

Policy Title: **MedENGINES; Alternate response vehicles**

No. M - 9

Board approval: 4/15/10

Effective: ~~5/1/10~~ 4/12Supersedes: ~~5/1/09~~ 5/1/11

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Reference: IDPH EMS Rules Section 515.825 (December 15, 2000)

I. POLICY

- A. It is prudent to have some EMS equipment immediately available on Fire Department apparatus that may respond to a scene prior to the arrival of a state-authorized ambulance. The System supports Providers' effort to enhance their preparedness and customer service.
- B. The establishment of a MedEngine (alternate response non-transport vehicle) is purely optional. The System does not require EMS supplies on all fire apparatus. These vehicles shall be identified by the EMS agency as a program plan amendment outlining the type and level of response that is planned in compliance with IDPH EMS Rules and System policy.
- C. This policy is not intended to specify the drugs and equipment required on ALS squads. They shall meet all drug and supply requirements of an ALS ambulance except for patient conveyance devices; on-board oxygen and suction; and PASG.

- II. **Registration of non-transport agencies:** Each non-transport provider shall complete and submit a Non-Transport Provider Application to the Resource Hospital (Form NT 6/99) prior to the State vehicle inspection. The EMS Administrative Director shall process the completed application with IDPH.

- III. **Inspection of non-transport EMS provider:** Initial inspections shall be done by the IDPH Regional EMSC or her designee. If an ALS vehicle, the assigned Hospital EMSC/Educator must complete the ALS portion of the inspection. Thereafter, the non-transport provider shall perform annual BLS self-inspections, using forms supplied by IDPH, and shall submit the forms to the Resource Hospital upon completion of the inspection for processing of the renewal with IDPH. ALS inspections shall be completed every other year by the assigned Hospital EMSC/Educator. They shall be completed on the alternate years by the EMS agency at the same time as the ambulance inspections.

- IV. **Issuance and renewal of license:** Non-transport providers shall be issued a provider license that lists a number for each level of care approved. Licenses will not be issued for individual non-transport vehicles. Providers shall inform the Resource Hospital of any modification to the application using the System Modification forms (sys-mod). The EMS Administrative Director shall forward signed Sys-mod forms to IDPH. Licenses will be issued for one year and must be renewed by completing the annual inspections and forwarding the inspection forms to the Resource Hospital.

V. Personnel requirements

- A. BLS MedEngines must be staffed with a minimum of two EMTs.
- B. ALS MedEngines must be staffed with a minimum of one Paramedic/PHRN and one other EMT/PHRN. Two Paramedics or PHRNs are preferred. If an alternate response vehicle (MedEngine or Squad) is identified in an agency's EMS plan as reserve, it may respond with one paramedic and 1 EMT, EMR, or firefighter if it is responding due to multiple simultaneous calls.

- VI. EMS personnel responding on an alternate response vehicle (MedEngine) are held to the same scope of practice and standards of care as comparably licensed EMS personnel on ambulances. They have the same liability protection under the EMS Act. EMTs/PHRNs shall initiate care under the System's SOPs, Policies, and Procedures within their scope of practice and based on available equipment and assist in an orderly transition of care to the responding ambulance crew as specified in System policy.

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# needed	Product - must meet the specifications listed on the EMS Drug and Supply list
1	Irrigation solution(1000 mL); either NS or sterile water
1 each	Oropharyngeal airways: sizes 100, 90, 80, 60, 40 mm
1 each	Nasopharyngeal airways with lubricant sizes: 12Fr/3mm, 16Fr/4mm, 20Fr/5mm, 24Fr/6mm, 28Fr/7mm, 30Fr/7.5 mm
1	Manually operated suction unit; or battery powered suction unit and catheters
1	D or E O ₂ tank equipped with non-gravity dependent pressure gauge flow meter that will deliver up to 15 L (cylinder is to be full)
1	Adult nasal cannula
1	Adult non-rebreather mask
1	Peds non-rebreather mask
1	Adult disposable BVM that meets IDPH/system specs.
1	Peds disposable BVM that meets IDPH/system specs with child and infant masks.
1	Automated External Defibrillator (AED) with appropriate defib pads
1 ea	Epi-Pen adult and pediatric (only if not ALS)
1	Naloxone 2 mg/2 mL IN (with 2-3 mL syringe & needle)
2	MAD device
1	Penlight or flashlight
1 device	Glucose meter (Precision Xtra), and test strips (minimum 4 strips), and 2 lancets
1 ea	BP cuff (adult & child) with gauges
1	Stethoscope
4 pkgs	Sterile gauze pads 4X4s
2 pkgs	Sterile ABD's or trauma/universal dressings
2	Vaseline gauze dressings 3" X 8" or plastic wrap (for open pneumothorax)
4	Band-aids
1 roll	Self-adhering 6" X 5 yards roller bandage
1 roll	Adhesive tape
2	Cold packs
1 each	C-collars: Adjustable adult; peds; baby no-neck
1	Universal bandage scissors
1	Hand washing agent: topical germicide
2 sets	Personal protective equipment including non-porous disposable gloves, eye protection, surgical mask, and appropriately sized N-95 masks
1	Isolation bag
1	Blanket
	Equipment to allow communication with hospital

Note: The NWC EMSS requests an annual waiver from IDPH to exempt the requirement to carry long spine boards on alternate response non-transport vehicles.

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VI. **ALS MedEngine** – BLS supplies plus the following:

# needed	Product - meet the specifications of the equipment to be carried on ALS ambulances:
1	Albuterol 2.5 mg/3 mL with HHN and adaptors to deliver using BVM
2	Amiodarone 150 mg/3 mL amp
4	ASA chewable 81 mg/tablet
1	Diphenhydramine (Benadryl) 50 mg/1 mL preload
1	Dextrose 50% 25 Gm/50 mL preload
2	Epinephrine (1:10,000) 1 mg/10 mL preload
2	Epinephrine (1:1,000) 1 mg/1 mL (If ALS – do not need to carry EpiPens too)
1	Ipratropium bromide 0.02% (Atrovent) 0.5 mg in 2.5 mL NS (unit dose)
1	Midazolam 10 mg/2 mL
1	Naloxone 2 mg/2 mL
1 bottle	Nitroglycerin 0.4 mg tabs 25/bottle
1	Normal saline 1000 mL bag IV fluid
1 each	IV catheter over the needle devices (protected): 14, 16, 18, 20 gauge
1	IV tubing: regular drip
2	IV protective dressings
4 each	Alcohol wipes (ECG skin prep) and CHG/IPA skin preps
1	Tourniquet (disposable: Combat Application Tourniquet/C-A-T®)
1	Point of use sharps container
1 each	King LTS-D airway kits w 60 mL syringe & lubricant (size: 3/yellow, 4/red, 5 purple)
1 each	Choking kit: Laryngoscope handle & blade: Adult Mac/curved & Miller/straight - size 3
1 each	Choking kit: Extra bulbs for each laryngoscope blade
2 each	Choking kit: Extra batteries for laryngoscope handle
1	Choking kit: Magill or curved uterine forceps
1	Esophageal detector device
1	EtCO ₂ detector or capnography
1 ea	Syringes: 1 mL; 3 mL; 10-12mL; 20mL with needles
1	Cardiac monitor/defibrillator capable of external pacing with appropriate defib pads. Semi-automated AED with manual over-ride option based on waiver. 12-lead capability preferred if ambulance not immediately available.
20	ECG electrodes (& 1 washcloth/towel for skin prep)
Optional	
1 ea	EZ-IO driver & adult blue/15mm needle
1	ResQPod impedance threshold device
1	C-PAP mask
2	QuikClot (Zeolite) – 1 st Response Advanced Clotting Sponge