

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

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OFFICE OF EMERGENCY MEDICAL SERVICES
OEMS COMMUNICATIONS STATEMENT 22-05

Date: May 16, 2022

To: EMS Organizations

From: Raffaella Coler, RN, MEd, Paramedic ^R
Director, Office of Emergency Medical Services

Richard Kamin, MD, FACEP ^{RK}
Medical Director, Office of Emergency Medical Services

Re: 2022 Connecticut EMS Minimum Equipment List

The purpose of this Communications Statement is to publish the 2022 Connecticut EMS Minimum Equipment List for EMS vehicles, which is attached. Consistent with past practice, 2022 changes are noted in bold. Review was completed by the Connecticut EMS Medical Advisory Committee (CEMSMAC), and the Connecticut EMS Advisory Board (CEMSAB).

The 2022 Connecticut EMS Minimum Equipment List details the required minimum equipment to be provided at the scene of each EMS call to which it responds, by the specified level of EMS provider (in accordance with Regulations of [Connecticut State Agencies 19a-179-10](#) Categorization of and staffing requirement for services). All required equipment shall be present, appropriately clean and in working order. Substitutions for equipment may be made only with the prior written approval of OEMS.

If you have any questions, please contact your [Regional EMS coordinator](#).

**MINIMUM LEVEL FIRST RESPONDER
VEHICLE EQUIPMENT LIST**

CATEGORY	QTY	EQUIPMENT DESCRIPTION
Ventilation & Airway Equipment	1	Portable oxygen administration apparatus with 30 minutes supply at 7 lpm flow rate, which is operable totally detached from parent vehicle. Such unit shall be capable of accepting attachment to a nasal cannula, mouth/nose mask or as enrichment feed to a forced ventilation unit.
	1	Adequate length oxygen tubing. May be separate or incorporated into each of the delivery devices listed below.
	2	Adult Nasal Cannulas
	1	Child Nasal Cannula
	2	Adult non-rebreathing transparent masks
	1	Child non-rebreathing transparent mask
	1	Adult BVM (Hand-operated, self-re-expanding bag [>1000 ml] with oxygen reservoir/accumulator and tubing, valve (clear, disposable, operable in cold weather) and transparent adult mask
	1	Child BVM (Hand-operated, self-re-expanding bag [450-750 ml] with oxygen reservoir/accumulator, valve (clear, disposable, operable in cold weather) and transparent child mask. Suitable substitute for BLS units only: mouth-barrier ventilation devices that allow for ventilation of both infants and children.
	1	Infant mask for BVM. Labeling may vary but should be sized to accommodate appropriate seal on full-term infants (<5 kg or 11 lb). Suitable substitute for BLS units only: mouth-barrier ventilation devices that allow for ventilation of both infants and children.
	1	Neonatal mask for BVM. Labeling may vary but should be sized to accommodate appropriate seal on low birth weight infants (<2.5 kg or 5.5 lb). Suitable substitute for BLS units only: mouth-barrier ventilation devices that allow for ventilation of both infants and children.
Bandages	1	Complete set infant to adult sized oropharyngeal airways
	2	Sterile multi-trauma dressing 10x30" or larger
	5	Abdominal dressing, 5"x9" or larger
	1	Roll of self-adhering elastic bandage suitable for applying a pressure dressing
	10	4" x 4" gauze sponges or suitable size
	4	Gauze rolls
	2	Sterile 3" x 8" or larger occlusive dressings, or equivalent sufficient to permit an air-tight seal of wounds to the chest cavity
	2	Triangular bandages
	1	Hypoallergenic roll of adhesive tape
	1	Roll athletic-type adhesive tape
	2	Arterial tourniquets (commercially manufactured)
1	Sterile burn sheet	

All quantities represent minimums believed to be adequate for a provider to render care on a single medical/trauma response. MCI's, prolonged transports, or multiple consecutive responses may require additional supplies. Services may need to carry additional supplies and/or establish restocking procedures to assure adequate supplies are available for all responses.

MINIMUM LEVEL FIRST RESPONDER VEHICLE EQUIPMENT LIST

CATEGORY	QTY	EQUIPMENT DESCRIPTION
Misc.	500 mL	Sterile saline solution for irrigation (plastic bottle or bag)
	1	Adult Sphygmomanometer (with standard adult and large adult cuffs)
	1	Adult stethoscope
	1	Heavy scissors or shears for cutting clothing, belts, boots, etc.
	1	Battery operated; hand-carried flashlight suitable for illuminating both a localized work area or walkway. Rechargeable or has extra set of batteries. Penlights do not meet this requirement.
	1	Thermal blanket. "Bath blanket" does not meet this requirement.
	1	Complete SMART triage pack
	1	A bag intended to bring all necessary equipment to the patient in order to function at the level of service to be provided.
Infection Control <i>Latex free equipment should be available</i>	1	Single-use examination gloves, non-sterile, 4 pairs of appropriately sized gloves per crewmember (must meet NFPA 1999 requirements found at www.nfpa.org)
	1	Disposable isolation gown
	1	Disposable isolation coverall. Must be fluid resistant or impermeable with sealed seams.
	1	Face protection (for example, surgical mask)
	1	Single-use (disposable) transparent full face shield
	1	Eye protection (full peripheral glasses or goggles)
	1	Pairs of single-use (disposable), fluid-resistant or impermeable boot covers that extend to at least mid-calf. Suitable substitute: Single-use (disposable) fluid-resistant or impermeable shoe covers if they will be used in combination with a coverall with integrated socks. Boot and shoe covers should allow for ease of movement and not present a slip hazard.
	1	Waterless hand cleanser, commercial antimicrobial (towelette, spray, liquid)
	1	Disposable biohazard bag
	1 per crew member	Disposable respiratory protection - appropriately sized to crew member based on fit-testing - filtration standard N95 or better.
Injury Prevention	1	At least 5 lb. or larger ABC UL fire extinguisher, which must be certified in the last 12 months by appropriate certifying agency.
	1	Emergency Response Guidebook (most recent edition - electronic or hardcopy)
	3	Traffic signaling devices (reflective material triangles or other reflective, non-igniting devices.) Suitable substitute: a minimum of 3 hours duration red burning flares.
	1 per crew member	Reflective safety wear for each crewmember (must meet or exceed ANSI/ISEA performance class II or III if working within the right of way of any federal-aid highway (visit www.reflectivevest.com/federalhighwayruling.html for more information)
Reminder: Services must review applicable OSHA standards and carry all required personal protective equipment.		

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MINIMUM BASIC VEHICLE EQUIPMENT LIST

CATEGORY	QTY	EQUIPMENT DESCRIPTION
Ventilation & Airway Equipment	1	Fixed oxygen administration apparatus with 2 hours supply at 7 lpm flow rate.
	1	Variable controlled flow oxygen regulator permitting adjustment from a minimum of 2 lpm - 25 lpm with visual indication of flow rate.
	1	Variable controlled flow oxygen regulator permitting adjustment from a minimum of 2 lpm - 15 lpm with visual indication of flow rate.
	2	Adequate lengths oxygen tubing. May be separate or incorporated into each of the delivery devices listed below.
	2	Adult Nasal Cannulas
	2	Child Nasal Cannulas
	2	Adult non-rebreathing transparent masks
	2	Child non-rebreathing transparent masks
	1	Portable oxygen administration apparatus with 30 minutes supply at 7 lpm flow rate, which is operable totally detached from parent vehicle. Such unit shall be capable of accepting attachment to a nasal cannula, mouth/nose mask or as enrichment feed to a forced ventilation unit
	1	Fixed Suction apparatus with a regulator capable of drawing a vacuum of 300mm of mercury. Must be adjustable for use with pediatrics.
	1	Battery operated portable suction apparatus. Such unit shall be operable completely independent of parent vehicle for a minimum period of 15 minutes.
	1	Wide-bore suction tubing
	1	Rigid pharyngeal curved suction tip (e.g. yankauer)
	1	Flexible suction catheter between 6F-10F
	1	Flexible suction catheter between 12F-16F
	2	Adult BVMs (Hand-operated, self-re-expanding bag [>1000 ml] with oxygen reservoir/accumulator and tubing, valve (clear, disposable, operable in cold weather) and transparent adult mask
	2	Child BVMs (Hand-operated, self-re-expanding bag [450-750 ml] with oxygen reservoir/accumulator, valve (clear, disposable, operable in cold weather) and transparent child mask
	2	Infant masks for BVM. Labeling may vary but should be sized to accommodate appropriate seal on full-term infants (<5 kg or 11 lb)
	2	Neonatal masks for BVM. Labeling may vary but should be sized to accommodate appropriate seal on low-birth weight infants (<2.5 kg or 5.5 lb)
	2	Adult Nasopharyngeal Airways (at least two different sizes in the range of 26F-34F)
	2	Child Nasopharyngeal Airways (at least two different sizes in the range of 16F-24F)
	2	Complete set infant to adult sized oropharyngeal airways
	1	Pulse oximeter
	1	Adult probe. Suitable substitute: Pulse oximeter approved for use on adults.
1	Pediatric probe. Suitable substitute: Pulse oximeter approved for use on infants and small children.	
1	Bulb suction for infants	

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**MINIMUM BASIC VEHICLE
EQUIPMENT LIST**

CATEGORY	QTY	EQUIPMENT DESCRIPTION
Monitoring and Defibrillation	1	Automatic External Defibrillator. Manual monitor/defibrillator may be substituted in ambulances staffed at the paramedic level.
	2	Adult defibrillation pads
	1	Pediatric Defibrillation pads
	1	Shaving device capable of removing excessive chest hair.
Immobilization Devices	2	Adult Rigid Cervical collars: Complete set of fixed collars across adult size range (e.g. No-neck, short, medium, tall) Suitable substitute: 2 adjustable height collars (e.g. adjustable to fit full range of adult patients).
	2	Child Rigid Cervical collars for ages 2 years or older
	2	Head immobilization devices (not sandbags) with chin and forehead straps; firm padding or commercial device
	1	Adult lower extremity (femur) traction device - lower extremity, limb-support slings, padded ankle hitch, padded pelvic support, traction strap. CT-DPH approved: Hare traction, Thomas half-ring, commercial rigid traction frame with padded head, attached securing strap at head, ankle lift support and with a design to accept traction strap(s) at the foot.
	1	Child lower extremity (femur) traction device - lower extremity, limb-support slings, padded ankle hitch, padded pelvic support, traction strap. CT-DPH approved: Hare traction, Thomas half-ring, commercial rigid traction frame with padded head, attached securing strap at head, ankle lift support and with a design to accept traction strap(s) at the foot.
	2	Sets of splinting materials or immobilization devices sufficient to permit immobilization and protection to any portion of an adult or child upper or lower extremity in any position such that the joint-above and joint-below the fracture are also immobilized. Must be rigid-support constructed with appropriate material [cardboard, metal, pneumatic, vacuum, wood, or plastic]. Generally, a set will consist of small, medium and large splints.
	1	Impervious long board (transport, head-to-foot length) with handholds for moving patients. Suitable substitute: "Scoop stretcher" style lifting/moving device
	4	Restraint straps compatible with long board and appropriate for securing torso and legs (single restraint system such as "Spider Strap" may be substituted.)
Bandages	4	Sterile multi-trauma dressings 10 x 30" or larger
	10	Abdominal dressings, 5"x 9" or larger
	1	Roll of self-adhering elastic bandage suitable for applying a pressure dressing
	20	4" x 4" sterile gauze pads/sponges or suitable size
	6	Soft, self-adhering gauze rolls
	2	Sterile 3" x 8" or larger occlusive dressings, or equivalent sufficient to permit an air-tight seal of wounds to the chest cavity
	6	Triangular bandages
	2	Hypoallergenic adhesive tape, 1" or wider
	2	Adhesive tape, 1" or wider

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MINIMUM BASIC VEHICLE EQUIPMENT LIST

CATEGORY	QTY	EQUIPMENT DESCRIPTION
Bandages cont.	2	Arterial tourniquets (commercially manufactured)
	2	Sterile burn sheets
OB Kit	1	Obstetrical kit (separate, sterile kit) containing a minimum of 1 pair sterile gloves, sterile scissors or other cutting utensil, umbilical clamps or tape, sterile vaginal dressings, 2 towels, large plastic bag and swaddling material
	1	Newborn head cover
Misc.	1	Adult Sphygmomanometer (with standard adult and large adult size cuffs)
	1	Child/Pediatric Sphygmomanometer
	1	Adult stethoscope
	1	Pediatric Stethoscope. Suitable substitute: Stethoscope that integrates both pediatric and adult sized diaphragms.
	1	Penlight. Suitable substitute: small flashlight suitable for checking pupillary response and eye movement
	1	Heavy scissors or shears for cutting clothing, belts, boots, etc.
	4	Cold packs
	2000 mL	Sterile saline solution for irrigation (plastic bottles or bags)
	2	Battery operated; hand-carried flashlights suitable for illuminating both a localized work area or walkway. Rechargeable or has extra set of batteries. Penlights do not meet this requirement.
	2	Thermal blankets. "Bath blanket" does not meet this requirement.
	2	Pillows
	4	Pillow Cases. May be reusable or disposable.
	4	Sheets. May be reusable or disposable.
	4	Towels
	1	SMART Triage Pack
	2	Disposable emesis bags or basins
	1	Disposable bedpan
	1	Disposable urinal with lid or sealed bag substitute
	1	Wheeled cot (conforming to national standard at the time of manufacture) with at least three transverse strap type restraining devices (chest, hip, knee) incorporating metal quick-release buckles and upper torso (over the shoulder) restraints that mitigate cephalic motion of the patient.
	3	Extension straps compatible with cot straps' metal quick-release buckles
	1	Stair chair or carry chair
		Electronic patient care reporting system or patient care charts/forms
		Printed copy or access to electronic version of patient care guidelines
	3	Lubricating jelly (water soluble). Single use packets or tubes.
	1	Set of commercially manufactured, soft and padded wrist and ankle patient restraints labeled by vendor as appropriate for restraining violent patients.
	1	Rectal thermometer
	2	Liters of potable water in factory sealed container (may be divided into multiple smaller sealed containers.)
	1	A bag intended to bring all necessary equipment to the patient in order to function at the level of service to be provided.

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MINIMUM **BASIC VEHICLE** EQUIPMENT LIST

CATEGORY	QTY	EQUIPMENT DESCRIPTION
Medication	30 grams	Glucose in a form easily ingested orally
		Epinephrine 1:1,000; must be supplied so as to deliver at least one injection for an adult and one injection for a pediatric patient. Any combination of the following is acceptable: A. An appropriate, commercially available and FDA approved pre-filled single dose device and/or B. "Check and Inject" Supplies as listed below.
	A.	<i>Pre-filled single dose commercially prepared device</i>
	0.3 mg	Epinephrine pre-filled single dose device (Adult)
	0.15 mg	Epinephrine pre-filled single dose device (Child)
	B.	<i>"Check and Inject" Supplies</i>
	0.3 mg	Epinephrine 1:1,000 (Adult)
	1	Syringe not greater than 1 mL (Adult)
	2	Needles, 1-1.5", 22-25 gauge (Adult)
	0.15 mg	Epinephrine 1:1,000 (Child)
1	Syringe not greater than 1 mL (Child)	
2	Needles, 5/8", 22-25 gauge (Child)	
Infection Control Latex Free equipment should be available	1	Single-use examination gloves, non-sterile, 16 pairs of each size small, medium, large and extra-large (must meet NFPA 1999 requirements found at www.nfpa.org). May be in original boxes or in other storage containers or bags, separated by size.
	2	Disposable isolation gowns
	2	Disposable isolation coveralls. Must be fluid resistant or impermeable with sealed seams.
	2	Single-use (disposable) surgical hoods extending to shoulders. Suitable substitutes: Coverall with integrated hood or Powered Air Purifying Respirator (PAPR) with integrated hood.
	2	Single-use (disposable) transparent full-face shield
	2	Splash/droplet eye protection (full peripheral glasses or goggles)
	2	Pairs of single-use (disposable), fluid-resistant or impermeable boot covers that extend to at least midcalf. Suitable substitute: Single-use (disposable) fluid-resistant or impermeable shoe covers if they will be used in combination with a coverall with integrated socks. Boot and shoe covers should allow for ease of movement and not present a slip hazard.
	1	Waterless hand cleanser, commercial antimicrobial (towelette, spray, liquid)
	1	Disinfectant solution for cleaning equipment
	1	Standard sharps container, fixed
	2	Disposable biohazard bags
	1 per crew member	Disposable respiratory protection - appropriately sized to crew member based on fit-testing - filtration standard N95 or better.
	4	Loose fitting surgical masks for source patient control

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MINIMUM **BASIC VEHICLE** EQUIPMENT LIST

CATEGORY	QTY	EQUIPMENT DESCRIPTION
Injury Prevention	1	Pediatric passenger restraint system that either 1) is commercially manufactured for the specific purpose of securing a pediatric patient within the patient compartment of an ambulance during transport <u>or</u> 2) a child passenger restraint system that meets the requirements of the Code of Federal Regulations, Title 49, Part 571.213, as amended, child restraint systems, and displays a permanent label indicating all information required by such regulations, including but not limited to the following: “This child restraint system conforms to all applicable Federal Motor Vehicle Safety Standards.”
	2	At least 5 lb. or larger ABC UL fire extinguishers, one in driver compartment, one in patient compartment. Both must be certified in the last 12 months by appropriate certifying agency.
	1	Wrecking Bar minimum 24" Length
	2	Pairs leather gloves. Suitable substitute: Cut/puncture resistant extrication or structural firefighting gloves.
	1	Window glass breaking device
	2	OSHA compliant eye protection from flying particles. Same device may be used to meet both splash/droplet and flying particle eye protection requirements.
	1	Emergency Response Guidebook (most recent edition - electronic or hardcopy)
	3	Traffic signaling devices (reflective material triangles or other reflective, non-igniting devices) Suitable substitute: a minimum of 3 hours duration red burning flares.
1 per crew member	Reflective safety wear for each crewmember (must meet or exceed ANSI/ISEA performance class II or III if working within the right of way of any federal-aid highway (visit www.reflectivevest.com/federalhighwayruling.html for more information)	

Reminder: Services must review applicable OSHA standards and carry all required personal protective equipment.

Basic ambulances are strongly encouraged to carry a child passenger restraint system(s) that meets the requirements of the Code of Federal Regulations, Title 49, Part 571.213, as amended, *child restraint systems*, and is able to accommodate both infants and children up to a weight of at least 60 pounds. Ambulances may only transport children who are not patients but weigh less than 60 pounds and or are less than 6 years of age if the child is restrained in a compliant child restraint system.

Reminder: Services are required to carry any equipment or medications that they have been approved for as identified on your MIC Page. (ie. 12-lead, CPAP, Glucometer, Aspirin, and/or Narcan)

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MINIMUM **MIC-ADVANCED EMT VEHICLE** EQUIPMENT LIST

NOTE: Must comply with minimum equipment either as a basic first responder vehicle or basic ambulance in addition to this list.

CATEGORY	QTY	EQUIPMENT DESCRIPTION
ALS Vascular Access	4	Crystalloid intravenous solutions, such as Ringer's lactate or normal saline solution (1000 mL bags); fluid must be in bags or plastic containers, not glass bottles; type of fluid may vary depending on local requirements
	10	Chlorhexidine preps
	2	Sets of intravenous catheters, one each 14G through 24G
	2	Venous tourniquets
	1	Sharps container, portable
	4	Intravenous administration sets (macro drip)
	1	Intravenous arm board, pediatric

MIC-AEMT first responder vehicles must carry the following additional basic level minimum equipment:

CATEGORY	QTY	EQUIPMENT DESCRIPTION
Additional medical supplies for MIC-AEMT first responder vehicles	1	Battery operated portable suction apparatus. Such unit shall be operable completely independent of parent vehicle for a minimum period of 15 minutes.
	1	Rigid pharyngeal curved suction tip (e.g. yankauer)
	1	Flexible suction catheter between 6F-10F
	1	Flexible suction catheter between 12F-16F
	1	Penlight. Suitable substitute: small flashlight suitable for checking pupillary response and eye movement
	1	Pulse oximeter
	1	Adult probe. Suitable substitute: Pulse oximeter approved for use on adults.
	1	Pediatric probe. Suitable substitute: Pulse oximeter approved for use on infants and small children.
	1	Child/Pediatric Sphygmomanometer
	1	Pediatric Stethoscope. Suitable substitute: Stethoscope that integrates both pediatric and adult sized diaphragms.
	1	Bulb suction for infants
	1	Adult Rigid Cervical collars: Complete set of fixed collars across adult size range (e.g. No-neck, short, medium, tall) Suitable substitute: 2 adjustable height collars (e.g. adjustable to fit full range of adult patients).
	2	Child Rigid Cervical collars for ages 2 years or older
	1	Obstetrical kit (separate, sterile kit) containing a minimum of 1 pair sterile gloves, sterile scissors or other cutting utensil, umbilical clamps or tape, sterile vaginal dressings, 2 towels, large plastic bag and swaddling material
	1	Newborn head cover
		Printed copy or access to electronic version of patient care guidelines
		Electronic patient care reporting system or patient care charts/forms
	1	SMART Triage Pack (required)
15 grams	Glucose in a form easily ingested orally	

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MINIMUM **MIC-PARAMEDIC VEHICLE** EQUIPMENT LIST

NOTE: Must comply with minimum equipment either as a basic first responder vehicle or basic ambulance in addition to this list.

CATEGORY	QTY	EQUIPMENT DESCRIPTION
ALS Ventilation & Airway Equipment	2	Laryngoscope handles with one set of extra batteries (ea), must accommodate all blade sizes.
	1	Set of Laryngoscope blades, sizes 0-4, straight; Sizes 2-4, curved
	1	Extra bulb(s) for laryngoscope blades. Must have at least one spare bulb for each size/type of bulb used in required blades. Fiber optic systems in which the bulb is integrated into the handle are exempt from this requirement.
	2	Sets of endotracheal tubes, both whole and half sizes 2.5-5.5 mm (cuffed or uncuffed) and 6-8 mm cuffed. Other sizes optional. Must be sterile and individually wrapped.
	2	Sets of sterile, soft suction catheters in the following sizes: 6 F, 8 F, 10 F and either 12F, 14F or 16F . Must be sterile and in original, unbroken packaging.
	1	10- or 12-mL syringes
	1	Set of stylets suitable for neonatal, pediatric and adult endotracheal tubes (e.g., Sizes 6, 10 and 14 F). Sterile in original packaging.
	1	Supplies to secure an adult endotracheal tube
	1	Supplies to secure a pediatric endotracheal tube
	1	Adult Magill forceps
	1	Pediatric Magill forceps
	1	Set of extra-glottic airway devices (LMA, King, Combitube or similar as approved by sponsor hospital) in a range of sizes to fit adult and pediatric patients with associated supplies necessary for insertion and securing of device.
	1	End-tidal CO2 quantitative waveform capnography
	2	Endotracheal tube adapter for end-tidal CO2 capnography (pediatric and adult)
	1	Endotracheal tube introducer (Bougie) - sterile in original packaging.
	1	Cricothyrotomy supplies suitable for establishing an emergency airway on adult and pediatric patients.
	1 set	PEEP valves compatible with service's BVM exhalation port. At a minimum, must have settings or valves for both 5 and 10 cm H2O
	1	Adapter to allow for administration of nebulized medications through BVM and/or CPAP.
ALS Vascular Access	4000 mL	Crystalloid intravenous solutions, such as Ringer's lactate or normal saline solution (1000 mL bags); fluid must be in bags or plastic containers, not glass bottles; type of fluid may vary depending on local requirements
	10	Chlorhexidine preps
	2	Sets of intravenous catheters, one each 14G through 24G
	2	Intraosseous needles or devices appropriate for adults
	2	Intraosseous needles or devices appropriate for infants and children
	2	Venous tourniquets
	1	Sharps container, portable
	4	1 mL syringes
	6	3- or 5-mL syringes
	4	10- or 12-mL syringes
4	Hypodermic needles individually packaged or integrated into syringes suitable for intramuscular medication administration	

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MINIMUM **MIC-PARAMEDIC VEHICLE** EQUIPMENT LIST

CATEGORY	QTY	EQUIPMENT DESCRIPTION
ALS Vascular Access (Cont'd)	8	Needles or adapters suitable for insertion/connection into IV line. May omit for IV sets with integral syringe adapters.
	4	Intravenous administration sets (macro drip)
	2	Intravenous administration sets (micro drip)
	1	Intravenous arm boards, pediatric
ALS Cardiac	1	Portable, battery-operated monitor/defibrillator with tape write-out/recorder and 12 lead ECG acquisition /interpretation capability.
	2	Adult-sized electrical therapy (defibrillation/cardioversion) electrodes/pads
	2	Pediatric-sized electrical therapy (defibrillation/cardioversion) electrodes/pads
	20	Adult monitoring electrodes
	20	Infant-sized monitoring electrodes
	1	Spare monitor battery
	1	Spare ECG paper
	1	Transcutaneous cardiac pacemaker and cables - Either stand-alone unit or integrated into monitor/defibrillator
	2	Adult transcutaneous pacing electrodes/pads. Previously listed defibrillation pads count toward this requirement if they function as combination defibrillation/transcutaneous pacing electrodes
2	Pediatric transcutaneous pacing electrodes/pads. Previously listed defibrillation pads count toward this requirement if they function as combination defibrillation/transcutaneous pacing electrodes	
Other Advanced Equipment	1	Length/weight-based tape or appropriate reference material for pediatric equipment sizing and drug dosing based on estimated or known weight
	2	Direct eye irrigation systems (e.g., Morgan lens or equivalent)
	2	Medication nebulizer assemblies
	1	Adult clear plastic nebulizer mask with strap.
	1	Pediatric clear plastic nebulizer mask with strap.
	1	Non-invasive continuous positive airway pressure (CPAP) or bi-level positive airway pressure delivery device (BiPAP) with all appropriate circuits, connectors and masks to fit small, medium, and large facial structures as defined by the device manufacturer.
	1	Glucometer or blood glucose measuring device with reagent strips and lancets
	2	10 - 14 gauge, 3.25" (8cm) or longer catheter-over-needle device capable of attachment of a syringe to the needle lumen for needle chest decompression in large adults
	2	18-14 gauge, 2" (5cm) over-the-needle catheters capable of attachment of a syringe to the needle lumen for needle chest decompression in infants/children).
	2	23 or 25 gauge butterfly, or 20 or 22 gauge catheter-over-needle device for use in needle decompression of neonates (< 28 days old).

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MINIMUM **MIC-PARAMEDIC VEHICLE** EQUIPMENT LIST

CATEGORY	QTY	EQUIPMENT DESCRIPTION	
Medications (preloaded syringes when available). Drug dosing in children should use processes minimizing the need for calculations, preferably a length-based system.	1,000 mg	Acetaminophen PO (tabs/caps)	
	1,000 mg	Acetaminophen elixir	
	18 mg	Adenosine	
	20 mg	Albuterol for inhalation. Suitable substitute: Albuterol contained in premixed albuterol and ipratropium solution may be counted toward this requirement.	
	450 mg	Amiodarone	
	324 mg	Aspirin, chewable	
	3 mg	Atropine	
	50 grams	D10 intravenous solution. Must carry at least 50 grams in D10 form or another concentration of dextrose and sufficient sterile diluent to prepare same.	
	50 mg	Diltiazem	
	50 mg	Diphenhydramine	
		Epi 1:1,000 nebulized, at least one of the following:	
	5 mg	5 mg of 1mg/ml (1:1,000) to achieve nebulized epinephrine	
	1	Prepackaged nebulized racemic epinephrine 0.5 ml of 2.25% (11.25mg) with 3 mL 0.9% NaCl	
	0.9 mg	Epinephrine 1:1000. Must be supplied so as to be able to deliver three (3) intramuscular injections of 0.15 mg for pediatric patients and 0.3 mg for adult patients.	
	8 mg	Epinephrine 1:10,000. Suitable substitute: 8 mg 1:1000 epinephrine with supplies sufficient to dilute to (8) 1 mg unit doses of 1:10,000 epinephrine.	
	1	Eye anesthetic solution (e.g. tetracaine)	
	2 mg	Glucagon with bacteriostatic water for dilution	
	1.5 mg	Ipratropium for inhalation. Suitable substitute: Ipratropium contained in premixed ipratropium and albuterol solution may be counted toward this requirement.	
	5 grams	Magnesium sulfate	
	125 mg	Methylprednisolone	
	15 mg	Metoprolol	
	4 mg	Naloxone hydrochloride	
	8 tablets or 1 spray bottle	Nitroglycerine	
	4 mg	Norepinephrine	
	200 mEq	Sodium bicarbonate solution for injection	
	2	Supplies to dilute and administer intravenous medication in a measured volume of fluid at a controlled rate (e.g. 50-250 mL IV solution bags, buretrol set, etc.)	
		Anti-emetic medications, at least one of the following :	
	10 mg	Metoclopramide	
	8 mg	Ondansetron	
	10 mg	Prochlorperazine	

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**MINIMUM MIC-PARAMEDIC VEHICLE
EQUIPMENT LIST**

CATEGORY	QTY	EQUIPMENT DESCRIPTION
Medications Cont.		Benzodiazepines, at least one of the following:
		30 mg Diazepam
		8 mg Lorazepam
		20 mg Midazolam
		Narcotic analgesics, at least one of the following:
		300 mcg Fentanyl citrate
		4 mg Hydromorphone
		20 mg Morphine sulfate
		Non-narcotic parenteral analgesics, at least one of the following:
		15 mg Ketorolac
		1 gram Acetaminophen
		4 High Visibility Stickers for Medication Infusion Labelling

ALS-Paramedic First Responder vehicles must carry the following additional minimum equipment:

Other Equipment	1	Battery operated portable suction apparatus. Such unit shall be operable completely independent of parent vehicle for a minimum period of 15 minutes.
Additional medical supplies for ALS first responder vehicles	1	Rigid pharyngeal curved suction tip (e.g., yankauer) & wide-bore suction tubing
	3	Lubricating Jelly (water soluble). Single use packet or tube.
	1	Penlight. Suitable substitute: small flashlight suitable for checking pupillary response and eye movement
	1	Pulse oximeter
	1	Adult probe. Suitable substitute: Pulse oximeter approved for use on adults.
	1	Pediatric probe. Suitable substitute: Pulse oximeter approved for use on infants and small children.
	1	Child/Pediatric Sphygmomanometer
	1	Pediatric Stethoscope. Suitable substitute: Stethoscope that integrates both pediatric and adult sized diaphragms.
	1	Bulb suction for infants
	1	Shaving device capable of removing excessive chest hair
	1	Adult Rigid Cervical collar set: Complete set of fixed collars across adult size range (e.g. Noneck, short, medium, tall) Suitable substitute: 2 adjustable height collars (e.g. adjustable to fit full range of adult patients).
	1	Child Rigid Cervical collars for ages 2 years or older
	1	Obstetrical kit (separate, sterile kit) containing a minimum of 1 pair sterile gloves, sterile scissors or other cutting utensil, umbilical clamps or tape, sterile vaginal dressings, 2 towels, large plastic bag and swaddling material
	1	Newborn head cover
		Electronic patient care reporting system or patient care charts/forms
		Printed copy or access to electronic version of patient care guidelines
	1	SMART Triage Pack (required)
1	Medication Pump or IV flow restricting/metering device	
15 grams	Glucose in a form easily ingested orally	

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**MINIMUM HELICOPTER
EQUIPMENT LIST**

CATEGORY	QTY	EQUIPMENT DESCRIPTION
Ventilation & Airway Equipment	1	Fixed oxygen administration apparatus with 2 hours supply at 7 lpm flow rate.
	1	Variable controlled flow oxygen regulator permitting adjustment from a minimum of 2 lpm - 25 lpm with visual indication of flow rate.
	1	Variable controlled flow oxygen regulator permitting adjustment from a minimum of 2 lpm - 15 lpm with visual indication of flow rate.
	1	Adult Nasal Cannulas
	1	Child Nasal Cannulas
	1	Adult non-rebreathing transparent masks
	1	Child non-rebreathing transparent masks
	1	Portable oxygen administration apparatus with 30 minutes supply at 7 lpm flow rate, which is operable totally detached from parent vehicle. Such unit shall be capable of accepting attachment to a nasal cannula, mouth/nose mask or as enrichment feed to a forced ventilation unit.
	1	Fixed Suction apparatus with a regulator capable of drawing a vacuum of 300mm of mercury. Must be adjustable for use with pediatrics.
	1	Battery operated portable suction apparatus. Such unit shall be operable completely independent of parent vehicle for a minimum period of 15 minutes.
	1	Wide-bore suction tubing
	1	Rigid pharyngeal curved suction tip (e.g. yankauer)
	1	Flexible suction catheter between 6F-10F
	1	Flexible suction catheter between 12F-16F
	2	Adult BVMs (Hand-operated, self-re-expanding bag [>1000 ml] with oxygen reservoir/accumulator and tubing, valve (clear, disposable, operable in cold weather) and transparent adult mask
	1	Child BVMs (Hand-operated, self-re-expanding bag [450-750 ml] with oxygen reservoir/accumulator, valve (clear, disposable, operable in cold weather) and transparent child mask
	1	Infant masks for BVM. Labeling may vary but should be sized to accommodate appropriate seal on full-term infants (<5 kg or 11 lb)
	1	Neonatal masks for BVM. Labeling may vary but should be sized to accommodate appropriate seal on low-birth weight infants (<2.5 kg or 5.5 lb)
	1	Complete set infant to adult sized oropharyngeal airways
	1	Pulse oximeter
	1	Adult probe. Suitable substitute: Pulse oximeter approved for use on adults.
	1	Pediatric probe. Suitable substitute: Pulse oximeter approved for use on infants and small children.
	1	Bulb suction for infants
Immobilization Devices	1	Adult Rigid Cervical collars: Complete set of fixed collars across adult size range (e.g. No-neck, short, medium, tall) Suitable substitute: 2 adjustable height collars (e.g. adjustable to fit full range of adult patients).
	1	Child Rigid Cervical collars for ages 2 years or older
Bandages	3	Abdominal dressings, 5"x 9" or larger
	6	4" x 4" sterile gauze pads/sponges or suitable size
	2	Soft, self-adhering gauze rolls
	1	Hypoallergenic adhesive tape
	1	Adhesive tape

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MINIMUM HELICOPTER EQUIPMENT LIST

CATEGORY	QTY	EQUIPMENT DESCRIPTION
Bandages cont.	2	Arterial tourniquets (commercially manufactured)
OB Kit	1	Obstetrical kit (separate, sterile kit) containing a minimum of 1 pair sterile gloves, sterile scissors or other cutting utensil, umbilical clamps or tape, sterile vaginal dressings, 2 towels, large plastic bag and swaddling material
Misc.	1	Adult Sphygmomanometer (with standard adult and large adult size cuffs)
	1	Child/Pediatric Sphygmomanometer
	1	Stethoscope(s) suitable for adult and pediatric patients
	1	Penlight. Suitable substitute: small flashlight suitable for checking pupillary response and eye movement
	1	Heavy scissors or shears for cutting clothing, belts, boots, etc.
	1	Battery operated, hand-carried flashlights suitable for illuminating both a localized work area or walkway. Rechargeable or has extra set of batteries. Penlights do not meet this requirement.
	2	Thermal blankets. "Bath blanket" does not meet this requirement.
	2	Towels
	1	Set of commercially manufactured, soft and padded wrist and ankle patient restraints labeled by vendor as appropriate for restraining violent patients.
	1	Electronic patient care reporting system or patient care charts/forms
	1	Printed copy or access to electronic version of patient care guidelines
	2	Lubricating jelly (water soluble). Single use packets or tubes.
	1	A bag intended to bring all necessary equipment to the patient in order to function at the level of service to be provided.
Infection Control <i>Latex-free equipment should be available</i>	1	Single-use examination gloves, non-sterile, 8 pairs of each size small, medium, large and extra-large (must meet NFPA 1999 requirements found at www.nfpa.org). May be in original boxes or in other storage containers or bags, separated by size.
	2	Disposable isolation gowns
	2	Face protection (for example, surgical masks)
	2	Splash/droplet eye protection (full peripheral glasses, goggles or face shield)
	2	Pairs of shoe covers
	1	Waterless hand cleanser, commercial antimicrobial (towelette, spray, liquid)
	1	Sharps container
	1 per crew member	Disposable respiratory protection - appropriately sized to crew member based on fit-testing - filtration standard N95 or better.
4	Loose fitting surgical masks for source patient control	
Injury Prevention	1	Pediatric passenger restraint system that either 1) is commercially manufactured for the specific purpose of securing a pediatric patient within the patient compartment of an ambulance during transport or 2) a child passenger restraint system that meets the requirements of the Code of Federal Regulations, Title 49, Part 571.213, as amended, child restraint systems, and displays a permanent label indicating all information required by such regulations, including but not limited to the following: "This child restraint system conforms to all applicable Federal Motor Vehicle Safety Standards."

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2022 CONNECTICUT

2022 CHANGES INDICATED IN **BOLD>**

MINIMUM HELICOPTER EQUIPMENT LIST

v2022.1

CATEGORY	QTY	EQUIPMENT DESCRIPTION
Injury Prevention	1	Emergency Response Guidebook (most recent edition - electronic or hardcopy)
	1 per crew member	Reflective safety wear for each crewmember (must meet or exceed ANSI/ISEA performance class II or III if working within the right of way of any federal-aid highway (visit www.reflectivevest.com/federalhighwayruling.html for more information)
ALS Ventilation & Airway Equipment	2	Laryngoscope handles with one set of extra batteries (ea), must accommodate all blade sizes.
	1	Set of Laryngoscope blades, sizes 0-4, straight; Sizes 2-4, curved
	1	Extra bulb(s) for laryngoscope blades. Must have at least one spare bulb for each size/type of bulb used in required blades. Fiber optic systems in which the bulb is integrated into the handle are exempt from this requirement.
	1	Sets of endotracheal tubes, both whole and half sizes 2.5-5.5 mm (cuffed or uncuffed) and 6-8 mm cuffed. Other sizes optional. Must be sterile and individually wrapped.
	1	Sets of sterile, soft suction catheters in the following sizes: 6 F, 8 F, 10 F and 12 or 14 F. Must be sterile and in original, unbroken packaging.
	2	10 mL syringes
	1	Set of stylets suitable for neonatal, pediatric and adult endotracheal tubes (e.g. Sizes 6, 10 and 14 F). Sterile in original packaging.
	1	Supplies to secure an adult endotracheal tube
	1	Supplies to secure a pediatric endotracheal tube
	1	Adult Magill forceps
	1	Pediatric Magill forceps
	1	End-tidal CO2 quantitative waveform capnography
	2	Endotracheal tube adapter for end-tidal CO2 capnography (pediatric and adult)
	1	Endotracheal tube introducer (Bougie) - sterile in original packaging.
	1	Ventilator capable of both volume and pressure limited ventilation
	1	Cricothyrotomy supplies suitable for establishing an emergency airway on adult and pediatric patients.
	1 set	PEEP valves compatible with service's BVM exhalation port. At a minimum, must have settings or valves for both 5 and 10 cm H2O
	1	Adapter to allow for administration of nebulized medications through BVM and/or CPAP.
Vascular Access	4000 mL	Crystalloid intravenous solutions, such as Ringer's lactate or normal saline solution (1000 mL bags); fluid must be in bags or plastic containers, not glass bottles; type of fluid may vary depending on local requirements
	10	Chlorhexidine preps
	2	Sets of intravenous catheters, one each 14G through 24G
	2	Intraosseous needles or devices appropriate for adults
	2	Intraosseous needles or devices appropriate for infants and children
	2	Venous tourniquets
	2	1 mL syringes
	2	3- or 5-mL syringes

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**MINIMUM HELICOPTER
EQUIPMENT LIST**

CATEGORY	QTY	EQUIPMENT DESCRIPTION
Vascular Access	2	10 mL syringes
	2	Hypodermic needles individually packaged or integrated into syringes suitable for intramuscular medication administration
	4	Needles or adapters suitable for insertion/connection into IV line. May omit for IV sets with integral syringe adapters.
	2	Intravenous administration sets (macro drip)
	1	IV pump(s) capable of administering at least 3 continuous infusions
	1	Ability to monitor at least 1 invasive pressure line
	1	Intravenous arm boards, pediatric
ALS Cardiac	1	Portable, battery-operated monitor/defibrillator with tape write-out/recorder and 12 lead ECG acquisition /interpretation capability.
	2	Adult-sized electrical therapy (defibrillation/cardioversion) electrodes/pads
	2	Pediatric-sized electrical therapy (defibrillation/cardioversion) electrodes/pads
	10	Adult monitoring electrodes
	20	Infant-sized monitoring electrodes
	1	Spare monitor battery
	1	Spare ECG paper
	1	Transcutaneous cardiac pacemaker and cables - Either stand-alone unit or integrated into monitor/defibrillator
	2	Adult transcutaneous pacing electrodes/pads. Previously listed defibrillation pads count toward this requirement if they function as combination defibrillation/transcutaneous pacing electrodes
	2	Pediatric transcutaneous pacing electrodes/pads. Previously listed defibrillation pads count toward this requirement if they function as combination defibrillation/transcutaneous pacing electrodes
1	Shaving device capable of removing excessive chest hair.	
Other Advanced Equipment	1	Length/weight-based tape or appropriate reference material for pediatric equipment sizing and drug dosing based on estimated or known weight
	1	Medication nebulizer assemblies
	1	Adult clear plastic nebulizer mask with strap.
	1	Pediatric clear plastic nebulizer mask with strap.
	1	Non-invasive continuous positive airway pressure or bi-level positive airway pressure delivery device with mask sizes sufficient to fit a range of adult patients.
	1	Glucometer or blood glucose measuring device with reagent strips and lancets
	2	10 - 14 gauge, 3.25" (8cm) or longer catheter-over-needle device capable of attachment of a syringe to the needle lumen for needle chest decompression in large adults
	2	14, 16, 18 gauge, 2" (5cm) over-the-needle catheters capable of attachment of a syringe to the needle lumen (suitable gauge and length for needle chest decompression in infants/children)
	2	23 or 25 gauge butterfly, or 20 or 22 gauge catheter-over-needle device for use in needle decompression of neonates (< 28 days old).
Medications	1,000 mg	Acetaminophen PO (tabs/caps)
	1,000 mg	Acetaminophen elixir
	18 mg	Adenosine

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MINIMUM HELICOPTER EQUIPMENT LIST

CATEGORY	QTY	EQUIPMENT DESCRIPTION	
Medications (preloaded syringes when available). <i>Drug dosing in children should use processes minimizing the need for calculations, preferably a length-based system.</i>	20 mg	Albuterol for inhalation. Suitable substitute: Albuterol contained in premixed albuterol and ipratropium solution may be counted toward this requirement.	
	450 mg	Amiodarone	
	324 mg	Aspirin, chewable	
	3 mg	Atropine	
	50 grams	D10 intravenous solution. Must carry at least 50 grams in D10 form or another concentration of dextrose and sufficient sterile diluent to prepare same.	
	50 mg	Diltiazem	
	50 mg	Diphenhydramine	
	Epi 1:1,000 nebulized, at least one of the following:		
	1	Prepackaged nebulized racemic epinephrine 0.5 ml of 2.25% (11.25mg) with 3 mL 0.9% NaCl	
	5 mg	of 1mg/ml (1:1,000) to achieve nebulized epinephrine	
	0.9 mg	Epinephrine 1:1000. Must be supplied so as to be able to deliver three (3) intramuscular injections of 0.15 mg for pediatric patients and 0.3 mg for adult patients.	
	8 mg	Epinephrine 1:10,000. Suitable substitute: 8 mg 1:1000 epinephrine with supplies sufficient to dilute to (8) 1 mg unit doses of 1:10,000 epinephrine.	
	1	Eye anesthetic solution (e.g., tetracaine)	
	5 mg	Glucagon with bacteriostatic water for dilution	
	1.5 mg	Ipratropium for inhalation. Suitable substitute: Ipratropium contained in premixed ipratropium and albuterol solution may be counted toward this requirement.	
	5 grams	Magnesium sulfate	
	125 mg	Methylprednisolone	
	15 mg	Metoprolol	
	4 mg	Naloxone hydrochloride	
	8 tablets or 1 spray bottle	Nitroglycerine	
	4 mg	Norepinephrine	
	200 mEq	Sodium bicarbonate solution for injection	
	2	Supplies to dilute and administer intravenous medication in a measured volume of fluid at a controlled rate (e.g. 50-250 mL IV solution bags, buretrol set, etc.)	
	Anti-emetic medications, at least one of the following:		
	10 mg	Metoclopramide	
	8 mg	Ondansetron	
	10 mg	Prochlorperazine	
	Benzodiazepines, at least one of the following:		
	30 mg	Diazepam	
	8 mg	Lorazepam	
20 mg	Midazolam		

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**2022 CONNECTICUT
MINIMUM HELICOPTER
EQUIPMENT LIST**

2022 CHANGES INDICATED IN **BOLD**

v2022.1

CATEGORY	QTY	EQUIPMENT DESCRIPTION
Medications (preloaded syringes when available).		Calcium intravenous medications, at least one of the following:
	2 grams	Calcium chloride
	4 grams	Calcium gluconate
		Narcotic analgesics, at least one of the following:
	300 mcg	Fentanyl citrate
	4 mg	Hydromorphone
	20 mg	Morphine sulfate
		Non-narcotic parenteral analgesics, at least one of the following:
	15 mg	Ketorolac
	1 gram	Acetaminophen
4		High Visibility Stickers for Medication Infusion Labelling

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**2022 CONNECTICUT
MINIMUM EQUIPMENT LIST
2021-2022 CHANGE SUMMARY**

LIST/CATEGORY	CHANGE
First Responder Level Equipment	
Misc.	ADDED: a first in bag/kit to bring equipment to the patient's side.
Basic Ambulance Level Equipment	
Ventilation and Airway Equipment	CORRECTED: Typo in flow rate of oxygen regulator
Bandages	CHANGED: number of required occlusive dressings from 4 to 2
	CHANGED: 2 Hypoallergenic adhesive tape, various sizes including 1" and 2" to 2 Hypoallergenic adhesive tape, 1" or wider
	CHANGED: 2 Adhesive tape, various sizes including 1" and 2" to 2 Adhesive tape, 1" or wider
Injury Prevention	ADDED: Suitable substitute: a minimum of 3 hours duration red burning flares.
Misc.	REMOVED: or patient care charts or forms
	ADDED: a first in bag/kit to bring equipment to the patient's side.
(MIC) AEMT Vehicle List	
Additional medical supplies for MIC-AEMT first responder vehicles	REMOVED: or patient care charts or forms
(MIC) Paramedic Vehicle List	
	ADDED: Pediatric extra glottic airways
ALS Ventilation & Airway Equipment	REMOVED: Meconium aspirator or adaptor for endotracheal tube
Medication	ADDED: 4 High Visibility Stickers for Medication Infusion Labelling
Other Advanced Equipment	CHANGED: Large bore over-the-needle catheters capable of attachment of a syringe to the needle lumen (should be at least 3.25" in length for needle chest decompression in large adults) to 10 - 14 gauge, 3.25" (8cm) or longer catheter-over-needle device capable of attachment of a syringe to the needle lumen for needle chest decompression in large adults
	CHANGED: Flexible suction catheter between 12F-16F For Paramedic transport vehicles

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**2022 CONNECTICUT
MINIMUM EQUIPMENT LIST
2021-2022 CHANGE SUMMARY**

LIST/CATEGORY	CHANGE
	<p>CHANGED: "2 each- Medium-bore over-the-needle catheters capable of attachment of a syringe to the needle lumen (suitable gauge and length for needle chest decompression in infants/children)" to "2 each- 14, 16, 18-gauge, 2" (5cm) over-the-needle catheters capable of attachment of a syringe to the needle lumen (suitable gauge and length for needle chest decompression in infants/children)"</p> <p>ADDED: 2 23 or 25 gauge butterfly, or 20 or 22 gauge catheter-over-needle device for use in needle decompression of neonates (< 28 days old).</p> <p>REMOVED: or patient care charts or forms</p>
Helicopter List	
ALS Ventilation & Airway Equipment	CORRECTED: Typo in flow rate of oxygen regulator
Misc.	REMOVED: or patient care charts/forms
	ADDED: a first in bag/kit to bring equipment to the patient's side.
Medication	ADDED: High visibility stickers for Medication Infusion Labelling
Other Advanced Equipment	CHANGED: Large bore over-the-needle catheters capable of attachment of a syringe to the needle lumen (should be at least 3.25" in length for needle chest decompression in large adults) to 10 - 14 gauge, 3.25" (8cm) or longer catheter-over-needle device capable of attachment of a syringe to the needle lumen for needle chest decompression in large adults
	CHANGED: "2 each- Medium-bore over-the-needle catheters capable of attachment of a syringe to the needle lumen (suitable gauge and length for needle chest decompression in infants/children)" to "2 each- 14, 16, 18-gauge, 2" (5cm) over-the-needle catheters capable of attachment of a syringe to the needle lumen (suitable gauge and length for needle chest decompression in infants/children)"

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**2022 CONNECTICUT
MINIMUM EQUIPMENT LIST
2021-2022 CHANGE SUMMARY**

LIST/CATEGORY	CHANGE
	ADDED: 23 or 25 gauge butterfly, or 20 or 22 gauge catheter-over-needle device for use in needle decompression of neonates (< 28 days old).

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