1.0 Purpose
1.1 The purpose of this SOP is to establish the ambulance company standards for member companies of the Maryland State Firemen’s Association.

2.0 Responsibilities
2.1 EMS Committee - The MSFA Committee having the responsibility for formulating standards for ambulances operated by members of the MSFA.

2.2 The Executive Committee - The MSFA committee having the responsibility of review and oversight of the EMS Committee and for reviewing the initial release and revision of the SOPs of the MSFA.

2.3 MSFA President - The officer responsible for final approval of the MSFA SOPs.

3.0 Procedure
3.1 Every ambulance shall be equipped with medical supplies and equipment as follows:

**GENERAL SUPPLIES AND EQUIPMENT**

1) Twenty-four (24) each Sterile gauze pads (4” X 4” minimum)
2) Two (2) rolls 2” adhesive tape (some hypo-allergenic must be available)
3) Two (2) rolls 1” adhesive tape (some hypo-allergenic must be available)
4) Twelve (12) each Cravats (Triangular Bandages)
5) Twelve (12) rolls 4” self-adhering gauze bandages
6) Four (4) each Cold packs
7) One (1) box Assorted plastic bandage strips
8) Six (6) each Sterile sanitary napkins (or highly absorbent dressings)
9) Five (5) each Sterile Trauma Dressings (5” X 9” minimum)
10) One (1) each Poison Kit
11) Three (3) each glucose supplements
12) One (1) each Penlight (narrow beam flashlight is acceptable)
13) One (1) each Adult BP cuff, regular and obese (sphygomanometer)
14) One (1) each Pediatric BP cuff (sphygmomanometer)
15) One (1) piece Non-adherent material for occlusive dressing
   (18”X25”minimum-metal foil is not acceptable)
16) One (1) each Adult PASG with passive relief valves
17) Two (2) liters Sterile saline or sterile water
18) Two (2) each Sterile or clean sheets for burns (individually wrapped)
19) One (1) box Exam gloves (assorted sizes-OSHA standards will be followed)
20) Two (2) each Emesis basins
21) One (1) each Urinal
22) One (1) each Stethoscope
23) One (1) pair Bandage Scissors
24) One (1) each Container of disinfecting solution for ambulance (OSHA standards will be followed)
25) One (1) box Facial tissue
26) One (1) each Maryland Triage tag kit
27) One (1) each Sterile obstetrical (OB) kit containing: One (1) large towel or receiving blanket, Four (4) pairs sterile gloves (assorted sizes), Twelve (12) each sterile 4X4 gauze pads, Four (4) each umbilical clamps or ties, Two (2) sanitary napkins (or comparable absorbent dressings), One (1) bulb syringe for suctioning, and One (1) pair blunt scissors. (A commercially available OB kit may be substituted for these items)
28) One (1) each Rescue shears
29) Four (4) each Surgical masks
30) Four (4) each Gowns through which blood and/or body fluids cannot penetrate
31) Four (4) each Eye/face shields (NOTE: May be combined with surgical masks) NOTE: Items 29-31 may be combined into a bio-hazard kit carried on the ambulance.
32) Five (5) each Plastic, seal able bags with bio-hazard stickers
33) One (1) each bedpan
34) Two (2) each IV solution hangers
35) One (1) trash can

PORTABLE FIRST AID KIT
1) Twenty-four (24) each Sterile gauze pads (4”X4” minimum)
2) One (1) roll 2” adhesive tape (hypo-allergenic)
3) One (1) each Rescue shears
4) Eight (8) each Cravats (triangular bandages)
5) One (1) set Oropharyngeal airways (assorted sizes, 0-5)
6) One (1) each Ring cutter
7) One (1) each Stethoscope
8) One (1) each BP cuff (adult sphygmomanometer)
9) One (1) each Bandage scissors
10) One (1) each Penlight (narrow beam flashlight is acceptable)
11) Six (6) rolls 4” self-adhering gauze bandages
12) Two (2) rolls 6” self-adhering gauze bandages
13) Four (4) each Sterile trauma dressing (5”X9” minimum)
14) One (1) each Patient Marking pen
15) One (1) each Kit large enough to carry above equipment (dust and water resistant)
16) Two (2) pairs Exam gloves
17) One (1) set Nasopharyngeal Airways (assorted sizes)

**AIRWAY MAINTENANCE SUPPLIES**

1) One (1) each Portable oxygen resuscitator of at least 300 L capacity. Two (2) size “D” or one (1) size “E” extra medical oxygen (green for steel cylinders, unpainted brushed metal for aluminum or stainless steel cylinders), shall be free of grease and oil and shall bear a current hydrostatic test date. Unit shall be equipped with an appropriate thread or pin indexed yoke, a reducing valve limiting line pressure to 50 PSI, and a cylinder pressure gauge to indicate the amount of oxygen remaining. Additionally, a variable flow valve (not gravity dependent) and a flow meter capable of delivering at least 15 LPM shall be attached.

2) One (1) each on board installed piped oxygen resuscitator of at least 3,000 L capacity shall be available. Cylinder shall be properly color coded for medical oxygen, shall be free of grease and oil, shall be accessible for replacement, preferably from outside the patient compartment, and shall have a hydrostatic test date of less than five (5) years old. Unit shall be equipped with an appropriate thread or pin indexed yoke, a reducing valve limiting line pressure to 50 PSI, and a cylinder pressure gauge to indicate the amount of oxygen remaining. Additionally, at least one (1) oxygen wall outlet with plug-in variable flow valve, and a flow meter capable of delivering at least 15 LPM shall be installed.

3) Two (2) each Adult oxygen masks and cannulas, transparent, single use: Non-rebreather and Nasal Cannula.

4) Two (2) each Pediatric oxygen masks and cannulas, transparent, single use: Partial rebreather (Simple Face Mask) and Nasal Cannula.

5) Two (2) each Oxygen connecting tubing.

6) One (1) each Hand operated adult bag resuscitation unit with oxygen inlet, reservoir tube, clean adult and pediatric masks, without pop-off valve or with selective pop-off valve (clear recommended).

7) One (1) Hand operated infant bag resuscitation unit with oxygen inlet, reservoir tube, clean infant mask, and pop-off valve (clear recommended).

8) One (1) set Nasopharyngeal Airways (assorted French sizes).

9) One (1) set Oropharyngeal Airways (assorted sizes, 0 to 5).

10) One (1) Portable suction unit, battery powered with a minimum twenty (20) minute continuous operation. Assorted catheters and rigid suction tips. Must be able to develop 11.81 inches of water vacuum (300 mmhg) within four (4) seconds of clamping.

11) One (1) On-board, piped suction unit capable of providing a free air flow of at least twenty (20) LPM at the end of the delivery tube and a vacuum of 11.81 inches of water (300 mmhg) within four (4) seconds of clamping. The suction force shall be adjusted for use in children and intubated patients. The suction force must be reliable, such as from engine manifold and/or a permanent election suction pump powered by the vehicles’ alternator/batteries.
LINEN SUPPLIES
1) One (1) each Pillow (Non-absorbent or disposable).
2) One (1) each Pillowcase.
3) Two (2) each Sheets.
4) Two (2) each Towels.
5) Two (2) each Blankets (cotton or other non-conductive material).

CARRYING DEVICES
1) One (1) each Cot with mattress, four (4) wheels and adjustable head position.
2) Two (2) safety straps, minimum. (OSHA standards should be followed).
3) One (1) each Auxiliary Litter.
4) One (1) each Stair Chair (Items 3 and 4 may be combined.)

IMMOBILIZATION EQUIPMENT
1) Two (2) full spinal immobilization devices that meet OSHA standards.
2) One (1) half spinal immobilization device that meets OSHA standards.
3) One (1) orthopedic stretcher.
4) Six (6) 9 inch straps (speed clips, etc. or an equivalent for immobilizing two (2) patients on two (2) long boards).
5) One (1) adult leg traction splint with ankle hitch.
6) One (1) pediatric leg traction splint with ankle hitch.
7) Two (2) padded board splints (54”X3”).
8) Two (2) padded board splints (36”X3”).
9) Two (2) padded board splints (15”X3”).
10) Two (2) sets of head immobilization devices (head blocks, blanket roll).
11) Two (2) sets extrication collars (Five (5) sizes per set. Note: Soft cervical collars do not provide adequate immobilization for undiagnosed potential injuries).
12) One (1) Child safety seat that meets federal specification FMVSS-213.

SAFETY ITEMS
1) One (1) fire extinguisher (5 lb. multipurpose dry chemical).
2) Two (2) hand lights.
3) One (1) each NO SMOKING sign in the patient compartment.
4) Three (3) each Reflective triangles that meet D.O.T. standards.
5) One (1) each per crewmember Public Safety Traffic Vest.

PERSONAL PROTECTIVE EQUIPMENT
It is recommended that each riding member have their own protective gear (meeting NFPA standards). Should this not be available, the company will supply gear for members responding on that call.
1) One (1) each per crewmember present Protective coats.
2) One (1) each per crewmember present Helmet.
3) One (1) each per crewmember present Turnout pants and boots.
4) One (1) pair per crewmember present Safety Goggles.
5) One (1) pair per crewmember present Firefighter gloves.
6) One (1) each per crewmember Nomex hood.

**EXTRICATION EQUIPMENT**

Unless an emergency vehicle capable of providing extrication support is within a ten (10) minute response and is routinely dispatched with the ambulance from its or another station on every call that would reasonably require such support, then certain access and extrication equipment should be carried on the ambulance. The following is the minimum extrication equipment that should be available at all times:

1) One (1) each Wrench, 12” open ended.
2) One (1) each Screwdriver 12” standard slot blade.
3) One (1) each Screwdriver 12” Phillips type.
4) One (1) each Hacksaw.
5) Six (6) each Hacksaw blades (Carbide type).
6) One (1) each Pliers, Channel-lock, adjustable.
7) One (1) each Pliers, 10” Vise grip.
8) One (1) each Hammer, 2-5lb., 15” handle.
9) One (1) each Fire axe, butt, 24” handle.
10) One (1) each 24” Wrecking bar.
11) One (1) each Spring-loaded punch.

The following equipment is recommended but not required:

12) One (1) each Crowbar 51” with pinch point.
13) One (1) each Bolt Cutter with 1 ¼” jaw opening.
14) One (1) each Portable power jack and spreader tool.
15) One (1) each Shovel 49” with pointed blade.
16) Two (2) each Rescue rope, each 50 feet long, ½” diameter.

**AMBULANCE VEHICLE**

Refer to COMAR Section 11.14.02- Department of Transportation Standards

1) Functional climate control system (heating and cooling).
2) Functional emergency warning lights.
3) Functional emergency audible warning devices (horn excluded).
4) Functional head, tail, and signal lights.

**SANITATION STANDARDS**

1) Freshly laundered linen or disposable sheets and pillowcases or their equivalent will be used in transporting patients and changed after each use. At least one (1) complete change will be carried in the ambulance at all times. Moisture-proof protective covers shall be provided for the mattress and for any reusable pillows.
2) First aid supplies shall be stored in a clean container, free from dust, moisture, insects, and rodents.
3) The ambulance interior shall be cleaned after use. When patients with known infectious diseases have been transported, the patient compartment should be disinfected in compliance with organizations Infection Control Plan that meets OSHA bloodborne pathogen standards (CFR29.1910.30).
4) Suitable containers shall be provided for trash and soiled supplies.
5) An approved container to safely dispose of sharps (glass, needles, etc.) shall be provided on the ambulance.

6) Implements intended for use in a patient’s nose or mouth shall be separately wrapped and properly stored and handled. Should such implements be contaminated through use, it should be disposed of, if disposable, and disinfected, if reusable. Of particular concern are suction tubing and catheters, diaphragms, oxygen delivery devices, resuscitator bags and face masks. These items should be checked after each use and on a regular basis for debris and contamination.

OPTIONAL EQUIPMENT (RECOMMENDED BUT NOT REQUIRED)
1) One (1) each respirator for each crewmember as recommended by the Center for Disease Control and Prevention.
2) One (1) each Body Substance Isolation Kit. A second kit consisting of four (4) surgical masks, four (4) eye protection devices, and four (4) protective gowns for each crewmember.
3) One (1) each AED.
4) One (1) each Pulse Oximeter.

4.0 Forms
4.1 Maintenance and Operation records

5.0 Revisions

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