

# Medications Administered by Mississippi EMS Providers

UPDATED by MDTQA 11 2017

The BEMS and the Committee on Medical Direction, Training, and Quality Assurance (MDTQA) compiles and updates a list of intravenous fluids and medications that may be initiated and transported by EMS providers in the State of Mississippi. The most current list of fluids and medications approved for initiation and transport by Mississippi EMS providers can be found by contacting the BEMS office or by going to the BEMS website ([www.health.ms.gov](http://www.health.ms.gov)). Requests for additions or deletions from the list shall be made in writing by the Offline Medical Director to the BEMS. Requests should detail the rationale for the additions, modifications, or deletions.

**EMS personnel at any level who administer medications must do so with medical oversight. Personnel must follow written treatment protocols and must complete appropriate medical education. All EMS System protocols and policies dealing with the administration of intravenous fluids or medications must be reviewed and approved by the Mississippi State EMS Medical Director.**

The following list is divided into medications for ground, air services and critical care services. Paramedic Level units must have all of the medications required for Paramedics while basic life support units shall have all those indicated for EMTs. To maintain licensure, the appropriate medications shall be available on each permitted unit, in required quantities, in date, and in pre-loaded syringes when available. Additionally, drug dosing in pediatrics should use processes minimizing the need for calculations, preferably a length-based system.

Unless otherwise stated or restricted to a specific level of provider, listed medications may be given by any FDA approved route as listed in the EMS Evidenced Based Guidelines or by an FDA approved route as approved through local protocol submitted by a service's offline medical director.

## Basic Life Support Required Medications

Name	Min Quantity	EMT Ground	Paramedic Ground	Paramedic Air Medical	Critical Care Paramedic
Oxygen	300 L Portable; 300 L fixed	Mandatory	Mandatory	Mandatory	Mandatory
Oral glucose	15 grams	Mandatory	Mandatory	Mandatory	Mandatory
Activated charcoal	50 grams	Mandatory	Mandatory	Mandatory	Mandatory

## Intravenous Solutions

Fluid Type	Min Required Quantity	Paramedic Ground	Paramedic Air Medical	Critical Care Paramedic
Lactated Ringer's	Any 4000 ml combination of isotonic crystalloid solutions (Mandatory all advanced life support levels.)			
Normal saline (0.9% sodium chloride)				

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### Advanced Life Support Required Medications

Name	Min Quantity	Paramedic Ground	Paramedic Air Medical	Critical Care Paramedic
Adenosine	18 mg	Mandatory	Mandatory	Mandatory
Analgesics-Narcotic	3 vials, ampules, carpujet	Mandatory	Mandatory	Mandatory
Analgesics-Non-Narcotic	3 vials, ampules, carpujet	Mandatory	Mandatory	Mandatory
Antiemetic	3 vials, ampules, carpujet	Mandatory	Mandatory	Mandatory
Aspirin	5 x 81 mg doses (cardiac)	Mandatory	Mandatory	Mandatory
Atropine	5 mg	Mandatory	Mandatory	Mandatory
Albuterol	6 unit doses	Mandatory	Mandatory	Mandatory
Benzodiazepine	3 vials, ampules, carpujet, etc.	Mandatory	Mandatory	Mandatory
Calcium Chloride	2 grams	Mandatory	Mandatory	Mandatory
Dextrose, D50W	50 grams	Mandatory	Mandatory	Mandatory
Diphenhydramine	100 mg	Mandatory	Mandatory	Mandatory
Dopamine	400 mg	Mandatory	Mandatory	Mandatory
Epinephrine 1:10,000	10 mg	Mandatory	Mandatory	Mandatory
Epinephrine 1:1,000	5 mg	Mandatory	Mandatory	Mandatory
Lidocaine	300 mg	Mandatory	Mandatory	Mandatory
Lidocaine for Infusion	1 Gram	Mandatory	Mandatory	Mandatory
Magnesium Sulfate	5 grams	Mandatory	Mandatory	Mandatory
Naloxone	6 mg	Mandatory	Mandatory	Mandatory
Nitroglycerine	25 doses	Mandatory	Mandatory	Mandatory
Sodium Bicarbonate	100 mEq	Mandatory	Mandatory	Mandatory

### Advanced Life Support Air Medical Required Medications (PARAMEDIC)

Name	Min Quantity	Paramedic Air Medical	Critical Care Paramedic
Furosemide	80 mg	Mandatory	Mandatory
Glucagon	1 unit dose	Mandatory	Mandatory
Ipratropium bromide/salbutamol	6 unit doses	Mandatory	Mandatory

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### Critical Care Life Support Air Medical Required Medications (CRITICAL CARE PARAMEDIC)

Name	Min Quantity	Critical Care
Amiodarone loading dose	300 mg	Mandatory
Amiodarone initial infusion	900 mg	Mandatory
Beta Blocker <i>(e.g. Esmolol, Labetalol, Metoprolol)</i>	100 mg	Mandatory
Calcium Channel Blocker <i>(e.g. Diltiazem)</i>	25 mg	Mandatory
Calcium Chloride	1 Gram	Mandatory
Depolarizing Paralytic	200 mg	Mandatory
Dobutamine Infusion	500 mg	Mandatory
Etomidate	40 mg	Mandatory
Heparin (loading dose)	5000 Units	Mandatory
Heparin (Infusion)	20000 Units	Mandatory
Hydralazine	20 mg	Mandatory
Ketamine	500 mg	Mandatory
Nicardipine Hydrochloride Infusion	20 mg	Mandatory
Non-Depolarizing Paralytic <i>(Succinylcholine (Anectine), Rocuronium (Zemuron), Vecuronium (Norcuron))</i>	200 mg	Mandatory
Norepinephrine	12 mg	Mandatory
Phenylephrine for Infusion	300 mg	Mandatory
Pitocin	10 Units	Mandatory
Propofol 1%	500 mg	Mandatory
Sodium Nitroprusside	25 mg	Mandatory
Steroid	8 mg	Mandatory
Tranexamic Acid	1 gram	Mandatory
Vasopressin	100 units	Mandatory
Vitamin K1 injectable	25 mg	Mandatory

### Advanced Life Support (Paramedic) TRANSPORT ONLY Medications

Name	
Antivenin	Glycoprotein Inhibitors <i>Abciximab (ReoPro®), Eptifibatide (Integrilin®), Tirofiban (Aggrastat®)</i>
Blood Products	Nutritional Supplements w/ Lipids
Fibrinolytic Agents <i>alteplase (Activase), anistreplase (Eminase), streptokinase (Streptase), tissue plasminogen activator (tPA), urokinase (Abbokinase)</i>	Potassium Chloride

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### Advanced Life Support (Paramedic) Medication EXAMPLES BY DRUG CLASS

Class Name	EXAMPLES include, but are not limited to, the following:
Adrenergic Agonist	Epinephrine, Norepinephrine
Anesthetic Agents (IO/Topical)	
Analgesics-Narcotic	Morphine Sulfate, Fentanyl
Analgesics-non-Narcotic	Acetaminophen, Ibuprofen, Aspirin, Ketoralac (Toradol),
Antianginals	Nitroglycerin
Antibiotics	
Anticoagulants	Heparin
Anticholinergics	Atropine, Ipratropium,
Antidotes	Acetylcysteine, Activated Charcoal, Amyl Nitrate, Atropine, Calcium Chloride, Calcium Gluconate, Glucagon, Hydroxocobalamin, Naloxone, Potassium iodide (KI), Pralidoxime chloride (2-PAM), Sodium Bicarbonate, Sodium Nitrate, Sodium Thiosulfate,
Antidysrhythmics Class I	Lidocaine, Procainamide
Antidysrhythmics Class II	Metoprolol, Labetalol
Antidysrhythmics Class III	Amiodarone,
Antidysrhythmics Class IV	Diltiazem, Nifedipine,
Antiemetic	Potas (Zofran), Prochlorperazine (Compazine), Metoclopramide (Reglan),
Antifibrinolytic	Tranexamic acid
Antihistamines	Diphenhydramine
Antipsychotics	Aripiprazole, Haloperidol, Olanzapine, Ziprasidone
Antipyretics	Ibuprofen, Aspirin,
Benzodiazepine	Midazolam (Versed), Diazepam, Lorazepam (Ativan)
Bronchodilators	Albuterol, Ipratropium bromide/salbutamol
Carbohydrate	
Corticosteroids	Dexamethasone, Hydrocortisone succinate, Methylprednisolone
Diuretics	Furosemide,
Electrolytes	Magnesium sulfate
Hormones	Glucagon, Insulin
Medical Gas	Nitrous Oxide, Oxygen
Vitamins	Thiamine
Vasodilators	Nitroglycerine
<b>Other Individually Approved Medications:</b> Adenosine (antiarrhythmic V), Dopamine (Vasopressor), Clopidogrel (P2Y12 inhibitors), Oral Glucose, Ticagrelor (platelet aggregation inhibitor), <b>Ketamine (Behavioral Emergencies and Pain Management Only)</b> , Dobutamine (Cardiac Dopaminergic Agents)	