

The EMS Wheels Rolling (Turn-out) Time is defined as the time interval beginning with the time the EMS Dispatch Center notifies an EMS Unit to respond to a specific EMS event and ending with the time the EMS Unit is moving en route to the scene of the event.

Purpose:

The purpose of this policy is to:

- Provide a timely and reliable response for all EMS events within the EMS System.
- Provide quality EMS service and patient care to the county's citizens.
- Provide a means for continuous evaluation to assure policy compliance.

Procedure:

The following procedures shall be implemented to assure policy compliance:

1. In EMS Dispatch Centers where Emergency Medical Dispatch (EMD) has been implemented, EMS Units will be dispatched by EMD certified personnel in accordance with the standards developed by the Medical Director and the Emergency Medical Dispatch Protocols.
2. The EMS Unit Wheels Rolling (Turn-out) time will be less than 90 seconds from time of dispatch, 90% of the time. If a unit fails to check en route within 2:59 (mm:ss), the next available EMS unit will be dispatched.
3. Without question, exception, or hesitation, EMS Units will respond as dispatched (hot or cold). This includes both requests to respond on active calls and requests to "move-up" to cover areas of the System that have limited EMS resources available.
4. An EMS Unit may divert from a current cold (no lights and sirens) call to a higher priority hot (with lights and sirens) call **ONLY IF**:
 - The EMS Unit can get to the higher priority call before it can reach the lower priority call. Examples of High Priority Calls: Chest Pain, Respiratory Distress, CVA, etc.
 - The diverting EMS Unit must notify the EMS Dispatch Center that they are diverting to the higher priority call.
 - The diverting EMS Unit ensures that the EMS Dispatch Center dispatches an EMS Unit to their original call.
 - Once a call has been diverted, the next EMS Unit dispatched must respond to the original call. A call cannot be diverted more than one (1) time.
5. Any EMS Wheels Rolling (Turn-out) Time delay resulting in a prolonged EMS Response Time for emergent hot (with lights and sirens) events will be documented in Patient Care Report (PCR) as an "EMS Response Delay" as required and defined in the North Carolina College of Emergency Physicians (NCCEP) EMS Dataset Standards Document.
6. All EMS Response Delays will be reviewed regularly within the EMS System Peer Review Committee.



State Poison Center

Policy:

The state poison center should be utilized by the 911 centers and the responding EMS services to obtain assistance with the prehospital triage and treatment of patients who have a potential or actual poisoning.

Purpose:

The purpose of this policy is to:

- Improve the care of patients with poisonings, envenomations, and environmental/biochemical terrorism exposures in the prehospital setting.
- Provide for the most timely and appropriate level of care to the patient, including the decision to transport or treat on the scene.
- Integrate the State Poison Center into the prehospital response for hazardous materials and biochemical terrorism responses

Procedure:

1. The 911 call center will identify and if EMD capable, complete key questions for the Overdose/Poisoning, Animal Bites/Attacks, or Carbon Monoxide/Inhalation/HazMat emergency medical dispatch complaints and dispatch the appropriate EMS services and/or directly contact the State Poison Center for consultation.
2. If no immediate life threat or need for transport is identified, EMS personnel may conference the patient/caller with the Poison Center Specialist at the **State Poison Center at 800-222-1222**. If possible, dispatch personnel should remain on the line during conference evaluation.
3. The Poison Center Specialist at the State Poison Center will evaluate the exposure and make recommendations regarding the need for on-site treatment and/or hospital transport in a timely manner. If dispatch personnel are not on-line, the Specialist will recontact the 911 center and communicate these recommendations.
4. If the patient is determined to need EMS transport, the poison center Specialist will contact the receiving hospital and provide information regarding the poisoning, including treatment recommendations. EMS may contact medical control for further instructions or to discuss transport options.
5. If the patient is determined not to require EMS transport, personnel will give the phone number of the patient/caller to the Poison Center Specialist. The Specialist will initiate a minimum of one follow-up call to the patient/caller to determine the status of patient.
6. Minimal information that should be obtained from the patient for the state poison center includes:
 - Name and age of patient
 - Time of exposure
 - Signs and symptoms
 - Substance(s) involved
 - Any treatment given
7. Minimal information which should be provided to the state poison center for mass poisonings, including biochemical terrorism and HazMat, includes:
 - Substance(s) involved
 - Signs and symptoms
 - Time of exposure
 - Any treatment given



Air Transport

Policy:

For the purposes of this policy, air transport refers to rotary wing aircraft or helicopter (HEMS). HEMS should be considered whenever time-dependent conditions in patient care can be improved by decreasing transport time or by giving advanced care not commonly available from ground EMS services (i.e. blood products, advanced procedures, or advanced monitoring).

Purpose:

The purpose of this policy is to:

- Improve patient care in the prehospital setting by decreasing out of hospital time in time-dependent conditions.
- Allow for expedient transport in time-dependent conditions or mass casualty settings.
- Provide life-saving treatment such as blood products or advanced monitoring.
- Provide more timely access to interventional care in acute Stroke and ST-elevation myocardial infarction (STEMI) patients.
- Time-dependent conditions:
 - ST Elevation Myocardial Infarction (STEMI)
 - Stroke and Large Vessel Occlusion Stroke
 - Moderate to Severe traumatic conditions

Procedure:

There is no clear evidence that define strict criteria as to which patients may benefit or time consideration benefit when assessing the need for HEMS.

Patient transportation via ground EMS should not be delayed to wait for HEMS transportation. If the patient is packaged and ready for transport and HEMS is not on scene, or within a reasonable distance, transportation should be initiated by ground EMS.

Air transport should be considered if any of the following criteria apply:

- High priority patient with > 30 - 45 minute transport times.
- High priority patient with geographic hospital transport distance > 45 miles.
- Entrapped patients with > 20 minute estimated extrication time.
- Multiple casualty incident with red/ yellow tag patients.
- Multi-trauma or medical patient requiring life-saving treatment not available in prehospital environment (i.e., blood transfusion, invasive procedure, operative intervention).
- Time dependent medical conditions such as acute ST-elevation myocardial infarctions (STEMI) or acute Stroke that could benefit from the resources at a specialty center as per the EMS System's Stroke and STEMI Plans.

If a potential need for HEMS is anticipated, but not confirmed, HEMS can be placed on standby (*this significantly decreases flight time without the need for auto-launch*).

If scene conditions or patient situation improves after activation of HEMS, and later determined not to be necessary, ALS personnel or administrative personnel may cancel the request for HEMS.

Minimal Information which should be provided to HEMS include:

- Number and Age of patient(s)
- Weight of patient(s)
- Mechanism of injury or nature of illness.
- Potential hazards or HazMat involvement.



Standards Policy: Transport Policy Section

Safe Transport of Pediatric Patients

Policy:

Without special considerations children are at risk of injury when transported by EMS. EMS must provide appropriate stabilization and protection to pediatric patients during EMS transport.

Purpose:

To provide:

- Provide a safe method of transporting pediatric patients within an ambulance.
- Protect the EMS system and personnel from potential harm and liability associated with the transportation of pediatric patients.

Procedure:

1. Drive cautiously at safe speeds observing traffic laws.
2. Tightly secure all monitoring devices and other equipment.
3. Insure that all pediatric patient less than 40 lbs are restrained with an approved child restraint device secured appropriately to the stretcher or captains chair.
3. Insure that all EMS personnel use the available restraint systems during the transport.
4. Transport adults and children who are not patients, properly restrained, in an alternate passenger vehicle, whenever possible.
5. Do not allow parents, caregivers, or other passengers to be unrestrained during transport.
6. NEVER attempt to hold or allow the parents or caregivers to hold the patient during transport.



Transport

Policy:

All individuals served by the EMS system will be evaluated, treated, and furnished transportation (if indicated) in the most timely and appropriate manner for each individual situation.

Purpose:

To provide:

- Rapid emergency EMS transport when needed.
- Appropriate medical stabilization and treatment at the scene when necessary
- Protection of patients, EMS personnel, and citizens from undue risk when possible.

Procedure:

1. All trauma patients with significant mechanism or history for multiple system trauma will be transported as soon as possible. The scene time should be 10 minutes or less.
2. All acute Stroke and acute ST-Elevation Myocardial Infarction patients will be transported as soon as possible. The scene time should be 10 minutes or less for acute Stroke patients and 15 minutes or less (with 12 Lead ECG) for STEMI patients
2. Other Medical patients will be transported in the most efficient manner possible considering the medical condition. Advanced life support therapy should be provided at the scene if it would positively impact patient care. Justification for scene times greater than 20 minutes should be documented.
3. No patients will be transported in initial response non-transport vehicles.
4. In unusual circumstances, transport in other vehicles may be appropriate when directed by EMS administration.