



# Memorandum

To: All WNY ILS and ALS EMS Agencies

From: Jeffrey W. Myers, 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: September 20, 2011  
SUPERSEDES: August 20, 2009

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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 2011 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 ILS 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 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:

<u>Medications</u>	<u>Minimum Quantity on Unit</u>
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:

<u>Fluids &amp; Medications</u>	<u>Minimum Quantity on Unit</u>
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

## CRITICAL CARE AND PARAMEDIC LEVEL UNITS:

<u>Fluids &amp; Medications</u>	<u>Minimum Quantity on Hand Dose</u>
D5W solution	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> Lorazepam <sup>(1)</sup>	According to CS operations plan
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>(2)</sup>	10mg
Glucagon <sup>(3)</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 Bicarbonate (4.2%)	50 mEq
Sodium Thiosulfate	12.5 g
Thiamine	100 mg

<sup>(1)</sup> Lorazepam only if Diazepam is unavailable. Additional quantity may be necessary if agency credential to perform MFI.

<sup>(2)</sup> Less Epi 1:10,000 may be required if medical director substitutes Vasopressin in Cardiac Arrest protocols

<sup>(3)</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  
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  
**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