

# NORTHWEST COMMUNITY EMS SYSTEM - Drug/Supply/Equipment List

## Last revised: 3/7/22

- KEY:** ALS Required on all ALS vehicles unless specified otherwise. All other items are required on BLS and ALS vehicles.  
 \* Drugs identified by an asterisk (\*) are controlled substances and must be stored and accounted for per system policy.  
 \*\* System hospitals must replace all drugs, supplies, and equipment items **EXCEPT** those items indicated by a double asterisk (\*\*). These items must be purchased and/or maintained by the EMS provider agency.  
 IL required by IDPH administrative code section 515.830

- EMS agencies shall assign appropriate personnel to inventory ambulances daily at shift change to ensure complete par levels, intact packaging, current dates, and good working order. All controlled substances must be viewed and counted daily per policy.
- The EMS MD or designees will do random unannounced ambulance inspections to measure compliance with these standards.
- All EMS products exchanged at hospitals must be LATEX- FREE. All non-exchange items must be latex-free unless a waiver has been granted and a latex-containing kit is maintained. Contain latex: Do NOT use without covering equipment or patient: BP cuffs, stethoscopes, Nellcor pulse oximeter.

KEY	Min.	ITEM				PACKAGING
<b>MEDICATIONS (Keep drugs packaged in boxes, in the original box to facilitate correct identification.)</b>						
BLS & ALS	**OPT	Acetaminophen (Tylenol) 650 mg PO (≥13 years)				tablets
ALS	3	Adenosine				6 mg / 2 mL
BLS & ALS	3	Albuterol				2.5 mg / 3 mL (0.083%)
ALS	3	Amiodarone				150 mg / 3 mL amp
BLS & ALS	4 tabs	ASA chewable				81 mg / tablet
ALS	6	Atropine sulfate				1 mg / 10 mL preload
ALS	1	Diphenhydramine for IVP				50 mg / 1 mL
BLS & ALS	2 tabs	Diphenhydramine for PO route				50 mg tablets
BLS & ALS	OPT	Calcium gluconate 2.5% (Calgonate) gel				25 Gm tube
ALS	2	Dextrose 10% (D10W)				25 Gm / 250 mL
ALS	10	Epinephrine 1 mg/10 mL (1mg/mL vials with NS diluent (9 mL) OK during drug shortage)				1 mg / 10 mL preload
BLS & ALS	4	Epinephrine 1 mg/1 mL VIAL				1 mg / 1 mL
ALS	40 mg	Etomidate				40 mg / 20 mL
ALS	3*	Fentanyl	*CS In LOCKED CONTAINER	YES	NO	100 mcg / 2 mL or 50 mcg/1 mL (ampule pref, keep padded)
	(2)*	OR Morphine 10 mg (if able) – if fentanyl unavailable				
BLS & ALS	1	Glucagon				1 mg powder / 1 mL diluent
BLS & ALS	3	Ipratropium bromide 0.02% (Atrovent)				0.5 mg in 2.5 mL NS
ALS	500 mg*	Ketamine	*CS IN LOCKED CONTAINER	YES	No	500 mg/10 mL (50 mg/mL) or other combination of 500 mg
ALS	60 mg	Ketorolac tromethamine (alt pain med during shortage)				30 mg/mL
ALS	2	Lidocaine 2%				100 mg / 5 mL preload
ALS	Need 4 Gm	Magnesium sulfate 50%				(1ea) 5 Gm / 10 mL OR (2ea) 1 Gm / 2 mL or (2 ea) 2 Gm in 50 mL NS IVPB
ALS*	2*	Midazolam	*CS IN LOCKED CONTAINER	YES	No	10 mg / 2 mL
	(2)*	OR Diazepam 10 mg – if midazolam unavailable				
BLS & ALS	4	Naloxone				2 mg / 2 mL
BLS & ALS	1 bottle	Nitroglycerin				0.4 mg (1/150 gr) tabs
ALS**	**OPT	Nitrous oxide (replacement for pain med during shortage)				
ALS	1	Norepinephrine & 2 preprinted labels for IV and tubing				4 mg / 4 mL (vial preferred)
		OR Dopamine premix (1600 mcg/mL) if norepi unavailable				400 mg / 250 mL or 800 mg / 500 mL D5W
ALS	2	Ondansetron				2 mg / mL (2 mL vial)
BLS & ALS	2	Ondansetron				4 mg ODT
ALS	1	Sodium bicarbonate 8.4%				50 mEq / 50 mL preload
ALS	1	Tetracaine ophthalmic solution				0.5% / 1-2 mL
ALS	2	Verapamil				5 mg
BLS & ALS	2	Normal saline (sterile)				1000 mL irrigation bottle
IL	1 quart	Drinking water (may be sterile water bottle)				
ALS	4	IV solution: Normal saline (2 in warmer; 2 room temp)				1000 mL bag
ALS	1	IV solution: Normal saline				250 mL bag

KEY	Min.	ITEM	PACKAGING
ALS	2	NS injection (keep 1 w/ EZ-IO supplies)	10-20 mL preload syringes (May increase # to dilute epi during drug shortage)
	2	<b>MAD® (Mucosal Atomization Device):</b> MAD 100 w/ syringe or MAD 300 w/o syringe Wolfe Tory Medical, Inc. 79 West 4500 South, Suite 16, Salt Lake City, UT 84107, 888-380-9808	
ALS	**4	Medication labels (for meds drawn up into syringes by one person and given by another) May use adhesive mailing labels on which the medication name & concentration can be written.	
<b>AIRWAY EQUIPMENT</b>			
IL	1 ea.	Oropharyngeal airways: 6/110 mm, 5/100, 4/90, 3/80, 2/70, 1/60, 0/50, 00/40 mm	
	2	Tongue blade (for insertion of oral airways – keep with oral airways)	
IL	1 ea size	Nasopharyngeal airways: 12Fr/3, 14Fr/3.5, 16Fr/4, 18Fr/4.5, 20Fr/5, 22Fr/5.5, 24Fr/6, 26Fr/6.5, 28Fr/7, 30Fr/7.5, 32Fr/8, 34Fr/8.5mm	
ALS	2 each	<b>Endotracheal tubes:</b> High volume/low pressure cuff - stored in sterile packaging. 6 or 6.5mm, 7 or 7.5mm, cuffed for use with King Vision curved channeled blade	
ALS	2 adult (1 ea. size w/ cric kit)	<b>Bougie with Coude Tip – disposable (required for all King Vision attempts and surgical crics)</b> Portex Smiths Medical, Single Use Bougie Coude Tip 15 Fr X 60-70 cm and 10 Fr, ref 100/123/515 SunMed, ref 9-0212-70 <a href="http://store.airwaycam.com/bougie---tube-introducer-with-coude-tip-10/box">http://store.airwaycam.com/bougie---tube-introducer-with-coude-tip-10/box</a>	
IL	3 packets	Water-soluble lubricant (individual packets)	
	1	High-Efficiency Particulate Air (HEPA) viral and bacterial filter for use during BVM & ETI procedures. Multiple brands are OK as long as they are validated against the passage of COVID-19 and Mycobacterium tuberculosis in addition to standard test micro-organisms. <ul style="list-style-type: none"> <li>Mercury Medical Bacterial and Viral Filter -#10-55375 - 20/box (Mercury Medical) (attaches to port on BVM)</li> <li>Intersurgical 1944000 Filta-Guard™ breathing filter</li> <li>Airlife® disposable Bacterial/Viral filter - #001851 - VYAIR Medical, Inc. (Boundtree) (attaches directly to mask or ETT)</li> </ul>	
<b>Choking kit</b>			
	1	Adult or Peds laryngoscope handle -Welch-Allyn or Rusch compatible with disposable blade	
	1 set ea.	Alkaline batteries: C or D appropriate for handle size	
		<b>Disposable laryngoscope blades – 1 miller</b> standard or fiber-optic. Ensure compatibility between blades and handles.	
ALS**	1 (optional brands)	Disposable <i>Standard</i> laryngoscope blade	
		Rusch <i>Lite Slim</i> disposable blades <a href="http://www.teleflex.com/">http://www.teleflex.com/</a> : 1 miller 00485 1100	
		Disposable <i>fiber optic</i> laryngoscope blade – approved options:	
		"Green Rusch Lite disposable fiber optic blades" <a href="http://www.teleflex.com/en/usa/productAreas/anesthesia/documents/2012-0795_Green_Rusch_Lite_Data_Sheet.pdf">http://www.teleflex.com/en/usa/productAreas/anesthesia/documents/2012-0795_Green_Rusch_Lite_Data_Sheet.pdf</a> - 00455 0001	
		Curaplex metal fiber optic blades <a href="http://www.curaplex.com/docs/Curaplex_Laryngoscope_Blades.pdf">http://www.curaplex.com/docs/Curaplex_Laryngoscope_Blades.pdf</a> - 301-B5110	
		Flexicare Briteblade Pro <a href="http://www.flexicare.com/us/products/airway-management/single-use-laryngoscopes/briteblade-pro.aspx">www.flexicare.com/us/products/airway-management/single-use-laryngoscopes/briteblade-pro.aspx</a>	
		1 miller <span style="float: right;">040-721U</span>	
	1	Magill or uterine curved ring forceps for FB removal	
ALS (**)	1	<b>Adult intubation laryngoscopy equipment:</b> <b>King Vision, 1 Reusable Digital Display.</b> Suggested vendor and preferred pricing: Boundtree	
ALS	2	<b>King Vision Video Laryngoscope Blade</b> , Channeled, Disp, 18mm, w/White LED, Digital CMOS Camera	
ALS	1 1 1 1 1 1	<b>i-gel® Supraglottic airway (Resus pack includes i-gel, lube, strap) (Boundtree)</b>	
		Size 5, <b>large adult</b> 200+ LBS / 90+kg (2114-87303 Resus Pack) 6/case	
		Size 4, <b>medium adult</b> 110-200 LBS / 50-90kg (2114-87302 Resus Pack) 6/case	
		Size 3, <b>small adult</b> 65-130 LBS / 30-60kg (2114-87301 Resus Pack) 6/case	
		Size 2.5, <b>large pediatric</b> 55-77 LBS / 25-35kg (2114-08225)	
		Size 2.0, <b>small pediatric</b> 22-55 LBS /10-25kg (2114-08202)	
	1	Size 1.5, <b>infant</b> 11-25 LBS / 5-12kg (2114-08215)	
ALS	1 ea. size	<b>ETT holders –Thomas Select Tube</b> holder (adult) 25/package; secures ETT & King LT airways ≥ 6.5 mm (inner diameter) to 42 mm (outer diameter): Laerdal 600-42500	
	1 opt.	Lyfetymer LED ventilation metronome (flashes 10x/min) <a href="http://www.lyfetymer.com">www.lyfetymer.com</a> .	
<b>Cricothyrotomy supplies: Recommend store as a kit</b>			
	2	Skin prep: Chlorhexidine gluconate 2% w/ isopropyl alcohol 70% (CHG/IPA) preferred	
ALS	1	10-12 G catheter over the needle device; 3-3.25" long	
ALS	1 each	ETT: 6mm for adults; 4mm, 5mm uncuffed or cuffed (peds surgical cric 8-12 y/o )	
ALS	2 each	Adaptor to connect catheter to bag-valve device: 3 mL syringe & 7-7.5 mm ET tube adaptor	

KEY	Min.	ITEM	PACKAGING
ALS	1	ETCO <sub>2</sub> inline sensor	
ALS	1	10 or 20 mL syringe (to function as EDD when performing needle cric; inflate cuff if surgical cric)	
ALS**	1	Curved Kelly hemostat clamp or spreader; tracheal hook optional	
ALS	1	#11 Scalpel	
ALS	1 ea. size	Bougie w/ Coude tip: must be used for all surgical crics, 15 Fr x 60-70 cm and 10 Fr – disposable	
<b>SUCTION-RELATED EQUIPMENT</b>			
**	1 (amb)	<b>Installed suction:</b> Must provide airflow of >20 L/min at end of delivery tube and a vacuum of >300 mmHg (11.811 inches) to be reached within 4 sec. after tube is clamped. Vacuum levels shall be adjustable for use with children and intubated patients. Must be a "Y" or "T" piece or a lateral opening between suction tube and suction source for on/off control. The suction yoke, unbreakable collecting bottle, water for rinsing, and suction tube must be readily accessible to the responder at the head of the primary litter. Can be disassembled for ease of cleaning and decontamination.	
**	1 (amb)	Clean, unbreakable, noncollapsible collection bottle (receptacle) that holds 1000 mL. If the standard option is too tall for the ambulance compartment may use Bemis 1200 mL Hi-Flow canister #484410.	
	2 (amb)	6-10 ft. non-kinking, transparent, noncollapsible suction tubing; ¼" inside diameter.	
** IL	1	<b>Portable suction:</b> Ohmeda or approved equivalent. <i>Specifications:</i> Unit must provide airflow of at least 12 L/min at the end of the suction tube and a vacuum of at least 300 mmHg (11.811 inches) to be reached within 4 sec after the tube is clamped. Unit must operate from an internal battery supply that is rechargeable or gas-powered and will allow the unit to meet the airflow and suction requirements for at least 20 continuous minutes. Capable of charging from vehicle 12-volt system and 115 volt AC. If the portable suction unit is powered by pressurized oxygen in a cylinder, it will be attached to its own oxygen cylinder and not to spare D or E cylinders intended for portable oxygen use. A manually operated suction device is acceptable if approved by IDPH. V-Vac & Res-Q-Vac® approved	
IL	2 each	6 Fr, 8 Fr 10 Fr, 12 Fr, 14 Fr, 18 Fr sterile, single use, soft suction catheters, with on/off control	
IL	3	<b>DuCanto Catheter™</b> SSCOR # 200-00002 (larger distal opening). <b>MANDATORY after 7/1/18.</b>	
		Semi-rigid pharyngeal suction tips: single use (Yankauer) – phase out by attrition	
<b>OXYGEN/DELIVERY DEVICES</b>			
**	1 (amb)	Installed O <sub>2</sub> tank: Central "H" or "M" size. Supplied with at least 3000 L of O <sub>2</sub> ; equipped with yoke. <ul style="list-style-type: none"> <li>Installed w/ quick release, crash-stable, mounting bracket to provide maximum safety for patients and personnel.</li> <li>Must be equipped with a reducing valve (from 2000 PSI cylinder to 50 PSI) with a pressure gauge.</li> <li>Must have an O<sub>2</sub> outlet accessible to the technician at the head of the primary litter and clear, disposable oxygen tubing.</li> </ul>	
** IL	2	Portable O <sub>2</sub> tanks: "D" or "E" w/ at least 300 L capacity equipped w/ yokes, clear, disposable O <sub>2</sub> tubing	
**	2	Dial flow meters/regulators (not gravity-dependent) that will deliver at least up to 15 L/minute	
IL	3 each	Nasal cannula – adult & pediatric OR nasal cannula with ETCO <sub>2</sub> sensor	
IL	2 adult 1 each	Non-rebreather masks: semi-open, valveless, transparent, and disposable. Pediatric (1) & Infant (1)	
IL	1	CPR mask (mouth-to-mask unit w/ O <sub>2</sub> inlet and one-way safety valve to prevent backflow of expired air and secretions)	
	1	Nebulizer: acorn type with tee adaptor oxygen tubing, mouthpiece, and flex-tube	
	1 OPT	Teleflex ISO-NEB, Medline Ref# 1755. GOOD (recommended) <b>OPTION</b> to use on pts with a communicable respiratory illness. <a href="https://www.medline.com/jump/product/x/Z05-PF30775">https://www.medline.com/jump/product/x/Z05-PF30775</a> (Teleflex) Also approved: Hudson RCI ISO neb filtered nebulizer System	
	1	"In-line" Nebulizer adaptor kit for BVM/ET (preassembled in a labeled bag) (15 mm + 22 mm: Hudson RCI multi-adaptor cat. No. 1422 and Universal cuff adapter cat. no. 1421)	
	1	Mercury Medical Flow-Safe II EZ <b>CPAP</b> System Model #10-57318 (large mask with one O <sub>2</sub> source, built-in neb) Model # 10-57319 has small mask. System quote per MedAlliance Group, Replace old CPAP masks by attrition	
IL	1 adult	Disposable adult BVM device: Vital Signs Code Blue w/ mask & reservoir tubing/bag #7250; Ambu Spur w/ mask & reservoir #242002000; Inspiron 8003 - w/ oxygen reservoir & mask; Mercury bag w/ reservoir & mask; SIMS Portex, Novaplus/1st Response. SunMed AIRFLOW™ manual resuscitation/ventilation bag + Ventlab's integrated pressure manometer, and bacterial/viral filter Option (not exchange item): Capno-flow resuscitation bag	
IL	1 pediatric	Disposable pediatric BVM: (500 mL w/ reservoir): SIMS Portex, Novaplus/1st Response; Vital Signs Code Blue #7334 w/ 2 masks (1 Toddler; 1 child) Inspiron; Ambu Spur Pediatric w/ mask & reservoir #330 001 000; AMBU 513-613-030 pediatric bag/closed/tube reservoir, manometer, toddler and child mask	
IL	1 infant	Disposable infant BVM: SIMS Portex, Novaplus/1st Response; Vital Signs Baby Blue #7421 with 2 masks 1 infant and 1 newborn; AMBU 544-216-030 Infant bag/closed/tube reservoir, manometer, infant and neonate mask	
ALS**	1 opt.	Zoll Z ventilator, Auto-Vent, PneuPac® VR1 automatic resuscitator ventilator or approved equivalent	

VASCULAR ACCESS SUPPLIES		
ALS	2	IV tubing: Macro drip 10, 15 or 20 gtt/mL - needleless required: Baxter Continu-flo Interlink solution set (No. 2C6537S) or Abbott LifeShield (No. 11309) PLUS the B-D Interlink lever-lock cannula adaptor (No. 303370); Alaris Smart Site infusion set (20gtts) Alaris/Carefusion #2426-0500; Smart Site infusion set (60gtts) Alaris #2421-0500 - Cardinal Health
ALS	1	IV tubing: Mini (micro) drip 60 mcgtts/mL
ALS	2	J-loops / IV extension sets (mandatory for IV starts if not using BD Nexiva)
<b>Catheter-over-the-needle devices: Preferred Option: BD Nexiva closed IV catheter System with dual OR single lumen port (Contact: Paige Gruber) (Single lumen works w/ CT injectors) Should be exchanged at all hospitals in 2022</b>		
ALS	2	14 G 1.25" or 2"
ALS	2	16 G 1.25"
ALS	2	18 G 1.25" – BD Nexiva closed IV catheter System with dual port #383539; single port 383594 (green)
ALS	2	20 G 1." - BD Nexiva closed IV catheter System with dual port #383536; single port 383592 (pink)
ALS	2	22 G 1"- BD Nexiva closed IV catheter System with dual port #383532; single port 383591 (blue)
ALS	2	24 G ¾"- BD Nexiva closed IV catheter System with dual port #383531; single port 383590 (yellow)
ALS	2 opt.	Disposable IV start pack (Becton-Dickinson or equivalent) with CHG/IPA skin prep
ALS	2	IV protective dressing (Tegaderm, OpSite, or Veni-Gard)
ALS	2	Venous constricting bands (preferably in IV start pack)
ALS	1	Padded arm boards
ALS**	1 opt	Modular IV kit (Insulating bag for keeping IV fluids warm): Conterra IVK1-I; <a href="mailto:info@conterra-inc.com">info@conterra-inc.com</a>
ALS**	1	<b>IV fluid warmer device or drawer:</b> IVF may be warmed in their plastic over pouches to temperatures not exceeding 40°C (104°F) and for a period no longer than 14 days. Label IV bags with warming expiration date before placing in warmer. When removed, tag as previously warmed. They should not be returned to the warmer. They may continue to be used until the labeled expiration date from the manufacturer provided they have not been warmed more than once (Policy D3, p. 5).
ALS**	1 ea. Opt,	<b>Sapphire infusion pump</b> (Eitan Group No. Am.); Pump + proprietary tubing module +100 mL bag NS
<b>Intraosseous supplies for front-line ALS ambulances: Recommend package as a unit in one case. (Teleflex)</b>		
ALS**	1	Driver stored in soft or hard-sided case. Do <b>NOT</b> test daily/weekly (decreases battery life).
ALS	2	45 mm ( Yellow) 15 G needle with stabilizer kit
ALS	1	25 mm ( Blue) 15 G needle with stabilizer kit
ALS	1	15 mm ( Pink) 15 G needle with stabilizer kit
ALS	3	EZ-connect® extension sets (supplied w/ needles)
ALS	1	IV Pressure infuser for 1000 mL IV bag (may be disposable): Ventlab VC 410 or equivalent; <a href="http://www.ventlab.com">www.ventlab.com</a>
ALS	1	10 mL (sterile NS prefilled) syringe (to prime connect tubing and flush IO)
ALS	1	10 mL syringe for 2% Lidocaine flush
ALS	2	Skin prep: Chlorhexidine gluconate (CHG 2%) & alcohol (IPA 70%) – (Chloraprep®)
<b>SYRINGES/NEEDLES/SUPPLIES</b>		
ALS	3	10 G Catheter over the needle device; 3" long (Deseret 10 G #2820) Alternative: 10 G 3.25" needles: North Am Rescue <a href="http://www.narescue.com/ARS">http://www.narescue.com/ARS</a> for Needle Decompression Store 1 needle in cric kit; 2 for pleural decompression
ALS**	1 opt	Russell <b>PneumoFix™</b> : 12 G; 11 cm (for pleural decompression) (Boundtree #PDF112)
ALS	2	18 G, 1-1½" needles
BLS & ALS	2	21-22 G, 1½" needles (for IM injections)
ALS	2	25 G, 5/8-1" needles
ALS	2	Filter needles 18 G x 1½" or straws (for withdrawing medications from ampules) Suggested manufacturers: needles Sherwood Cat. # 81-305117; filtered straws Braun FS/5005 #1613199 case/100
ALS	3	Blunt tip safety needles (for drawing medications from vials)
ALS	1 opt	Braun® Fluid Dispensing Connector - BLUE (B. BRAUN MEDICAL, INC); multiple vendors carry
ALS	2 ea.	3 mL; 6 mL; 10-12 mL; 20 mL disposable syringes
BLS & ALS	2	1 mL syringe (luer-lock preferred, BD product # 309628, Kendall-Covidien)
BLS	2	0.5 mL syringe (luer-lock) (for IM epinephrine)
ALS	1	50-60 mL syringe (luer-lock, not irrigation tip)
	2	Skin prep: Chlorhexidine gluconate 2% w/ isopropyl alcohol 70% (CHG/IPA – Chloraprep®)
	1 small	Point-of-use sharp container #8905 Burroughs or approved equiv. meeting OSHA guidelines.
ALS	1 large	Puncture-resistant sharps disposable container that meets OSHA guidelines (Squads exempt)



DIAGNOSTIC MONITORING EQUIPMENT		
ALS** BLS opt.	1	<b>Cardiac monitor/defibrillator</b> w/ pacing, 12-L ECG, SpO <sub>2</sub> ; quantitative waveform capnography; non-invasive BP. Approved units: PhysioControl LifePak 12/15; Zoll (E)/X series; Philips Tempus Pro monitor or, MRx. Biphasic preferred. All units purchased after 3/1/01 must have non-disposable adult and pediatric paddles as backup (IL)
ALS	Monitor specific	<b>Note:</b> As of <b>February 3, 2022</b> , monitor/defibrillators without FDA premarket approval (PMA) and accessories and service for those devices can no longer be provided by medical device manufacturers. The update from the FDA is available on the FDA website ( <a href="https://www.fda.gov/medical-devices/cardiovascular-devices/automated-external-defibrillators-aeds">https://www.fda.gov/medical-devices/cardiovascular-devices/automated-external-defibrillators-aeds</a> ), which includes a list of FDA-approved monitor/defibrillators. Those non-FDA-approved devices that will be impacted on February 3, 2022, include ZOLL® E Series®; ZOLL M Series®; Stryker LIFEPAK 12; and Philips MRx. <b>Real-time CPR feedback</b> - Required before any piston-type mechanical CPR device is deployed. Mandatory for all front-line ALS ambulances after 6/1/18 unless waiver granted: <b>ZOLL CPR Stat Padz</b> , HVP Multi-Function (8 Pair/Case) <b>PhysioControl:</b> TrueCPR™ Coaching Device
**	1	Patient electrode cable - System approved
**	2	Extra charged batteries and battery support charger available
**	2 rolls	ECG paper suitable for the monitor
	2 sets 1 set 1 each Min 20	Pace-defib Pads - Cardiac monitor manufacturer-specific - Adult Peds paddles (Provider may purchase pediatric Medtronic Quik Combo Pad or manufacturer-specific equivalent) 3, 4, or 5-lead and 12-lead monitoring cables Monitoring electrodes (store in closed pkg. to maintain moist gel) Ambu, Zoll or 3M Red Dot
**	Unit specific	<b>Notes on PEDs pads:</b> <b>Zoll Pedi-padz:</b> These defib pads (manufactured by Zoll) are not compatible with the Zoll AED Plus and will not plug into the unit. The Zoll AED Plus Administrators Guide (p. 30) states to use "ZOLL Stat-padz II, CPR-D-padz or Pedi-padz II" and to "Only use electrodes labeled "Infant/Child" on children < 8 years old or weighing <55 lbs. (25 kg). Use CPR-D-padz® if patient is older than 8 years or weighs more than 55 lbs. (25 kg)." <b>Physio-Control Lifepak-15:</b> Use of non-manufacturer recommended pads for LP-15 units, with the intent of using them for peds pts: These pads have limitations for age & weight ranges for infants and children in manual & AED modes. The pads' packaging states that in manual defibrillator mode, these pads <b>cannot be used for children weighing under 22 pounds, and in AED mode, are not to be used for patients under age 8.</b> Cannot use an LP15 in the AED mode for peds regardless of pad type. The LP15 manual, in section 5 pages 5-7, under "Automated External Defibrillation (AED)" states, "In AED mode, the LIFEPAK 15 is not intended for use on peds pts < 8 years old."
**	Opt	3M surgical clipper with single patient use disposable pivoting heads – model 9661.
	1	Washcloth (or towel) to prep skin for 12-L ECG (suggest keep washcloth in monitor pouch)
	10	Alcohol skin prep pads (for 12-L ECGs only)
ALS	1 tube	Conduction gel for defibrillator paddles
BLS**	1	<b>Automated External Defibrillator</b> w/ adult and pediatric capability; Manufacturer specific adult and pediatric pads
**	1	<b>Pulse oximeter:</b> Units installed in system-approved cardiac monitor/defibrillators preferred. Must include: non-disposable peripheral sensor (finger clip) AND central sensor (ear clip or Y sensor - preferred), AND have peds monitoring capabilities (adult Y-sensors can be used for child, infant, neonate). May use: Y-sensor instead of adult finger clip; adhesive sensors. (Approved stand-alone units: BCI, Novamatrix, Nellcor, PaceTech)
ALS** BLS may apply sensors	1 ea per brand monitor carried	<b>Capnography:</b> Side/microstream w/ waveform; units on System-approved cardiac monitor defibrillators need NC plus in-line ETCO <sub>2</sub> sensors (Stand-alone units need system approval): Physio, ZOLL X-series: <ul style="list-style-type: none"> <li>Spontaneously breathing - Oridion Microstream Smart CapnoLine Plus O<sub>2</sub>, 100/case, # 010210</li> <li>Spontaneously breathing - Oridion Microstream Smart CapnoLine Plus O<sub>2</sub>, Pediatric #007269</li> <li>Assisted ventilation - Oridion, Microstream FilterLine Set, 100/case, # 010579</li> </ul> ZOLL - E & M series: <ul style="list-style-type: none"> <li>Spont. breathing - Oral/Nasal CO<sub>2</sub> w/O<sub>2</sub> cannula Adult (10/box ref # 8000-0358)</li> <li>Spont. breathing - Oral/Nasal CO<sub>2</sub> w/O<sub>2</sub> cannula Peds (10/box ref # 8000-0359)</li> <li>Assisted ventilation - Airway Adapter Kit, Adult/Pediatric (10/box ref # 8000-0362)</li> <li>Hudson RCI product cat # 1768 "step-down adapter" (25/case)</li> </ul>
** IL	1 each	Blood pressure cuffs: Adult, Child, Infant assorted sizes (aneroid-type gauge)
** IL	1	Clock that counts seconds (watch or electronic) available at point of pt. contact - for use counting pulse & RR
**	2	Penlights with batteries (may be personal equipment of EMS personnel)
** IL	2	Stethoscopes (diaphragm type)
**	1	Thermometer (non-glass; non-mercury): oral (digital), tympanic membrane, temporal artery; non-contact infrared thermometer all approved

<b>Glucose meters/testing supplies: Vendor &amp; special pricing: Henry Schein EMS; rep info last page</b>		
**	1	<i>Microdot Xtra Glucometer</i> in orange or thermoinsulated pouch with meter disinfection case and timer:
	1 bottle*	<i>Microdot Xtra</i> glucose test strips (label w/ expiration date – *minimum 5 strips ) Test strips (50)/bottle 700-1130 (preferred) or 25/bottle 700-1129
**	1 each	<i>Microdot Xtra</i> Hi/Lo test solution 700-1131 - label w/ discard date (90 days after opening )
	4	<i>Microdot Lancets</i> 700-1775 (May use any brand of lancets)
<b>DRESSINGS/BANDAGES</b>		
IL	20	Sterile 4 X 4s
	4	Sterile ABDs
**	2	<b>Chest seals:</b> Vented with exhaust valve (Bolin) or laminated vent channel (ITLS standard). Hyfin seals provided in Region 9 Mass Violence Kits OK
IL	2 opt	Vaseline gauze 3" X 8"
IL	6	Trauma dressings
	10	Band-Aids - assorted sizes
	1 each	Elastic bandages: 4" width, 6" width
IL	10 each	Self-adhering roller gauze: Kerlix 4" x 5 yards;
IL	2 rolls	Adhesive (surgical) tape: ½" or 1"; 2" (to use w/ towels for c-spine motion restriction)
IL	2	Burn sheets, clean individually wrapped (do not need to be sterile)
	1 roll	Plastic wrap - for burns, large chest wounds; <a href="http://www.acep.org/content.aspx?id=40462">http://www.acep.org/content.aspx?id=40462</a>
	<b>OPT</b>	<b>Water-Jel (Hydrogel) burn dressings:</b> kits or separate sizes; include at minimum facial, hand, and at least one larger dressing. Safeguard Medical. Suggested distributor: Boundtree
	1	<b>Hemostatic gauze: Celox RAPID®</b> 5 foot (Z-fold hemostatic gauze). Combat Medical Systems, PN 30-215 (red package). Special System pricing – Quote: CMS-05795-W8H4 (2) QuikClot – EMS 4X4 Hemostatic Dressing (3 in package) <b>Phase out by attrition.</b>
	2	<b>Tourniquet, disposable:</b> Combat Application Tourniquet (C-A-T ®) – Rescue Orange, Item # 30-0023; North American Rescue Inc., <a href="http://www.narescue.com">www.narescue.com</a> (Henry Schein), Tactical Mechanical Tourniquet (TMT) Combat Medical Systems (see contact info for Celox) or approved equivalent. – Special System pricing available Tourniquets provided in Region 9 Mass Violence Kits satisfy this requirement if on ambulance
<b>SPLINTING/IMMOBILIZATION/SPINE MOTION RESTRICTION EQUIPMENT</b>		
IL	2	<b>Cervical collars adult:</b> Perfit ACE™ Adjustable Collar (AMBU 281 000) Michael Roda773-620-0865 OR Laerdal Stifneck Select™ adjustable collar. Approved alt: Philly EMT's Select adj. extrication collar
	1	<b>Cervical collars peds and infants:</b> Mini Perfit ACE™ Adjustable Extrication Collar (AMBU 281 106) – fits infants and children OR Stifneck extrication collars: Peds CP 300 or peds adjustable collar (light blue)
	1	Baby No-Neck CB 200 (pink) or Mini Perfit ACE™ Adjustable Extrication Collar (AMBU 281 106)
**	1 (amb)	<b>Cervical immobilizer:</b> "Para-Brace," Headbed II (Laerdal) or Ferno Headhugger Model #455; Multi-Grip® Head immobilizer; Pro-Lite® Head immobilizer; Philly Patriot extrication collar; Hoover Headblock or approved equivalent.
** IL	2 each	Rigid limb splints adult: long and short; Pro-Splints or approved equivalent (SAM splint)
** IL	2 each	Rigid limb splints peds: long and short; Pro-Splints or approved equivalent (SAM splint)
** IL	1	Leg traction splint (adult size) Hare, Sager; Faretec CT-6® or Sliselman Traction Splint
** IL	1	Leg traction splint (peds size) Hare or Sager; not required if Faretec CT-6® or Sliselman is carried
**	1 set-opt.	Vacuum splints (adult) MDI: Deluxe pkg. includes; 1 ankle/wrist; 1 ea. small, med, lg. limb splint + pump. Hartwell Medical FASPLINT® semi-disposable vacuum splints: small, medium, large, pump
** IL	1 (amb)	Long backboard: Radiolucent material with 3 torso straps, 9 feet in length, 1 each chin and head strap. Alternative immobilization straps: spider straps, quick connect torso straps or disposable backboard straps.
**	1 (amb)	Backboard padding - blanket layers OR commercial device: Turley Backboard Pad ( <a href="http://www.turleybackboardpad.com">http://www.turleybackboardpad.com</a> ) Thomas EMS Back Raft, EMS Backboard Padding ( <a href="http://www.thomasems.com/Back_Raft.html">www.thomasems.com/Back_Raft.html</a> ); Trauma Travel Pad ( <a href="http://www.traumatravelco.com/about.htm">www.traumatravelco.com/about.htm</a> ) Trauma Technologies Spineboard pad E1431 ( <a href="http://www.traumatechinc.com/products/pro-tech-pads/disposable-spineboard-pad-e1431/">www.traumatechinc.com/products/pro-tech-pads/disposable-spineboard-pad-e1431/</a> ); Pro-Tech Spine Board Gel Pads ( <a href="http://www.traumatechinc.com/products/pro-tech-pads/pro-tech-spine-board-gel-pads/">www.traumatechinc.com/products/pro-tech-pads/pro-tech-spine-board-gel-pads/</a> ); Morrison Medical Pads ( <a href="http://www.morrisonmed.com/3041_PRESSUREPAD.pdf">www.morrisonmed.com/3041_PRESSUREPAD.pdf</a> <a href="http://www.morrisonmed.com/Gel_Pads.pdf">www.morrisonmed.com/Gel_Pads.pdf</a> )
**	1 (amb)	Scoop Stretcher: Ferno 65 (replace 65 via attrition), EXL or CombiCarrier II, or approved equivalent
** IL	1 OR	Short backboard: (32" X 16" min) radiolucent material with 2 each torso straps, 9 feet in length, 1 each chin and head strap R
**	1	KED (Kendrick Extrication Device) vest type (wrap around) device (use for pelvic fx splinting)
IL	5	Triangular bandages or arm slings

MISCELLANEOUS SUPPLIES		
** IL	1 pair	Bandage scissors or all-purpose "crash" scissors
IL	1	Bath basin or emesis receptacle - (ConvenienceBAG™ by GKR Industries)
IL	1 each	Bed pan/urinal (not required on squad)
IL	1 (amb)	Body bag - disposable or surgilift (black sheet) (2 needed during Covid-19 emergency)
** IL	1	Broselow pediatric length-based tape (2017 edition preferred).
BLS & ALS	**Opt	<b>Buzzy®</b> Mini Healthcare or XL Healthcare: Intended for healthcare and multi-patient use. Features 3 minute auto-shutoff and 2 vibration settings. Package Includes: •1 Buzzy® Mini or XL Healthcare (choice of Black, Bee-Striped, or LadyBuzz) •4 Universal Healthcare (soft ice) Wings (need to replace the soft ice wings after each use) •1 Silicone Comfort Strap; •2 AAA Batteries (preinstalled in unit) •1 Instruction Manual For ordering information see: <a href="https://buzzyhelps.com/products/buzzy%C2%AE-xl-healthcare">https://buzzyhelps.com/products/buzzy%C2%AE-xl-healthcare</a>
IL	6 6	Chemically-activated thermal packs: Hot - 5¼" x 10" Cold - 5¼" x 10"
BLS & ALS**	1 opt	<b>Chest compression mechanical CPR Device (approved piston-type CPR devices):</b> Approved units may only be deployed after System-approved education and competency measurement. All disposable elements for each unit are the responsibility of the Provider Agency to replace. <b>Lifeline ARM</b> (Defibtech) - Kristin Schwan; AED Professionals; 348 W. Colfax, Palatine, IL. 60067 O: (847) 202-3233; C: (847) 702-3858; <a href="mailto:Kristin@aedprofessionals.com">Kristin@aedprofessionals.com</a> <b>LUCAS™</b> 2 or 3 Chest Compression System (PhysioControl – See account manager back page) <b>ROSC-U:</b> Bound Tree Medical   Account Manager – see back page
BLS & ALS	1	<b>ResQPOD®</b> impedance threshold device -for use with CPR chest compressions (Zoll)
**	25	Disaster tags – SMART triage tags
	2 (amb)	Disposable drinking cups (may also be used as eye shields)
ALS	1 opt.	<b>EleGARD™ Patient Positioning System</b> to support heads up CPR: AdvancedCPR Solutions; MED Alliance Sales Representative, 888-891-1200. <b>(During field trial only)</b>
	1 box	Facial tissue (Squads exempt)
**	Opt	Nose clips (disposable) "Snuffer"–VacuMed 800-235-3333 <a href="http://www.vacumed.com/zcom/product/Product.do?compid=27&amp;prodid=189">http://www.vacumed.com/zcom/product/Product.do?compid=27&amp;prodid=189</a>
IL	2	<b>OB kits</b> (sterile) plus stockinet caps for neonates and writable ID bracelets
IL	1	OB infant warming: Aluminum foil roll <b>OR</b> **Silver Swaddler <b>OR</b> **Chemically-activated Baby Warmer <b>OR</b> **Mylar blanket
** IL	1 set of 4	<b>Restraints:</b> arm and leg sets; leather or commercially available equivalent; buckle or Velcro types, no key locks. Preferred product: "Twice as Tough" restraints by Posey. Soft, cloth restraints unacceptable.
**	1	Ring cutter
**	As listed	System Refusal/release forms x 10 (unless available electronically) NCR forms available from NWC EMSS office, Bus accident logs x 5, Domestic violence shelter information sheets x 5
**	1 each	SOPs (current edition), selected excerpts from Policy Manual, Procedure Manual (unless available electronically)
UNIVERSAL PRECAUTIONS; HAND HYGIENE; DISINFECTION SUPPLIES		
	1 set approp. size for each responder in close proximity to pt (2 persons) Plus 1 set for driver and responder cleaning vehicle	PPE appropriate for standard, contact, droplet & airborne precautions. Gloves - Specs: disposable (single-use) latex-free; appropriate sizes should be readily accessible--hypoallergenic gloves, glove liners, and powderless gloves should be available to those who need them. Large, long-sleeved, disposable gown, shoe coverings: Head covers or fluid repellent gowns/shoe covers may be needed for protection from gross contamination under certain emergency declarations (Ebola, C-Dif with watery diarrhea). Heavy-duty utility gloves for decontamination/disinfection. HazMat Level-C protection if specifically required by national emergency declaration (not needed for Covid-19)
		N95 respirators 3M; Technol, Moldex, or approved equivalent - must be fit tested or only acts like a surgical mask (replacement item only)
		Full-face shield (preferred) and/or: Protective eyewear - goggles or wrap-around safety glasses plus disposable surgical facemask and eye protection, including solid side shields.
IL	EMS + pt	Disposable (procedural/surgical) face masks
**	1 bottle	Hand washing agent: topical 60-95%_alcohol-based germicide or approved equivalent
**		CaviWipes1 XL (1 min wet dwell time preferred) or other approved disinfecting towelettes or sprays for intermediate-level disinfection of non-porous surfaces – see EPA List N: Disinfectants for Use Against SARS-CoV-2 <a href="https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2">https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2</a>

**	1 roll	Durable, waterproof, cloth/scrim-backed, tape (duct tape)
IL	2	Red impermeable biohazard-labeled isolation bags for contaminated linen (CDC Approved)
	OPT	UV Light equipment that has been FDA, EPA, and OSHA approved for disinfection of medical surfaces; DuoGuard (for mobile units) Zone 360. Upper room ultraviolet germicidal equipment for indoor spaces. Approved vendors: Aerapy, LLC; AeroClave LLC
<b>PATIENT LIFTING/CONVEYANCE DEVICES – Not required for Squads</b>		
** IL	1	<b>Primary patient litter</b> – Ferno Washington, Stryker, or approved equivalent. <i>Specs:</i> Multi-level, wheeled, at least 75" to 80" long, 22" wide; allows for head to be elevated upward to a 60° semi-sitting position; provided with crash-stable, quick release, 3 point fasteners; and 3 set of straps + over shoulder straps. Designed to ensure the frame or handle permits up to four persons to carry the litter, and is easy to move, load, clean, and disinfect. Three-point fastener for cot. Must fit securely in fastener. Bariatric stretchers are approved as optional.
** IL	1	Secondary patient litter - folding and/or collapsible stretcher with 3 sets of straps
**	Opt	Heavy-duty, vinyl-coated transfer sheet or sling with carrying handles or equivalent
** IL	1 OR	<b>Child/infant safety restraining device</b> meets federal motor vehicle standards (FMVSS) 213 & 302. IDPH memo issued 4-2-18 requires: <b>convertible car seat</b> (holds infant to 40 lb. child) OR both infant & child car seats; Child safety seat info: <a href="http://www.nhtsa.gov/portal/nhtsa_eou/info.jsp?type=all">http://www.nhtsa.gov/portal/nhtsa_eou/info.jsp?type=all</a> . NHTSA Recommendations Safe Transport Children in Ambulances <a href="http://www.nhtsa.gov/staticfiles/nti/pdf/811677.pdf">http://www.nhtsa.gov/staticfiles/nti/pdf/811677.pdf</a> <b>OR</b>
**	1	<b>Strongly encouraged:</b> Quantum <b>ACR-4</b> (Ambulance Child Restraint) system: fits newborns and children weighing 4lbs – 99lbs; Color-coded restraints in 4 sizes, Extra small 4-11 lbs, Small 11-26 lbs, Medium 22-55 lbs; Large 44-99 lbs. <a href="http://www.quantum-ems.com/p-62-ACR4-(Ambulance-Child-Restraint)-Q-ACR4.aspx">http://www.quantum-ems.com/p-62-ACR4-(Ambulance-Child-Restraint)-Q-ACR4.aspx</a> . System pricing: Henry Schein <b>OR</b> Ferno Pedi-mate #BB-6780, child 10-40 lbs (does not fit all stretchers) or Pedi-mate plus (child 10-100 lbs). If Pedi-mate will not secure newborn, must also carry infant car seat.
**	1 opt.	Ferno MedKids Pedi-Sleeve: immobilizes child 12-60 lbs. #BB-6770 or Pedi-Pac™ #IE-7800
**	Opt	Aegis Seatbelt of Maternity to transport newborn with mother (5 sizes + seatbelt attachment) QUANTUMEMS through Saplacor <a href="https://saplacor.com/">https://saplacor.com/</a>
**	Opt	Mangar CAMEL: Bariatric lifting device; Oak Pointe Medical
** IL	2	Pillow
IL	2 each	Linens: Pillow case, sheets, blankets for ambulance cot; appropriate for seasonal temperatures
<b>COMMUNICATIONS EQUIPMENT</b>		
ALS** IL	1	Portable UHF radio with charger (General Devices, APCOR or equivalent) with touch pad adaptor and UHF 4-channel capability (Med 1, 5, 6 and 8) or cellular phone (tested and working)
** IL	1	Permanently mounted mobile radio with VHF channel 340 or 400 depending on location (must maintain FCC license and provide copy for EMS plan)
<b>NON-PATIENT CARE ITEMS</b>		
** IL	2	Fire extinguishers - Specs: ABC dry chemical, min. 5 lb. unit with quick-release brackets. One mounted in driver compartment and one in patient compartment.
** IL	1	Flashlight – battery powered 6 volt - stand up lantern type
**	6	Flares or triangular reflectors; self-igniting, lasting for 30 minutes
**	2	No smoking signs
**	1	Wrench, 12" with adjustable open end
** IL	1	Wrecking bar, 24"
**	1 each	Screwdriver, 12" with regular blade and Phillips type
**	1	One of the following: Hammer, 3 lb. with 15" handle, OR fire axe, flat head
**	1	Goggles for eye safety - hard, impact resistant

**Mass Violence Bags – Issued per Region IX**

Item	Amount / Bag	The System also recommends the availability of body armor (Helmet and vests) for those agencies participating in RTF teams.
(Maxpedition) Bag	1	
Trauma Shears	1	Sharpie Markers 2 Rescue Blankets 4
28 Fr NPA	4	
Hyfin Chest Seal	4 (may carry more at agency's expense)	
Celox Bandage	2 (Prefer <i>CeloxRapid Z fold</i> )	Olaes Bandage 3
CAT II Tourniquet	4 (may carry TMT)	
*Decompression Needles	4 (strongly prefer minimum 10-12 g; 3" long needles) (Not issued for BLS bags)	
Lube	4	



**Safety/General Vehicle**

<input type="checkbox"/> Patient area is clean	<input type="checkbox"/> Siren and flood lights operational
<input type="checkbox"/> Equipment in patient area is secured/crash-stable	<input type="checkbox"/> Current IDOT safety inspection sticker on windshield
<input type="checkbox"/> Temp/environmental control standards met for meds	<input type="checkbox"/> No visually apparent issues would compromise safety of the pt, EMS personnel or the public
<input type="checkbox"/> Emergency warning lights operational	<input type="checkbox"/> Illinois Poison Center Number (In SOPs)
<input type="checkbox"/> IDPH Central Complaint Hotline number (must be posted where visible to patient)	

**Vendor Contact information:**

<b>Bound tree rep: Sam Vollrath</b> Southern WI/Northern IL Mobile: (608) 381-8172 <a href="mailto:Sam.Vollrath@Boundtree.com">Sam.Vollrath@Boundtree.com</a>	<b>Bill Cunningham: Penncare</b> 1317 North Road, Niles, Oh Phone: (800) 392-7233 X 135 <a href="mailto:bill@penncare.net">bill@penncare.net</a> Best price on Bolin chest seals, LifePak 15 ECG Paper
<b>Henry Schein EMS: Rep: Bill Beetschen</b> Cell: (847) 366-7989 (24/7) <a href="mailto:bill.beetschen@henryschein.com">bill.beetschen@henryschein.com</a>	<b>Combat Medical Systems: Gregoray Keyes</b> System pricing Celox and TMT tourniquet (855) 428.6074 or <a href="mailto:quotes@combatmedicalsyste.ms.com">quotes@combatmedicalsyste.ms.com</a>
<b>Zoll</b> Caroline Guibord Cell: (773) 425-0710 <a href="mailto:cguibord@zoll.com">cguibord@zoll.com</a>	<b>PhysioControl: Steven Schmidt</b> <b>Stryker Emergency Care</b> 3800 East Centre Avenue; Portage, MI 49002 C: (847) 636 0802 <a href="mailto:steven.schmidt@stryker.com">steven.schmidt@stryker.com</a>
<b>Tim Aebly</b> Account Executive <b>DRE Medical</b> T: (877) 321-8194 / <a href="http://dremed.com">dremed.com</a> An Avante Health Solutions Company Carries certified refurbished Zoll & PhysioControl monitors	<b>Lenita Y. Gipson</b> <b>Teleflex Sales Representative</b> , Illinois & Iowa M: (312) 914-9700; E: <a href="mailto:lenita.gipson@teleflex.com">lenita.gipson@teleflex.com</a> 3015 Carrington Mill Blvd, 6 Floor South Morrisville, NC 27560 P.O. Box 12600, Morrisville, NC 27560 Toll-free: 866-246-6990; <a href="http://www.Teleflex.com">www.Teleflex.com</a> (If difficulty contacting company – call Bill Beetschen)
<b>Mercury Medical: Stormy Grinnell</b> Territory Manager – Illinois and Iowa Cell – (630) 432.1466 <a href="http://www.mercurymed.com">www.mercurymed.com</a>	<b>Annette Uda: President &amp; Founder</b> Aerapy, LLC (UV light device) (630) 377-0348 x110; M: (630) 802-5244 <a href="http://www.Aerapy.com">www.Aerapy.com</a>
<b>AeroClave, LLC</b> 650 S. Capen Ave Winter Park, Florida 32789 Toll free: (800) 788-9119; Phone: (407) 788-3300 <a href="http://www.aeroclave.com">www.aeroclave.com</a>	<b>Eitan Group North America</b> Steve Severt; Regional Sales Manager <a href="mailto:Steve.severt@eitangroup.com">Steve.severt@eitangroup.com</a> Cell: (319) 621-6938 Phone: (877) 541-9944
<b>Quantum EMS Solutions</b> 3000 Marcus Ave, Suite #3E6, Lake Success, NY, 11042 T 516-321-9494 W <a href="http://www.quantum-ems.com">www.quantum-ems.com</a> E <a href="mailto:sales@quantum-ems.com">sales@quantum-ems.com</a>	<b>Paige Gruber</b> Territory Manager; <b>MDS - Vascular Access</b> E: <a href="mailto:paige.m.gruber@bd.com">paige.m.gruber@bd.com</a>   C: 708-912-7244

**NOTE:** UV equipment does not penetrate blood or visible contamination on any equipment. Meticulous cleaning and disinfecting of all surfaces in an EMS vehicle per National and System guidelines is needed before using UV products.