

# EXHIBIT D



**Ground Ambulance Equipment and Supply List**

This is the minimum equipment and supplies required on-board during response and patient transport for BLS (Class B) and ALS (Class C) EMS vehicles. All equipment must be operational. When applicable, items must be sealed and within current expiration period. All supplies and equipment (i.e.: monitors/defibrillators, drug bags/boxes, etc.) must be in enclosed compartments or otherwise secured to restrict movement in the event of vehicle crash. All oxygen cylinders must be secured with brackets that meet Ambulance Manufacturer's Division oxygen tank retention standard 003.

Item	Vehicle Type	
	Class B BLS	Class C ALS
	Quantity	Quantity
<b>A. Airway and Ventilation</b>		
Fixed suction system, electric powered with disposable collection container and large bore tubing, assembled and ready for use	1	1
Portable suction unit, assembled and ready for use – commercially available manual unit is acceptable	1	1
Large bore rigid oral suction catheters – must have internal diameter greater than or equal to 0.25 inches	2	2
Flexible suction catheters – 6F, 10F and 14F	2 each	2 each
Salem sump tubes – 8F, 12F and 18F with irrigation syringe	N/A	1 each
Meconium aspirator ET-tube adaptor	N/A	1
On-board oxygen system ("M"-size cylinder or equivalent) with 2 wall outlets	1	1
Adjustable oxygen flow regulators	2	2
Portable oxygen system with non-gravity dependent oxygen flow regulator	1	1
Full spare portable oxygen cylinder ("D"-size or larger)	1	1
Adult nasal cannula	4	4
Pediatric nasal cannula	2	2
Adult non-rebreather (NRB) mask	4	4
Pediatric non-rebreather (NRB) mask	2	2
Oxygen connection tubing – may be with BVM or nebulizers	2	2
Nasopharyngeal airways – assorted sizes, 16F – 34F. No less than 5 different sizes	1 set	1 set
Oropharyngeal airways – sizes 0 through 5	1 set	1 set
Combitube -OR- King LT/LT-D airway kits – sizes 3, 4, and 5.	1 each	1 each
Adult end-tidal CO2 detectors – colorimetric or qualitative	2 each	2 each
Pediatric end-tidal CO2 detectors – colorimetric or qualitative. (Optional at BLS level if pediatric King airways are utilized)	N/A	2 each
Laryngoscope handle with extra batteries	N/A	1 each
Laryngoscope blades - 0 & 1 straight; 2, 3, 4 straight or curved, with spare bulbs if applicable	N/A	1 each
Et tubes, sizes:		
2.5 uncuffed	N/A	2 each
3.0 or 3.5 uncuffed	N/A	2 each
4.0 or 4.5 cuffed or uncuffed	N/A	2 each
5.0 or 5.5 cuffed or uncuffed	N/A	2 each
6.0 or 6.5 cuffed	N/A	2 each

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7.0 or 7.5 cuffed	N/A	2 each
8.0 or 8.5 cuffed	N/A	2 each
ET-tube stylettes, adult and pediatric	N/A	1 each
Magill forceps, adult and pediatric	N/A	1 each
Chest decompression large bore needle, minimum of 3.25" length 14 - 16 gauge for adult and 1.25"-1.5" 16 gauge for pediatrics	N/A	1 each
Adult, child and infant bag valves, self-filling with oxygen reservoir	1 each	1 each
Clear masks for bag valves, sizes: adult, child, infant and neonatal	1 each	1 each
Percutaneous Airway Kit - (example: Quick Trach 1® or Quick Trach 2® or other commercially available non-surgical kit.)	N/A	1
<b>B. Monitoring and Assessment</b>		
Blood pressure cuffs – thigh, adult and child sizes	1 each	1 each
Stethoscope, suitable for adult and pediatric use	1	1
AED with adult and pediatric defibrillator pads	1	N/A
Glucometer with single-use fully disposable lancets and glucose strips	1	1
Pulse oximeter for adult and pediatric use	1	1
Thermometer, capable of measuring a range of 86°-105° F	1	1
Patient monitoring system capable of cardiac rhythm monitoring, 12-lead acquisition, data transmission, transcutaneous pacing, defibrillation and cardioversion	Optional	1
Spare battery for patient monitoring system	N/A	1
Adult and pediatric defibrillation and transcutaneous pacing cables and pads for patient monitoring system	N/A	2 each
Cables, probes and supplies for ECG monitoring and pulse oximetry monitoring	Optional	---
<b>C. Immobilization Equipment</b>		
Rigid cervical collar – large, medium, small and child <b>-OR-</b> adjustable cervical collar – adult and pediatric	2 each	2 each
Head/cervical immobilization devices – towel/blanket rolls are acceptable	2	2
Short spinal immobilization device – KED, XP-1 or equivalent	1	1
Radiolucent, fluid impervious full-length backboards	2	2
Three 9-foot immobilization straps or equivalent	2 sets	2 sets
Traction splint(s), adult and child <b>OR</b> single splint adjustable for both	1 each	1 each
Padded extremity splints	2 each	2 each
<b>D. Wound Management</b>		
Sterile burn sheets	2	2
Sterile 10" x 30" multi-trauma dressings	2	2
Sterile ABD pads, 5" x 9" or larger	2	2
Sterile 4"x4"s	24	24
Sterile occlusive dressings, 3" x 8" or larger	2	2
Adhesive tape, assorted sizes and types. One roll must be hypoallergenic/latex-free	4 rolls	4 rolls
Self-adhering gauze bandages – Kling or equivalent	8 rolls	8 rolls
Triangular bandages	4	4
Commercial Arterial Tourniquet – CAT®, MAT®, etc.	2	2

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Heavy-duty bandage scissors or shears	1	1
Sterile saline irrigation, 1000ml total	---	---

<b>E. Infection Control – Quantities and sizes of all PPE must be sufficient for entire crew.</b>		
Protective eyewear – full peripheral glasses, goggles or face shield	---	---
NIOSH N-95 or N-100 face masks	---	---
Protective gowns or coveralls	---	---
Protective shoe covers	---	---
Disposable exam gloves meeting NFPA 1999 requirements – assorted and appropriate sizes. Must include hypoallergenic/latex-free types	---	---
Disinfectant waterless hand cleaner	---	---
Disinfectant for cleaning vehicle interior and equipment	---	---
Biohazard trash bags	2	2
Fixed and portable sharps containers	1 each	1 each
<b>F. Medications</b>		
Acetaminophen (Tylenol®), 160mg/5mL oral suspension	1 bottle	1 bottle
Albuterol, 2.5mg/3mL unit dose ampule	2	2
Albuterol/Ipratropium (Duo-Neb®), 2.5mg/0.5mg in 3mL unit dose ampule	4	4
Amiodarone, 350mg total (May be substituted with Lidocaine)	N/A	---
Amiodarone, 150mg pre-mixed solution (May be substituted with Lidocaine)	N/A	1
Aspirin, 81mg chewable tablets	1 bottle	1 bottle
Adenosine (Adenocard®), 18mg total	N/A	---
Atropine, 1mg pre-loaded syringe	N/A	3
Combivent® -OR- Duoneb® - 2.5mg Albuterol mixed with 0.5mg Ipratropium Bromide. (Squads may also choose to carry Albuterol and Ipratropium Bromide individually and mix them per the Optional Medication List M.)	2	2
D <sup>50</sup> W, 25g pre-loaded syringe	N/A	2
Diltiazem (Cardizem®), 100mg total – ADD-Vantage® system or equivalent	N/A	---
Diphenhydramine (Benadryl®), 100mg total	N/A	---
Dopamine (Intropin®), 400mg pre-mixed solution	N/A	1
Epinephrine, 1:10,000, 1mg pre-loaded syringe	N/A	6
Epinephrine, 1:1,000, 1mg total (BLS MUST carry Epi 1:1000 -OR- Epi Pens as outlined in optional medications section M.)	Optional	2
Fentanyl (Sublimaze®), 200mcg total	N/A	---
Furosemide (Lasix®), 100mg total	N/A	---
Glucagon, 1mg	N/A	---
Haloperidol (Haldol®), 10mg total	N/A	---
Labetalol, 30mg total	N/A	---
Lidocaine (Xylocaine®), 100mg pre-loaded syringe (May be substituted with Amiodarone.)	N/A	3
Lidocaine (Xylocaine®), 1gm pre-mixed solution (May be substituted with Amiodarone.)	N/A	1
Magnesium Sulfate, 1g total	N/A	---
Midazolam (Versed®), 10mg total	N/A	---
Morphine Sulfate, 20mg total	N/A	---

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Naloxone (Narcan®), 4mg total	---	---
Nitroglycerin, 0.4mg (1/150) tablets or spray	1 bottle	1 bottle
Normal Saline (0.9%), 1,000ml	N/A	4
Ondansetron (Zofran®), 8mg total	N/A	---
Ondansetron (Zofran®) 4mg ODT	2 tablets	Optional
Oral Glucose, 15g tubes	2	2
Thiamine, 100mg total	N/A	---
<b>G. OB Equipment</b>		
Sterile OB kits with bulb syringe	2 each	2 each
Thermal absorbent blanket and head cover made of a heat-reflective material	1 each	1 each.
<b>H. Safety - Quantities and sizes of all PPE must be sufficient for entire crew.</b>		
Protective helmet meeting ANSI Z89.1 Type II, NFPA 1908-2007 or NFPA 1951-2007 standards	---	---
Protective eyewear meeting ANSI Z87.1-2003 standards	---	---
High visibility clothing compliant with 23 CFR Part 643 (Federal Highway Worker Visibility Act) ANSI/ISEA 107-2004-Class 3 or 207.	---	---
Protective gloves, extrication-type or heavy-duty leather	---	---
Current DOT Emergency Response Guidebook (paper or electronic version)	1	1
Fire extinguisher, 5lb 2A-10BC	1	1
Pedi-Mate® child occupant protection system	1	1
Chemical light sticks or reflective triangles, etc.	3	3
<b>I. Miscellaneous</b>		
Blankets	2	2
Cold packs	4	4
Disposable bedpan	1	1
Disposable, splash resistant emesis bags	4	4
Flashlights	2	2
Hot packs	4	4
Impermeable body bag	1	1
Pillow	1	1
Sheets	4	4
Stair chair or suitable substitute	1	1
Towels	2	2
Urinal	1	1
Wheeled stretcher, multi-level, with 5-point (over shoulder) patient restraint system	1	1
WV triage tags	25	25
WV triage tape rolls – red, yellow, green and black	1 each	1 each
Protocol manuals appropriate for level of staffing (paper or electronic version)	---	---
<b>J. IV and Medication Administration</b>		
Mini-drip IV administration set, 60gtts/ml. May utilize Select-3® sets or equivalent	N/A	4
Macro-drip IV administration set, 10 to 15gtts/ml. May utilize Select-3® sets or equivalent	N/A	4
Extension sets. May utilize Select-3® sets or equivalent	N/A	4

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IV spike to luer lock adapter ( <i>required for Add Vantage Diltiazem administration</i> )	N/A	2
Saline locks and flushes	N/A	4
IV catheters, sizes 14g, 16g, 18g, 20g, 22g and 24g	N/A	4 each
EZ-IO driver	N/A	1
EZ-IO needles – adult, pediatric and bariatric	N/A	2 each
Adequate site preparation materials – alcohol or povidone	---	---
Venous tourniquets	N/A	---
Nebulizer kits	2	2
Drug atomizers	2	2
Syringes in appropriate quantities and sizes – 1ml, 3ml, 5ml, 10ml, 30ml, 60ml	2 each	2 each
Needles in appropriate quantities, sizes and lengths. Some greater than 1.5” in length for IM medication administration	---	---
Length/weight based pediatric drug and equipment reference – <i>Broselow</i> tape or equivalent	1	1
<b>K. Two-Way Communications</b>		
Between vehicle, dispatcher and 911 center (if applicable)	---	---
Between vehicle and regional command	---	---
For disaster operations	---	---
<b>L. Optional Equipment and Supplies</b>		
Blood sample tubes and supplies	---	---
Capnography (Required for RSI agencies)	---	---
Commercially available soft restraints	1 set	1 set
CPAP device with 2 masks and tubing circuits	---	---
Cyano-Kit	---	---
Elastic bandages	---	---
ET Tube Introducer	N/A	---
Heimlich valves	N/A	---
Hemostatic dressings. Must be impregnated gauze-type hemostatic agent	---	---
IV fluid warmer		
IV infusion pump	N/A	---
Morgan Lens	---	---
Needle jet insufflation device	N/A	---
Non-invasive vital signs monitor	---	---
Pediatric King Airways - sizes 2 and 2.5	1 each	1 each
Pediatric end-tidal CO2 detectors – colorimetric or qualitative	1	N/A
Pediatric spinal immobilization device	---	---
Pelvic immobilization device	---	---
Pocket Mask	---	---
Simple ventilator	N/A	---
Vacuum splints	---	---
Video Assisted Laryngoscope	N/A	1
<b>M. Optional Medications</b>		
EpiPen	1	N/A
EpiPen Jr.	1	N/A



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Etomidate (Amidate®), 80mg total	N/A	RSI ONLY
Sodium Bicarbonate, 50mEq pre-loaded syringe	N/A	Optional
Succinylcholine, 400mg total.	N/A	RSI ONLY
Vecuronium (Norcuron®), 20mg total	N/A	RSI ONLY
Tetracaine (0.5%), 2mL total	---	---
Ipratropium Bromide (Atrovent®) 500 microgram unit dose ampules	2	2

**Policy Name: Exterior EMS Vehicle Markings Policy**  
**Policy Number: 5.1.3-041613**

**Purpose:** To ensure all licensed EMS vehicles are, marked consistently and conspicuously to provide increased vehicle visibility and safety for EMS personnel and the citizens of WV.

**Policy:** All WV licensed ground transport EMS vehicles shall be marked and readily discernible as an EMS vehicle according to the standards and rules provided and adopted by the WVOEMS as recommended in NFPA 1917

**Procedure / Requirements:**

**A. Reflective Striping:**

1. A retro reflective stripe or combination of stripes shall be affixed to the ambulance in the following proportions:
  - a. Vehicle Front
    - i. A Four inch (4") wide retro reflective stripe must be visible across 25% of the front of the vehicle. This stripe may contain the word "ambulance" in contrasting colors.
  - b. Rear Chevron:
    - i. At least 50% of the rear-facing vertical surfaces shall be equipped with retro reflective striping in a chevron pattern sloping downward and away from the centerline of the vehicle at an angle of 45 degrees.
    - ii. Each stripe in the chevron shall be a single color alternating between two (2) high contrast colors.
    - iii. Each stripe shall be six inches (6") in width.
    - iv. Colors that meet ASTM D4956, Standard for Retro-reflective Sheeting for Traffic Control, Section 6.1.1 for Type I Sheeting are White, Green, Orange, Red, Blue, Brown, Fluorescent Yellow-Green, Fluorescent Yellow and Fluorescent Orange.
  - c. Side Markings:
    - i. The stripe or combination of stripes shall be a minimum of four inches (4") in total vertical width.
    - ii. The four inch (4") wide stripe or combination of stripes can be interrupted by objects (i.e. receptacles, cracks between slats in the roll up doors, etc.) provided the full stripe is conspicuous when approaching the vehicle.
    - iii. A graphic design is permitted to replace all or part of the required striping material for side markings if the design or combination thereof covers the same perimeter length(s).
  - d. Contour Edge Markings:
    - i. A two inch ("2") wide vehicle side boundary contour or edge marking shall be visible to establish the vehicles size to approaching vehicles. The color of the contour markings may be the same color as the primary color of the ambulance.

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Approved:



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- e. Star of Life
  - i. A blue twelve inch (12") "Star of Life"™ emblem shall appear on both sides and the rear of the vehicle.
- f. Vehicle Lettering:
  - i. An EMS vehicle may only be lettered with the terms "Paramedic", "Advance Life Support", "Critical Care Transport", or similar service-level designations when the vehicle is both equipped and staffed by appropriately certified EMS personnel.
  - ii. The public access emergency telephone number 9-1-1 shall be displayed on the ambulance. Specialized Multi Patient Medical Transport (SMPMT) and non-public access EMS vehicles may display a different number.

**Special Note:** All new vehicles will be defined as any vehicle new or used that has been added to an agencies fleet after the effective date of this policy.

Some of the standards and studies considered for this policy are located in KKK A 1822 standards (which may now be outdated), NFPA 1917 and FEMA Emergency Vehicle Visibility and Conspicuity Study. All of these standards have been considered with the intent to increase visibility and safety for EMS personnel and the general public.

Agencies not following these recommendations must obtain request via writing that includes justification for not complying with these recommendations and written approval from OEMS before putting vehicles in service. The letter of approval from OEMS must be provided to the licensure inspector during vehicle permit inspections including spot inspections. A copy of the letter of approval must be maintained on all vehicles at all items that are not conforming to the recommendations.

**Retro Reflective Material Requirements:**

All retro reflective material shall conform to the requirements of ASTM D 4956, Standard *Specification for Retro reflective Sheeting for Traffic Control*, Section 6.1.1 for Type I Sheeting.

All retro reflective materials that are colors not listed in ASTM D 4956, Section 6.1.1, shall have a minimum coefficient of retro reflective of 10 with observation angle of 032 degrees and entrance angle of -4 degrees.

Any printed or processed retro reflective film construction shall conform to the standards required of an integral colored film as specified in ASTM D 4956, Section 6.1.1.

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All aeromedical rotor/fixed wing vehicles are exempted from these requirements.

Effective date of issuance

**APPLICABLE CODE AND RULE: WV CSR 64-48-5.1.k**

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