



# Memorandum

To: All WNY AEMT and ALS EMS Agencies

From: Brian Clemency, DO  
WREMAC Chairman

Cc: Southwestern Regional EMS Council  
Wyoming-Erie Regional EMS Council  
Big Lakes Regional EMS Council  
Southern Tier EMS  
Office of Prehospital Care  
Lake Plains Community Care Network

Re: IV Fluid and Medication Minimum Stocking Requirements

Date: REVISED: November 20, 2013  
SUPERSEDES: October 21, 2011

---

The Western Regional Emergency Medical Advisory Committee (WREMAC) has updated the minimum stocking requirements for IV fluids and medications. This list supersedes all previous WREMAC publications and reflects the fluid and medication stocking requirements in the 2014 WREMAC Adult and Pediatric Protocols.

The attached list has two components by level of care: ***Required Fluids & Medications*** and ***Optional Fluids & Medications***.

**Required** fluids and medications represent the minimum list of supplies to be considered “in service” as an AEMT or ALS unit.

**Optional** fluids and medications is a list of supplies that may be carried **in addition to the required list but only with your medical director’s written approval.**

If you have any questions concerning this list, please contact your regional program agency or medical director. A list of regional program agencies has been provided below.

Thank you for your time and dedication to the patients in our region!

**EMS Program Agencies:**

Niagara, Orleans, & Genesee Counties	<b>Lake Plains CCN:</b>	585-345-6110
Erie & Wyoming Counties	<b>Office of Prehospital Care:</b>	716-898-3600
Chautauqua, Cattaraugus, Allegany Counties	<b>Southern Tier EMS:</b>	716-372-0614

## **REQUIRED BLS/AEMT Fluids & Medications**

*Please note: minimum dose is in reference to the amount needed for one call.  
Additional stock should be on hand at all times!*

### **BASIC LEVEL UNITS:**

<b><u>Medications</u></b>	<b><u>Minimum Quantity on Unit</u></b>
Epi-Pen	2 Adult & 2 Junior
Albuterol	2.5 mg in 3 ml (unit dose) – 3 doses
Aspirin 81mg and/or 325mg tablet	1 bottle

### **INTERMEDIATE LEVEL UNITS:**

<b><u>Fluids &amp; Medications</u></b>	<b><u>Minimum Quantity on Unit</u></b>
Epi-Pen	2 Adult & 2 Junior
Albuterol	2.5 mg in 3 ml (unit dose) – 3 doses
Aspirin 81mg and/or 325mg tablet	1 bottle
D10W	1000mL
Normal Saline Solution (.9%)	5000mL

### **AEMT LEVEL UNITS:**

<b><u>Fluids &amp; Medications</u></b>	<b><u>Minimum Quantity on Unit</u></b>
Normal Saline Solution (.9%)	5000mL
Epi-Pen	2 Adult & 2 Junior
Albuterol	2.5 mg in 3 ml (unit dose) – 3 doses
Aspirin 81mg and/or 325mg tablet	1 bottle
Dextrose 50% (D <sub>50</sub> ) 25 grams	2 (50 grams)
Dextrose 25% (D <sub>25</sub> ) 12.5 grams	2 (25 grams)
Epinephrine 1:10,000	10 mg
Glucagon	1mg
Naloxone (Narcan)	2mg
Nitroglycerin 0.4mg tablets	1 Bottle

## **REQUIRED ALS Fluids & Medications**

*Please note: minimum dose is in reference to the amount needed for one call.*

*Additional stock should be on hand at all times!*

### **CRITICAL CARE AND PARAMEDIC LEVEL UNITS:**

#### **Fluids & Medications**

#### **Minimum Quantity on Hand Dose**

D5W solution <sup>(1)</sup>	1000 mL
Normal Saline solution	5000 mL
Adenosine	30 mg
Albuterol	2.5 mg in 3 ml (unit dose) – 3 doses
Amiodarone	450 mg
Aspirin 81mg and/or 325mg tablet	1 bottle
Atropine	3mg
Calcium Chloride	1g
Dextrose 50% (D <sub>50</sub> ) 25 grams	2 (50 grams)
Dextrose 25% (D <sub>25</sub> ) 12.5 grams	2 (25 grams)
Diazepam <i>or</i> Midazolam (lorazepam per MD)	According to CS operations plan <sup>(2)</sup>
Diltiazem <i>or</i> Metoprolol <i>or</i> Verapamil	Diltiazem (40 mg); Metoprolol (10 mg); Verapamil (10 mg)
Diphenhydramine	50 mg
Dopamine	400 mg
Epinephrine 1:1,000	4mg
Epinephrine 1:10,000 <sup>(3)</sup>	10mg
Glucagon <sup>(4)</sup>	1 mg
Hydrocortisone <i>or</i> Methylprednisolone	Hydrocortisone (100 mg); Methylprednisolone (125 mg)
Ipratropium (Atrovent)	0.5 mg in 3 ml (unit dose) – 3 doses
Magnesium Sulfate	4 g
Morphine Sulfate	According to CS operations plan
Methylprednisolone <i>or</i> Prednisone	Methylprednisolone (125 mg); Prednisone (50 mg)
Naloxone (Narcan)	2 mg
Nitroglycerine 2% ointment	1 tube
Nitroglycerine 0.4mg tablets	1 bottle
Ondansetron (Zofran)	8 mg
Sodium Bicarbonate (8.4%)	100 mEq
Sodium Thiosulfate	12.5 g
Thiamine	100 mg

<sup>(1)</sup>Medical Director may authorize agency to carry less D5W if agency carries pre-mixed Dopamine and/or Magnesium Sulfate.

<sup>(2)</sup>ALL ALS agencies MUST (according to 2013 SEMSCO resolution) obtain their own CS license by 5-1-2015.

<sup>(3)</sup> Less Epi 1:10,000 may be required if medical director substitutes Vasopressin in Cardiac Arrest protocols

<sup>(4)</sup> If following medical command treatment options a total of 2 mg will be carried.

## **OPTIONAL Medications**

*Please note: Agency must stock all “required medications” in addition to “optional medications”.  
Optional medications may only be used with **written authorization** from medical director!*

### **Minimal stock levels to be established by agency medical director**

MARK 1 kit (3) *or*  
AtroPen (3) *or*  
Atropine (20 mg)

Anesthetic spray (e.g. Benzocaine 20%) *or*  
Lidocaine jelly 2%

Cimetadine – 300 mg  
Cyanokit – 1 kit (may be used to replace Adult dose of Sodium Thiosulfate)  
Famotidine – 20 mg  
Fentanyl – Per CS Operations Plan  
Furosemide (Lasix) – 40mg  
Midazolam (Versed) – 5 mg  
Naloxone 2mg – with nasal atomizer  
Procainamide – max dose is 17 mg/kg  
Ranitidine – 50 mg  
Succinylcholine – 1.5 mg/kg  
Terbutaline – .25 mg  
Vasopressin – 40 Units

### **Medication Facilitated Intubation (Required Medications)**

Etomidate (Amidate) - 0.3 mg/kg  
**AND**  
Vecuronium – 0.1 mg/kg *or* Rocuronium 1mg/kg  
**AND**  
Midazolam (Versed) – 2 mg every 15 minutes if hemodynamically stable  
**OR**  
Lorazepam (Ativan) – 2 mg every 15 minutes if hemodynamically stable  
**OR**  
Diazepam (Valium) – 5 mg every 15 minutes if hemodynamically stable