

EFFECTIVE JULY 1, 2018
Changes Highlighted in Yellow



THE TENNESSEE DEPARTMENT OF HEALTH
DIVISION OF HEALTH LICENSURE AND REGULATION
OFFICE OF EMERGENCY MEDICAL SERVICES

RULE 1200-12-01-.03 EMERGENCY MEDICAL SERVICES EQUIPMENT AND SUPPLIES
SPECIFICATIONS

The equipment, supplies and medications specified below have been approved by the Board of Emergency Medical Services and are required on all permitted ambulances operating in Tennessee in accordance with Rule 1200-12-01-.03 Emergency Medical Services Equipment and Supplies.

It is anticipated that this document will need to be updated from time to time. Any proposed updates will be discussed by the Clinical Issues Committee and presented to the Board for its approval at one of its regularly scheduled public meetings, the date and time of which can be found on the department's website at <http://health.state.tn.us/EMS/board.htm>.

KEY:
C = Critical Violation
N = Non-Critical Violation

SAFETY DEVICES			
Ambulance Lacks Item	Ambulance Lacks Item in Quantity Required		
	N (2)	FIRE EXTINGUISHERS	Two (2) ABC dry chemical, multipurpose 5 lb. unit fire extinguishers, in restraint brackets. One mounted in the driver/cab compartment or in a body compartment reachable from outside the vehicle. On ambulances, a fire extinguisher shall be located in the patient compartment or in a cabinet within the patient compartment. If enclosed in a compartment, outside of compartment must be labeled to indicate presence of fire extinguisher within.
	N (3)	REFLECTIVE TRIANGLES	Three (3) bi-directional reflective triangles, approved per FMVSS 125, for any transport vehicle.
	N (2)	FLASHLIGHTS	Two, three cell, lantern type flashlights of 4.5 volt or greater, or equivalent, for on-scene use. One must be accessible to the driver and one must be accessible to technician.
	N (2)	REFLECTIVE SAFETY WEAR	Reflective safety wear for each crewmember (must meet or exceed ANSI/ISEA Performance Class I, II or III).
	N	DOT EMERGENCY RESPONSE GUIDE	Current Paper or electronic version (TEMA gives them out Free)

OXYGEN INHALATION, VENTILATION AND AIRWAY MANAGEMENT DEVICES; RESUSCITATION AND AIRWAY DEVICES; ADJUNCTS FOR VENTILATION			
Ambulance Lacks Item	Ambulance Lacks Item in Quantity Required		
C	N (2)	BAG VALVE DEVICE	With a bag volume of at least 1000 milliliters and oxygen reservoir for adult use with adult mask.
C	N (2)	BAG VALVE DEVICE	With a bag volume of 450-750 milliliters and oxygen reservoir for pediatric use with child mask and infant mask.
C	N (2)	BAG VALVE DEVICE	Neonatal size with a bag volume of 200 - 250 milliliters and oxygen reservoir with neonatal mask.
C	N (1 ea)	OROPHARYNGEAL AIRWAY DEVICES	One (1) in each size of 0,1,2,3,4 and 5
C	N (1 ea)	NASOPHARYNGEAL AIRWAY DEVICES	One (1) in size 16 or 18; one (1) in size 20 or 22; one (1) in size 24 or 26; one (1) in size 28 or 30; and one (1) in size 32 or 34
C		BLIND INSERTION AIRWAY DEVICES	Device not intended for the trachea. (double lumen airways)
C		END TIDAL CARBON DIOXIDE DETECTION/MONITORING	For adult and pediatrics.
	N	NEBULIZERS	For adult and pediatrics
	N	CPAP	One device
OXYGEN			
C		INSTALLED OXYGEN SUPPLY	<ul style="list-style-type: none"> • An installed oxygen supply with a capacity of at least 2,000 liters of oxygen. • Cylinder shall be restrained with a device manufactured to not allow movement of the cylinder • Pressure regulator and flow meters shall comply with federal specifications and automatically supply a line of pressure of 50 psi. • At least two distribution outlets and flow meters shall be operable in the compartment.
C	N (2)	PORTABLE OXYGEN	<ul style="list-style-type: none"> • Two cylinders with at least 300 liters, or "D" size cylinders. • A full spare cylinder shall be provided. • Pressure regulator and flow meter shall comply with federal specifications. • Oxygen unit and spare cylinders shall be restrained as not to allow movement in storage area
OXYGEN DELIVERY DEVICES			
C	N (2 ea)	TRANSPARENT NON-REBREATHING MASK	<ul style="list-style-type: none"> • Two in adult and child sizes with tubing at least 6 foot in length.
C	N (2 ea)	NASAL CANNULA	<ul style="list-style-type: none"> • Two each adult and pediatric
		HUMIDIFIERS	<ul style="list-style-type: none"> • Optional, but when supplied shall be for single patient use.

SUCTION DEVICES AND SUPPLIES			
C		INSTALLED SUCTION DEVICE	<ul style="list-style-type: none"> With vacuum gauge, a control and collection container, and a minimum capacity of 1,000 milliliters. Must pull at least 300 milliliters in 4 seconds.
C	N (2)	SUCTION TUBING	<ul style="list-style-type: none"> Two (2), six (6)feet in length.
C		PORTABLE SUCTION DEVICE	<ul style="list-style-type: none"> A collection bottle (disposable preferred) of at least 250 milliliters shall be provided with (1) spare of the same size. Must pull at least 300 milliliters in 4 seconds. At least two (2) sets of suction tubing, two feet or more in length. <p>Note: A manually operated portable suction aspirator will not qualify as a portable suction device.</p>
C	N (2ea)	RIGID SUCTION TIPS	<ul style="list-style-type: none"> Two (2), Yankauer style. <ol style="list-style-type: none"> One may be stored with portable suction device.
C	N (2ea)	FRENCH SUCTION CATHETERS	<ul style="list-style-type: none"> Two sets. <ol style="list-style-type: none"> Each set consists of 6,8,10,14 and 16, French.catheters one each <ul style="list-style-type: none"> One set may be stored with the portable suction aspirator.
DIAGNOSTIC AND ASSESSMENT DEVICES			
C		SPHYGMOMANOMETER	<p>With inflation bulb and gauge or automatic device.</p> <ul style="list-style-type: none"> With adult and pediatric blood pressure cuffs and Adult large or thigh blood pressure cuff
C		STETHOSCOPE	<ul style="list-style-type: none"> May be carried as personally assigned equipment, provided the service has a posted policy regarding supply of this device.
	N	BANDAGE SHEARS	<ul style="list-style-type: none"> May be carried as personally assigned equipment, provided the service has a posted policy regarding supply of this device.
C		PULSE OXIMETER	<ul style="list-style-type: none"> With sensors for use with adult and pediatric patients.
	N	PATIENT THERMOMETER	<ul style="list-style-type: none"> One non mercury
BANDAGES AND DRESSING MATERIALS			
C	N (2)	RIGID EYE SHIELD	<ul style="list-style-type: none"> Two rigid eye shields
	N (2)	ADHESIVE TAPE	<ul style="list-style-type: none"> Two hypoallergenic (2) rolls:one inch wide (1) and 2 inch wide (1)
	N (6)	GAUZE ROLLER BANDAGE	<ul style="list-style-type: none"> Six (6), each at least three (3) inches wide.
	N (6)	TRIANGULAR BANDAGES	<ul style="list-style-type: none"> Six (6), with base at least forty-two (42) inches long.
	N (25)	4"X4" DRESSING	<ul style="list-style-type: none"> Twenty-five (25)
	N (8)	ABDOMINAL /COMBINE	<ul style="list-style-type: none"> Eight (8) composite pad sterile

		DRESSINGS	compresses.
C	N (2)	OCCLUSIVE DRESSING	<ul style="list-style-type: none"> Two (2) sterile occlusive dressings of white petrolatum-coated gauze or plastic membrane film at least 3"x3".
	N(2)	BURN SHEETS	<ul style="list-style-type: none"> Two (2) separate hospital or commercially packaged sheets, at least 60"x60".
C	N(2)	TOURNIQUET	<ul style="list-style-type: none"> Two (2) commercially available arterial tourniquet.
C	N	IRRIGATION SOLUTION	<ul style="list-style-type: none"> Saline or sterile water in plastic containers sufficient to supply 2000 milliliters. Bagged IV solutions may be substituted, but if substituted will not fulfill IV solution requirements elsewhere in these specifications.
IMMOBILIZATION DEVICES			
C	N (2)	SPINAL IMMOBILIZATION DEVICE	<ul style="list-style-type: none"> Two (2) spinal immobilization devices, backboards, whole body splints or other approved devices capable of immobilizing a patient with suspected spinal injuries which is translucent for xray. Straps or restraints that immobilize the patient at or about the chest, pelvis, and knees shall be provided for each device. Wooden devices must be sealed with finishes to prevent splintering and aid in decontamination. Note: Wooden devices will no longer be acceptable after July 1st 2018.
C	N	SHORT SPINAL IMMOBILIZATION DEVICE	<ul style="list-style-type: none"> One (1) short spinal immobilization device consisting of a clamshell wraparound type vest. Device must: <ol style="list-style-type: none"> include affixed restraint straps, head straps and integral padding. be maintained in dust resistant container
C	N (2)	CERVICAL SPINAL IMMOBILIZATION OR HEAD IMMOBILIZERS	<ul style="list-style-type: none"> Two (2) designed to prevent lateral head movement of the restrained patient. <ol style="list-style-type: none"> Four (4) disposable or plastic covered foam blocks with tape or restraint straps may be provided to fulfill this requirement. Commercial devices must include accompanying straps or restraint materials. Note: Sand bags will not fulfill this requirement.

IMMOBILIZATION DEVICES			
C	N (2 sets)	CERVICAL COLLARS	<ul style="list-style-type: none"> Two (2) sets shall be available. Each set must contain the following sizes: <ol style="list-style-type: none"> Pediatric Small Adult Medium Adult Large Adult (Adjustable collars may be combined to make at least two adult collars and at least two pediatric collars).
	N	UPPER AND LOWER EXTREMITY IMMOBILIZATION DEVICES	<ul style="list-style-type: none"> Must be made of a rigid support material capable of immobilizing all four extremities, as well as the joint above and the joint below the fracture, in sizes appropriate for adults and pediatrics. Must be placed in a dust-resistant containers. <p>Note Inflatable splints will not meet this requirement.</p>
C	N	LOWER EXTREMITY TRACTION SPLINTS	<ul style="list-style-type: none"> Adult and Pediatric provided with attachments sufficient to immobilize femoral fractures involving both lower extremities. (If one traction splint can splint both legs and the device be adjusted to pediatric size one splint will sufficient) Must be placed in a dust-resistant containers.
C	N	PELVIC IMMOBILIZATION DEVICE	<ul style="list-style-type: none"> Commercial or medically-recognized, improvised device (<i>i.e.</i> sheet and clips)
PATIENT CARE SUPPLIES			
	N	CONTAINERS FOR HUMAN WASTE AND EMESIS	<ul style="list-style-type: none"> One (1) bedpan; One (1) urinal; and Two (2) emesis basins or suitable substitutes. Tissues shall be provided for secretions and toilet use.
	N	BLANKETS OR PROTECTIVE PATIENT COVERS WITH THERMAL INSULATING CAPABILITIES	<ul style="list-style-type: none"> Two (2) for adults. One (1) for infant, including head cover. Must be stored in dust-resistant cover
C	N (4)	SHEETS	<ul style="list-style-type: none"> Four (4) linen or disposable material for cot and patient covers.
	N	PILLOW	<ul style="list-style-type: none"> 1 time use or with fluid proof covering.
	N	COLD PACKS	<ul style="list-style-type: none"> 2 cold packs
OBSTETRICAL EMERGENCY EQUIPMENT			
C		OBSTETRICAL EMERGENCY PACK	<ul style="list-style-type: none"> Obstetrical Emergencies Packs or OB Kits shall contain the following: <ol style="list-style-type: none"> Drape towel or underpad. Gauze dressings. Sterile gloves. Sterile cutting instrument Bulb syringe or aspirator

			<ul style="list-style-type: none"> 6. Cord clamps and /or umbilical ties 7. Plastic bags and ties for placental tissue. 8. Infant receiving blanket or swaddling materials and head covering (if not included in OB kit may use infant blanket and head cover from patient care supplies).
INFECTION CONTROL SUPPLIES			
C	N	PERSONAL PROTECTIVE EQUIPMENT	<ul style="list-style-type: none"> • Must conform to current CDC guidelines for infectious disease , including but not limited to the following: <ul style="list-style-type: none"> 1. Disposable gloves sized for the crew. 2. Protection of Mucus membranes. (i.e. goggles/ faceshields below chin and to hairline) 3. Full body protection with (i.e. Fluid-proof/ impermeable covers or gowns, and leggings 4. Protective footwear 5. Two (2) face mask (NIOSH, compliant with at least N-95 specifications). Compliance with Occupational Safety and Health Administration rules for annual fit testing. 6. Roll of impermeable tape..
C	N	DECONTAMINATION AND DISPOSAL OF INFECTED WASTE	<p>According to CDC</p> <ul style="list-style-type: none"> • Materials for decontamination and disposal of potentially infected waste to include: <ul style="list-style-type: none"> 1. Red plastic bags or trash bags labeled for biohazard with at least two (2) bags 24"x30". 2. Puncture resistant container shall be supplied for sharps disposal in a locking –style bracket or in a locked compartment within the ambulance. Sheath style or single use containers shall be disposed of in a larger approved container. 3. Antiseptic hand cleaners 4. Environmental Protection Agency approved hospital grade disinfectant for equipment application.
INTRAVENOUS THERAPY SUPPLIES			
	N (3 ea)	FLUID ADMINISTRATION SETS	<ul style="list-style-type: none"> 1. Three (3) each <ul style="list-style-type: none"> • Macro drip: ten (10) to twenty (20) drops per milliliter. • Micro drip: sixty (60) drops per milliliter.
C	N	VENOUS TOURNIQUETS	<ul style="list-style-type: none"> • Non-latex disposable, sufficient for

			adult and pediatric use.
	N (12)	ANTISEPTIC WIPES	• Twelve (12).
	N (4)	CATHETERS OVER NEEDLE	• Four (4) in each gauge size 14,16,18, 20, 22, and 24.
C	N (3)	INTRAVENOUS FLUIDS	• Three (3) liters, two (2) of which must be crystalloid fluids.
C	N (3)	INTRAOSSEOUS INFUSION DEVICES OR NEEDLES	• Two between 14-18 gauge for the adult and /or pediatric and • 18 gauge for patients weighing less than three (3) kilograms.
C		PRESSURE INFUSION DEVICE	• Pressure infusion device
CARDIAC DEFIBRILLATORS AND MONITORS			
C		SEMI-AUTOMATED EXTERNAL DEFIBRILLATOR	• Shall be provided on each staffed BLS unit. Note: Semi-automated external defibrillators replaced after July 1, 2015 shall have pediatric capability.
MEDICATIONS REQUIRED			
Medications must be packaged and stored in accordance with pharmacologic guidelines for sterility, cleanliness, temperature control, dosage and expiration.			
C		ANAPHYLAXIS KIT	• Epinephrine 1:1,000 in a preloaded syringe of 0.3 ml per dose or a 1 cc syringe with a needle capable of intra muscular injection. Also sufficient quantity of Epinephrine 1:1000 to administer four (4) doses.
C		ASPIRIN OR THERAPEUTIC EQUIVALENT	• For Suspected cardiac patients
C		BETA –ADRENERGIC AGONIST OR THERAPEUTIC EQUIVALENT	• With appropriate administration devices for acute pulmonary distress.
C		NITROGLYCERINE	• 1/150 grain (0.4mg) tablets, intranasal or sublingual spray or therapeutic equivalent
C		NARCAN (NALOXONE)	• Minimum of 4 mg. , or therapeutic equivalent
HYPOGLYCEMIC COUNTERMEASURES			
C		GLUCOSE CLIA APPROVED FOR WAVIED TESTING DEVICES	• For semi-quantitative blood glucose determinations, with,testing and calibration capabilities.
C		DEXTROSE	• At least two doses of 25 grams for parenteral administration.
MEDICATION ADMINISTRATION SUPPLIES			
C	N	SYRINGES	• For drug administration shall have at least 1cc, 3cc, and 10cc sizes with needles to include sizes for intra muscular injections. • 2 – 60cc luer lock syringes • 2- three way stop cocks.

C		LENGTH BASED PEDIATRIC DOSING TAPE	<ul style="list-style-type: none"> Or appropriate reference material that converts length to estimated ideal body weight in kilograms for pediatric drug dosing and equipment sizing based on the most current guidelines. <p>Note: Length-based dosage tapes shall be ordered within ninety (90) days and replaced within one (1) year of the successor version becoming commercially available.</p>
	N	MUCOSAL ATOMIZER DEVICE	<ul style="list-style-type: none"> One

MASS CASUALTY SITUATIONS/INCIDENTS

	N	TRIAGE TAGGING SYSTEM	<ul style="list-style-type: none"> Scanable system required. Should organize the injured into four (4) groups by color. <ol style="list-style-type: none"> The expectant or dead/dying that are beyond help. The injured who can be helped by immediate transportation. The injured whose transport can be delayed. Those with minor injuries, which need help less urgently.
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ADDITIONAL EQUIPMENT SPECIFICATIONS FOR ADVANCE LIFE SUPPORT AMBULANCES

Ambulance Lacks Item	Ambulance Lacks Item in Quantity Required		
ENDOTRACHEAL INTUBATION DEVICES			
C	N (1 ea)	LARYNGOSCOPE	<ul style="list-style-type: none"> Shall have operable handles, in adult and pediatric sizes appropriate for use with laryngoscope blades with extra batteries.
C	N (1 ea)	LARYNGOSCOPE BLADES	<ul style="list-style-type: none"> In sizes 0 through 4, straight, and 2 through 4 curved with extra bulbs.
C	N (2 ea)	ENDOTRACHEAL TUBES	<ul style="list-style-type: none"> Individually packaged in a sanitary, sealed envelope or plastic package, Cuffed sizes two (2) of each size 2.5 millimeter through 8.5 millimeter
C	N (6)	STERILE SURGICAL LUBRICANT OR EQUIVALENT	<ul style="list-style-type: none"> Six packets or equivalent
C	N (1 ea)	STYLETS	<ul style="list-style-type: none"> One each Adult and pediatric
C	N (2)	SYRINGE	<ul style="list-style-type: none"> Two 10cc with plain luer tip for cuff inflation
C	N (1 ea)	MAGILL FORCEPS	<ul style="list-style-type: none"> One each Adult and pediatric sizes
C	N	BOUGIE DEVICE	<ul style="list-style-type: none"> With coude tip
C		END TIDAL CARBON DIOXIDE MONITORING	<ul style="list-style-type: none"> For adult and pediatrics. <p>Note: Addition of Waveform capnography technology will be required after July 1st, 2018</p>
C		MECONIUM ASPIRATOR ADAPTERS	<ul style="list-style-type: none"> Shall provide for endotracheal aspiration of meconium, allowing direct connection of suction to the

			endotracheal tube.
C	N(2)	CHEST DECOMPRESSION NEEDLE	<ul style="list-style-type: none"> Minimum length 3.25 inches large bore
CARDIAC DEFIBRILLATORS AND MONITORS			
C		CARDIAC MONITOR	<ul style="list-style-type: none"> ALS units shall be equipped with cardiac monitor with electrocardiographic recorder and defibrillator. Shall have same number of electrodes to match number of monitoring leads, plus an equal number of spares for adults and pediatrics. Defibrillators shall have a minimum setting of ten (10) joules Defibrillator shall be equipped with the appropriate paddles or pads to treat adult and pediatric patients. <p>Note: Biphasic waveform technology will be required on any cardiac monitor/defibrillator acquired after July 1st, 2015.</p>
C		TRANSCUTANEOUS CARDIAC PACEMAKER	<ul style="list-style-type: none"> A transcutaneous cardiac pacemaker, with adult and pediatric capabilities and adult and pediatric pads. <p>Note: This requirement will go into effect after July 1st 2018</p>
C		TWELVE (12) LEAD MONITOR	<ul style="list-style-type: none"> Twelve (12) lead monitor shall be required on any cardiac monitor/defibrillator after July 1st, 2018.
	N		<ul style="list-style-type: none"> Capable of twelve (12) lead transmission. <p>Note: Required after July 1st, 2018.</p>
MEDICATIONS REQUIRED FOR DEFINITIVE AND CARDIAC CARE			
Medications must be packaged and stored in accordance with pharmacologic guidelines for sterility, cleanliness, temperature control, dosage and expiration. Medications must be compatible with current specifications as approved by the ambulance service's medical director.			
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C	N	ADENOSINE	<ul style="list-style-type: none"> Minimum 24 milligrams, or therapeutic equivalent.
C	N	ATROPINE SULFATE	<ul style="list-style-type: none"> Minimum four (4) milligrams, or therapeutic equivalent.
C	N	ANTIARRHYTHMIC AGENTS	<ul style="list-style-type: none"> Lidocaine for cardiac arrhythmia at minimum of 400 milligrams or Amiodarone minimum of 450 milligrams, or therapeutic equivalent.
C	N	MAGNESIUM SULFATE	<ul style="list-style-type: none"> Minimum 2 grams in successive doses with dilution, or therapeutic equivalent.
C		SODIUM CHLORIDE	<ul style="list-style-type: none"> For injection and dilution of medications.
C	N	BENZODIAZEPINE	<ul style="list-style-type: none"> In amounts sufficient to administer two successive maximum doses, or

			therapeutic equivalent.
C	N	VASOPRESSOR AGENTS	<ul style="list-style-type: none"> Sufficient to administer four maximum doses, or therapeutic equivalent.
NARCOTIC AGENTS AND ANTAGONISTS			
C	N	NARCOTIC ANALGESICS	<ul style="list-style-type: none"> In an amount to sufficient to administer two maximum adult doses.
ALKALINIZING AGENTS			
C	N	SODIUM BICARBONATE	<ul style="list-style-type: none"> Minimum of 100 milliequivalents or therapeutic equivalent.
ANTIEMETICS			
C		ANTIEMETIC	<ul style="list-style-type: none"> Ondansetron, or therapeutic equivalent.
ANTIHISTAMINE			
C	N	DIPHENHYDRAMINE	<ul style="list-style-type: none"> Minimum 50 milligrams or therapeutic equivalent.