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NOTICES

DEPARTMENT OF HEALTH

Approved and Required Medications Lists for Emergency Medical Service Agencies and Emergency Medical Service Providers

[53 Pa.B. 8138]

[Saturday, December 30, 2023]

Under 28 Pa. Code §§ 1027.3(c) and 1027.5(b) (relating to licensure and general operating standards; and medication use, control and security), the Department of Health (Department) has approved the following medications for administration by emergency medical responders (EMR), emergency medical technicians (EMT), advanced emergency medical technicians (AEMT), paramedics (P), prehospital registered nurses (PHRN), prehospital physician extenders (PHPE), and prehospital emergency medical services physicians (PHP) when functioning on behalf of an emergency medical service (EMS) agency. The approvals are based upon the type of EMS service an EMS agency is licensed to provide under 35 Pa.C.S. § 8129 (relating to emergency medical services agencies). This notice also specifies the minimum required medications to be stocked on a specified EMS vehicle based upon the type of EMS service the EMS agency is licensed to provide.

Under 28 Pa. Code § 1027.5(d), EMS providers, other than a PHP, may administer to a patient medications, or assist the patient to administer medications previously prescribed for that patient, as specified in the Statewide EMS protocols or as authorized by a medical command physician. An EMS provider may administer medications contained on this list if the EMS provider is credentialed to do so and the EMS vehicle on which they are providing EMS is properly licensed to carry the medication.

Unless otherwise stated or restricted to a specific level of provider, listed medications may be given by any acceptable route as listed in protocol or as ordered by a medical command physician.

Medications that are listed as required must be carried on the specified level of EMS vehicle and must be carried in a quantity sufficient to treat at least one adult using the Statewide EMS protocols. If the protocol identifies repeat doses, then additional medication must be carried. When a pediatric dose option is available (for example a pediatric EPINEPHrine autoinjector), then both the adult and pediatric options must be carried.

During interfacility transport, all medications given by continuous infusion (except intravenous electrolyte solutions with potassium concentrations of no more than 20 mEq/L) must be regulated by an electronic infusion pump. For prehospital transport, continuous infusions of crystalloid solutions containing medication (except intravenous electrolyte solutions with potassium concentrations of no more than 20 mEq/L) and all vasoactive medications must be rate controlled by electronic IV pump or a manual flow control device capable of setting specific numeric flow rates. Nitroglycerin and norepinephrine infusions must be regulated with an electronic pump.

Table 1. Medications that may be administered by EMS providers when functioning on behalf of an EMS agency based upon the type of EMS service an

EMS agency is licensed to provide.

Medication	QRS (including providers at or above the level of EMR)	BLS (including providers at or above the level of EMT)	IALS (including providers at or above the level of AEMT)	ALS (including providers at or above the level of AEMT)	CCT (including providers above the level of AEMT with additional approved training)	Air (including providers above the level of AEMT with additional approved training)
Abciximab	NO	NO	NO	YES ⁵	YES ^{5 or 6}	YES ^{5 or 6}
Acetaminophen	NO	YES	YES	YES	YES	YES
Acetylcysteine	NO	NO	NO	YES ⁵	YES ⁵	YES ^{5,6}
Activated Charcoal	NO	YES	YES	YES	YES	YES
Adenosine	NO	NO	NO	YES	YES	YES
Albumin	NO	NO	NO	YES ⁵	YES ^{5,6}	YES ^{5,6}
Albuterol (nebulizer solution)	NO	YES	YES	YES	YES	YES
Albuterol with ipratropium bromide (nebulizer solution)	NO	YES	YES	YES	YES	YES
Alcohol prep pad	YES	YES	YES	YES	YES	YES
Amiodarone	NO	NO	NO	YES	YES	YES
Anticoagulants/Platelet Inhibitors: all types (unless otherwise specifically listed)	NO	NO	NO	NO	YES ^{5,6}	YES ^{5,6}
Anticonvulsants: all types (unless otherwise specifically listed)	NO	NO	NO	NO	YES ⁶	YES ⁶
Anti-emetics: all types (not otherwise specifically listed)	NO	NO	NO	NO	YES ^{5,6}	YES ^{5,6}
Anti-hypertensives: all types (unless otherwise specifically listed)	NO	NO	NO	NO	YES ⁶	YES ⁶
Antimicrobials: all types	NO	NO	NO	YES	YES	YES
Antivenom: all types	NO	NO	NO	NO	YES ^{5,6}	YES ^{5,6}
Aspirin, oral	NO	YES	YES	YES	YES	YES
Atropine sulfate	NO	NO	NO	YES	YES	YES
Barbiturates: all types	NO	NO	NO	NO	YES ⁶	YES ⁶
Benzocaine, topical	NO	NO	NO	YES	YES	YES
Bivalirudin	NO	NO	NO	YES ⁵	YES ⁶	YES ⁶
Blood products: all types	NO	NO	NO	YES ^{4,5}	YES ⁵	YES ⁶
Bronchodilators, short-acting medications listed in Statewide BLS protocol and contained in multidose	NO	YES	YES	YES	YES	YES

inhaler (MDI), assist with patient's own prescribed medication

Calcium chloride/calcium gluconate	NO	NO	NO	YES	YES	YES
Captopril	NO	NO	NO	YES	YES	YES
Clevidipine	NO	NO	NO	YES ⁵	YES ^{5,6}	YES ^{5,6}
Clopidogrel	NO	NO	NO	NO	YES ⁶	YES ⁶
Crystalloid hypertonic solutions	NO	NO	NO	NO	YES ⁶	YES ⁶
Crystalloid isotonic solutions, including but not limited to: Isolyte, Lactated Ringers, Normosol, saline (NaCl) (unless otherwise specifically listed). <i>Note</i> —Normal Saline Solution and Dextrose listed separately	NO	NO	YES	YES	YES	YES
Crystalloid solution containing potassium, interfacility transport only, potassium concentration may not exceed 20 mEq/kg unless managed by qualified CCT or Air Medical provider	NO	NO	NO	YES ⁵	YES ⁵	YES ⁵
Dexamethasone sodium phosphate	NO	NO	NO	YES	YES	YES
Dextran	NO	NO	NO	NO	YES ^{5,6}	YES ^{5,6}
Dextrose (for intravenous bolus in concentrations between 5%—50%)	NO	NO	YES	YES	YES	YES
Diazepam	NO	NO	NO	YES	YES	YES
Digoxin	NO	NO	NO	NO	YES ⁶	YES ⁶
Diltiazem	NO	NO	NO	YES	YES	YES
DiphenhydrAMINE HCl	NO	NO	YES	YES	YES	YES
DOBUtamine	NO	NO	NO	YES	YES	YES
DOPamine	NO	NO	NO	YES	YES	YES
droPERidol	NO	NO	NO	YES	YES	YES
EMLA Cream	NO	NO	NO	YES	YES	YES
Enalapril	NO	NO	NO	YES	YES	YES
EPINEPHrine HCl 1 mg/mL (unless otherwise specifically listed)	NO	YES ⁴	YES	YES	YES	YES
EPINEPHrine HCl 0.1 mg/mL solution and diluted concentrations for intravenous infusion	NO	NO	NO	YES	YES	YES

EPINEPHrine HCl 0.1 mg/mL for cardiac arrest	NO	NO	YES	YES	YES	YES
EPINEPHrine HCl autoinjector, assist with patient's own prescribed medication	NO	YES	YES	YES	YES	YES
EPINEPHrine HCl autoinjector (adult and pediatric dose sizes), (unless otherwise specifically listed)	NO	YES ⁴	YES	YES	YES	YES
EPINEPHrine HCl, including racemic (by nebulizer)	NO	NO	YES	YES	YES	YES
Eptifibatide	NO	NO	NO	YES ⁵	YES ^{5 or 6}	YES ^{5 or 6}
Esmolol	NO	NO	NO	YES ⁵	YES ⁶	YES ⁶
Etomidate	NO	NO	NO	YES ⁴	YES ⁴	YES ⁴
FentaNYL	NO	NO	NO	YES	YES	YES
Fibrinolytics/thrombolytics: all types	NO	NO	NO	NO	YES ⁶	YES ⁶
Furosemide	NO	NO	NO	YES	YES	YES
Flumazenil	NO	NO	NO	NO	YES ⁵	YES ⁵
Glucagon	NO	NO	YES	YES	YES	YES
Glucagon intranasal (nasal powder spray) or intramuscular autoinjector.	NO	YES ^{2,4}	YES	YES	YES	YES
<i>Note</i> —EMTs must complete additional required education						
Glucocorticoids/mineralocorticoids (unless otherwise specifically listed)	NO	NO	NO	NO	YES ^{5,6}	YES ^{5,6}
Glucose, oral	NO	YES	YES	YES	YES	YES
Heparin (unless otherwise specifically listed)	NO	NO	NO	NO	YES ⁶	YES ⁶
Heparin (by continuous intravenous infusion)	NO	NO	NO	YES ⁵	YES ^{5 or 6}	YES ^{5 or 6}
Hetastarch	NO	NO	NO	NO	YES ^{4,5}	YES ^{4,5}
Hydrocortisone sodium succinate	NO	NO	NO	YES	YES	YES
Hydromorphone	NO	NO	NO	YES ⁵	YES ^{5 or 6}	YES ^{5 or 6}
Hydroxocobalamin	NO	NO	NO	YES	YES	YES
Ibuprofen	NO	YES	YES	YES	YES	YES
Immunizations	NO	NO	NO	YES ¹⁰	YES ¹⁰	YES ¹⁰
Insulin	NO	NO	NO	NO	YES ⁶	YES ⁶
Isoproterenol HCl	NO	NO	NO	YES ⁵	YES ^{5,6}	YES ^{5,6}
Ketamine	NO	NO	NO	YES ⁴	YES ^{4,5}	YES ^{4,5}
Ketorolac	NO	NO	YES	YES	YES	YES

Levalbuterol	NO	YES	YES	YES	YES	YES
Levetiracetam	NO	NO	NO	YES ⁵	YES ^{5,6}	YES ^{5,6}
Lidocaine HCl	NO	NO	NO	YES	YES	YES
LORazepam	NO	NO	NO	YES	YES	YES
Magnesium Sulfate	NO	NO	NO	YES	YES	YES
Mannitol	NO	NO	NO	NO	YES ⁶	YES ⁵
Metaproterenol	NO	NO	NO	NO	YES ^{5,6}	YES ^{5,6}
MethylPREDNISolone	NO	NO	YES	YES	YES	YES
Midazolam	NO	NO	NO	YES	YES	YES
Milrinone	NO	NO	NO	YES ⁵	YES ^{5,6}	YES ^{5,6}
Morphine sulfate	NO	NO	NO	YES	YES	YES
Naloxone (unless otherwise specifically listed). <i>Note</i> —autoinjector listed separately	NO	NO	YES	YES	YES	YES
Naloxone, intranasal or autoinjector. <i>Note</i> —EMRs and EMTs must complete additional required education with QRS or BLS service participating in naloxone program	YES ¹	YES ¹	YES	YES	YES	YES
Nerve agent antidote kit, autoinjector only (may include atropine, pralidoxime and diazepam)	NO	YES ⁸	YES ⁸	YES	YES	YES
Nicardipine	NO	NO	NO	YES ⁵	YES ^{5,6}	YES ^{5,6}
Nondepolarizing neuromuscular blocking agents: all types, intravenous bolus during rapid sequence induction, assisting PHRN, PHPE or PHP	NO	NO	NO	NO	YES ⁶	YES ⁶
Nondepolarizing neuromuscular blocking agents: all types, intravenous infusion during interfacility transport	NO	NO	NO	NO	YES ⁵	YES ⁵
Nitroglycerin, intravenous and topical	NO	NO	NO	YES	YES	YES
Nitroglycerin, sublingual (unless otherwise specifically listed)	NO	NO	YES	YES	YES	YES
Nitroglycerin, sublingual, assist with patient's own prescribed medication	NO	YES	YES	YES	YES	YES
Nitrous oxide	NO	NO	YES	YES	YES	YES
Norepinephrine	NO	NO	NO	YES	YES	YES

Normal Saline Solution (0.9% NaCl solution for intravenous volume infusion)	NO	NO	YES	YES	YES	YES
Ondansetron	NO	NO	YES	YES	YES	YES
Oxygen, delivered by devices within the published scope of practice for the EMS provider	YES	YES	YES	YES	YES	YES
Oxytocin	NO	NO	NO	YES	YES	YES
Pantoprazole	NO	NO	NO	YES ⁵	YES ^{5,6}	YES ^{5,6}
Phenylephrine	NO	NO	NO	YES ⁵	YES ⁵	YES ⁵
Potassium Cl (in concentrations above 20 mEq/L)	NO	NO	NO	NO	YES ^{5,6}	YES ^{5,6}
Plasma Protein Fraction	NO	NO	NO	YES ⁵	YES ^{5,6}	YES ^{5,6}
Pralidoxime	NO	NO	NO	YES	YES	YES
Procainamide	NO	NO	NO	YES	YES	YES
Propofol	NO	NO	NO	YES ⁵	YES ^{5,6}	YES ^{5,6}
Prostaglandins: all types	NO	NO	NO	NO	YES ⁶	YES ⁶
Quinidine sulfate/ quinidine gluconate	NO	NO	NO	NO	YES ⁶	YES ⁶
Sodium bicarbonate	NO	NO	NO	YES	YES	YES
Sodium thiosulfate	NO	NO	NO	YES	YES	YES
Sterile water, for injection	NO	NO	NO	YES	YES	YES
Succinylcholine	NO	NO	NO	NO	YES ⁶	YES ⁶
Terbutaline	NO	NO	NO	YES	YES	YES
Tetracaine, topical, ophthalmic	NO	NO	YES	YES	YES	YES
Theophylline	NO	NO	NO	NO	YES ^{5,6}	YES ^{5,6}
Tirofiban	NO	NO	NO	YES ⁵	YES ^{5,6}	YES ^{5,6}
Tocolytics: all types (unless otherwise specifically listed)	NO	NO	NO	NO	YES ⁶	YES ⁶
Total Parenteral Nutrition	NO	NO	NO	YES ^{5,14}	YES ⁵	YES ⁵
Tranexamic Acid	NO	NO	NO	YES	YES	YES
Verapamil	NO	NO	NO	YES	YES	YES
Medications not listed previously, but within Department-approved air ambulance service protocol for use by PHRN, PHPE and PHP	NO	NO	NO	NO	NO	YES ⁶

**Table 2. Medications required to be carried by a specified EMS vehicle based upon the type of EMS service an EMS agency is licensed to provide.
(R=Required)**

Medication	QRS	BLS	IALS	ALS	CCT	Air
Adenosine				R	R	R
Alcohol prep pad		R	R	R	R	R
Aspirin, oral		R	R	R	R	R
Atropine sulfate				R	R	R
Benzodiazepines (diazepam, lorazepam or midazolam)—At least one type must be carried.				R ^{11,13}	R ^{11,13}	R ^{11,13}
Bronchodilators (nebulizer solution), (albuterol, albuterol with ipratropium or levalbuterol)—At least one type must be carried.			R	R	R	R
Dextrose (for intravenous bolus in concentration between 10%—50%)			R	R	R	R
DiphenhydrAMINE HCl				R	R	R
EPINEPHrine HCl, 1 mg/mL concentration (IALS may meet requirement with EPINEPHrine as autoinjector—both adult and pediatric dose sizes—or as solution in vial/ampoule; ALS, CCT, and Air must carry 1 mg/mL in vial or ampoule)			R	R	R	R
EPINEPHrine HCl, 0.1 mg/mL concentration				R	R	R
Glucagon					R	R
Glucose, oral		R	R	R	R	R
Lidocaine HCl				R	R	R
Naloxone (restrictions on forms for QRS/BLS services listed separately)			R	R	R	R
Narcotic analgesics (fentaNYL or morphine sulfate)—At least one type must be carried.				R ^{12,13}	R ^{12,13}	R ^{12,13}
Nitroglycerin, sublingual			R	R	R	R
Normal Saline Solution (0.9% NaCl solution for intravenous volume infusion)			R ¹⁵	R ¹⁵	R ¹⁵	R ¹⁵
Oxygen		R	R	R	R	R
Sodium bicarbonate				R	R	R
Medications within Department-approved air ambulance service protocol for use by PHRN, PHPE and PHP.						R

QRS—Quick Response Service; BLS—Basic Life Support ambulance service; IALS—Intermediate Advanced Life Support ambulance service; ALS—Advanced Life Support ambulance service; CCT—Critical Care Transport ambulance service; Air—Air ambulance service.

1. EMRs and EMTs are restricted to administering this medication by intranasal and intramuscular autoinjector routes only, consistent with Statewide BLS protocols.
2. EMTs are restricted to administering this medication by intranasal and intramuscular autoinjector routes only, consistent with Statewide BLS protocols.
3. AEMTs are restricted to administering this medication by intramuscular route only, consistent with Statewide AEMT protocols. AEMTs may not administer this medication by intravenous or intraosseous route.

4. Permitted for services that meet Department requirements for training, medication stocking, and any agency or quality improvement requirements, as verified by the agency's assigned regional EMS council.

5. During interfacility transport, Ps who are authorized to function for an EMS agency that has been licensed as an ALS, CCT or air ambulance service are restricted to the maintenance and monitoring of medication and blood administration that is initiated at the sending medical facility.

6. If carried on a CCT ambulance, this medication must be secured so that it is only accessible when a PHRN, PHPE or PHP is part of the crew. Ps who are authorized to function for an EMS agency that has been licensed as a CCT or air ambulance service may only administer this medication when in the direct physical presence of, and supervised by, a PHRN, PHPE or PHP.

7. May administer to a patient when assisting an EMS provider above the level of AEMT who has determined the dose for the patient consistent with Statewide ALS protocols.

8. For self or peer rescue only.

9. One listed type of bronchodilator medication must be carried on each licensed vehicle.

10. Appropriate for community or peer programs under the oversight of the EMS Agency Medical Director, but not for responses to 9-1-1 calls.

11. One benzodiazepine class medication must be carried on each licensed vehicle.

12. One opioid class medication must be carried on each licensed vehicle.

13. For additional information relating to security and medication tracking requirements for controlled substances, see 28 Pa. Code § 1027.5.

14. May be continued by a P if potassium concentration is 20 mEq/L or less.

15. May substitute an isotonic crystalloid solution in accordance with written medical director agreement and Statewide protocols.

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DR. DEBRA L. BOGEN,
Acting Secretary

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