

**North Carolina Medical Board
Approved Medications for Credentialed EMS Personnel**

EMS personnel at any level who administer medications must do so within an EMS system that provides medical oversight. Personnel must follow written treatment protocols and must complete appropriate medical education. All EMS System protocols and policies must be reviewed and approved by the Medical Director of the Office of EMS.

Medications	MR	EMT	EMT-I	EMT-P
ACE inhibitors				X
acetaminophen		X	X	X
adenosine				X
aminophylline				X
amiodarone				X
antibiotics				X
anti-emetic preparations				X
aspirin		X	X	X
atropine	X ⁴	X ⁴	X ⁴	X
barbiturates				X
benzodiazepine preparations				X
beta agonist preparations		X ²	X	X
beta blockers				X
bretylium				X
calcium channel blockers				X
calcium chloride/gluconate				X
charcoal		X	X	X
clonidine				X
clopidogrel				X
crystalloid solutions			X	X
cyanide poisoning antidote kit				X
digoxin				X
diphenhydramine		X ³	X	X
dobutamine				X
dopamine				X
epinephrine	X ¹	X ¹	X	X
etomidate				X
flumazenil				X
furosemide				X
glucagon			X	X
glucose solutions			X	X
heparin (unfractionated and low molecular weight)			X	X
histamine 2 blockers			X	X
hydroxocobalamin				X
immunizations			X ⁶	X ⁶
insulin				X
ipratropium			X	X
isoproterenol				X
lidocaine				X
magnesium sulfate				X
mannitol				X
methylene blue				X
milrinone				X

Medications	MR	EMT	EMT-I	EMT-P
narcotic analgesics				X
narcotic antagonists		X ⁷	X	X
nasal spray decongestant		X	X	X
nesiritide				X
nitroglycerin		X ²	X	X
nitroprusside sodium				X
nitrous oxide				X
non-prescription medications		X	X	X
non-steroidal anti-inflammatory		X	X	X
norepinephrine				X
oxygen	X ⁵	X ⁵	X ⁵	X ⁵
oxytocin				X
paralytic agents				X
phenothiazine preparations				X
phenytoin preparations				X
plasma protein fraction				X
platelet g-II/IIIa inhibitors				X
potassium chloride				X
pralidoxime	X ⁴	X ⁴	X ⁴	X
procainamide				X
procaine				X
proparacaine				X
proton pump inhibitors				X
sodium bicarbonate				X
steroid preparations				X
thiamine			X	X
thrombolytic agents				X
topical hemostatic agents	X	X	X	X
Total Parenteral Nutrition				X
tuberculosis skin test			X ⁶	X ⁶
valproic acid				X
vasopressin			X	X
whole blood and components				X
ziprasidone				X

¹ MR and EMT use of epinephrine is limited to the treatment anaphylaxis and may be administered only by auto injector.

² EMT use of beta-agonists and nitroglycerine is limited to patients who currently are prescribed the medication. EMTs may administer these medications from EMS supplies. EMT use of beta-agonists may be through any inhaled method of medication administration.

³ EMT administration of diphenhydramine is limited to the oral route.

⁴ As a component of preparedness for domestic terrorism, EMS personnel, public safety officers, and other first responders recognized by the EMS system, may carry, self-administer, or administer to a patient atropine and/or pralidoxime, based on written protocols and medical direction. All personnel except for EMT-Ps must administer these medications by an auto injector.

⁵ Administration of oxygen does not require medical direction.

⁶ Administration of immunizations and TB skin tests are not limited to public health initiatives.

⁷ EMT administration of naloxone is limited to the intra-nasal route.

**North Carolina Medical Board
Approved Skills for Credentialed EMS Personnel**

EMS personnel performing these skills must do so within an EMS system. Personnel must follow written treatment protocols and must complete appropriate medical education. All EMS System protocols and policies must be reviewed and approved by the Medical Director of the Office of EMS.

Skills	EMD	MR	EMT	EMT-I	EMT-P
12-Lead ECG acquisition & transmission			X	X	X
12-Lead ECG interpretation					X
Airway-Blind Insertion Device			X ²	X	X
Airway-CPAP				X	X
Airway-Cricothyrotomy-Needle					X
Airway-Cricothyrotomy-Surgical					X
Airway-Intubation				X	X
Airway-Rapid sequence induction					X
Airway-Suction		X	X	X	X
Airway-Tracheostomy tube change					X
Arterial Access-Blood Draw					X
Arterial Line maintenance					X
Capnography (waveform)			X	X	X
Carbon Monoxide Measurement (non-invasive)		X	X	X	X
Cardiac Pacing-External					X
Cardiopulmonary Resuscitation		X	X	X	X
Cardioversion					X
Carotid Massage					X
Central Venous Pressure line maintenance					X
Chest Compression-External Device				X	X
Chest Decompression-Needle					X
Chest Tube Maintenance					X
Defibrillation-Automated		X	X	X	X
Defibrillation-Manual					X
Epidural Catheter maintenance					X
Gastric Intubation					X
Glucose Measurement		X	X	X	X
Intra-Ventricular Catheter maintenance					X
Intubation Confirmation-Capnometry (color)				X	X
Intubation Confirmation-Esophageal Bulb				X	X
Medication Administration		X ³	X ³	X ³	X ³
Orthostatic Blood Pressure		X	X	X	X
Oxygen Administration		X	X	X	X
Patient Assessment		X	X	X	X
Pulse Oximetry		X	X	X	X
Reperfusion Checklist		X	X	X	X
Respirator Operation			X	X	X
Restraints		X	X	X	X
Spinal Immobilization		X	X	X	X
Splinting		X	X	X	X
Stroke Screen		X	X	X	X
Swan-Ganz Catheter maintenance					X
Thermometer (oral & rectal with low temperature capability)		X	X	X	X

Skills	EMD	MR	EMT	EMT-I	EMT-P
Urinary Catheterization					X
Venous Access-Blood Draw				X	X
Venous Access-Existing catheters					X
Venous Access-Femoral Line					X
Venous Access-Intraosseous					X
Venous Access-Peripheral				X	X
Ventilator Operation					X
Wound Care		X	X	X	X
Pre-arrival instructions to callers	X ¹				
Determine and dispatch appropriate EMS system resources	X ¹				

¹ All EMD skills must be performed in EMS systems with medical oversight and written EMD protocols.

² EMTs using blind insertion airway devices must be functioning in EMS systems with medical direction and written treatment protocols.

³ EMS personnel at any level who administer medications must do so within an EMS system that provides medical oversight. Personnel must follow written treatment protocols and must complete appropriate medical education. All EMS System protocols and policies must be reviewed and approved by the Medical Director of the Office of EMS. The approved medication list is found at the beginning of this document. The administration of oxygen does not require medical direction.