

CATEGORY	BASIC LIFE SUPPORT (BLS) All ages		ADVANCED LIFE SUPPORT (ALS) (All BLS equipment PLUS the following) All ages	
	Adult-specific	Pediatric-specific	Adult-specific	Pediatric-specific
Airway, Ventilation, and Oxygenation	<ul style="list-style-type: none"> Oxygen supply, portable and on-board Devices capable of delivering oxygen in a titratable manner through nasal, partial face, or full-face mask routes in sizes to fit neonates through adults Oropharyngeal airways in sizes to fit neonates to adults Nasopharyngeal airways in sizes to fit neonates to adults Manual and/or powered suction device(s) with rigid oral and flexible pharyngeal/tracheal suction catheters in sizes to fit neonates to adults A device capable of providing non-invasive positive pressure ventilation (NIPPV) Self-inflating manual ventilation devices and masks to fit neonates to adults [11] [12] 	<p>PEDIATRIC SPECIFIC</p> <ul style="list-style-type: none"> Bulb suction 	<ul style="list-style-type: none"> Direct and/or Video laryngoscopy equipment appropriate for neonates to adults^a Magill forceps Supraglottic airways in sizes to fit neonates to adults^b 	
Bleeding, Hemorrhage Control, Shock Management, and Wound Care	<ul style="list-style-type: none"> Commercial arterial tourniquets Wound packing material^c Gauze sponges Adhesive bandages Adhesive tape Occlusive dressing (aka “chest seal”) Fluid for irrigation of wounds 		<p>ADULT SPECIFIC</p> <ul style="list-style-type: none"> Chest Decompression needles 14g or larger diameter, minimum length 3.25 inches (8.25cm) or commercial chest decompression device [13] [14] [15] [16] [17] [18] [19] 	<p>PEDIATRIC SPECIFIC</p> <ul style="list-style-type: none"> Chest Decompression needles: <ul style="list-style-type: none"> 14g diameter, maximum length 1.5 inches (3.8 cm) for patients less than 56 inches (144 cm) long [20] 23g diameter, maximum length 0.75 inches (2cm) for newborns
Cardiovascular & Circulation Care	<ul style="list-style-type: none"> Automatic External Defibrillator (AED) with adult and pediatric or combination pads 		<ul style="list-style-type: none"> A device capable of performing automatic and/or manual defibrillation, cardiac rhythm monitoring (in at least three leads), 12 lead ECG acquisition, and transcutaneous pacing 	
Diagnostic Tools	<ul style="list-style-type: none"> Glucometer Pulse Oximeter with sensors to fit neonates to adults Stethoscope Blood Pressure Cuffs in sizes to fit neonates to adults Thermometer 		<ul style="list-style-type: none"> Continuous waveform capnography 	

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Infection Control	<ul style="list-style-type: none"> Items necessary for Universal & Standard Precautions [21] <ul style="list-style-type: none"> Waterless hand cleanser Sharps container Supplies for collection or absorption of patient vomit, urine, and/or feces Biohazardous materials collection bags Products appropriate for cleaning and disinfecting surfaces and equipment Items necessary for the following Transmission-based Precautions [22] [23] [24]: <ul style="list-style-type: none"> <u>Contact precautions</u>: examination gloves, eye protection, gowns <u>Droplet precautions</u>: surgical masks and eye protection <u>Airborne precautions</u>: N95 facemasks in provider-appropriate sizes AND eye protection OR Powered Air-Purifying Respirator (PAPR) General trash collection bags 		No additional ALS recommendations	
Medications	<ul style="list-style-type: none"> Medications that are germane to approved agency BLS protocols 		<ul style="list-style-type: none"> Medications that are germane to approved agency ALS (and/or higher level) protocols 	
Medication Delivery and Vascular Access	<ul style="list-style-type: none"> Devices and supplies needed to administer medications via routes (Oral, Inhaled, Intramuscular, Intranasal) included in locally approved scope of practice and locally applicable protocol(s) and in sizes to fit neonates to adults Supplies for application of antiseptic to skin 		<ul style="list-style-type: none"> Devices and supplies needed to administer medications via routes (Oral, Inhaled, Intramuscular, Intranasal, Intravenous, Intraosseous) included in locally approved scope of practice and locally applicable protocol(s) in sizes to fit neonates to adults Isotonic crystalloid fluids and administration tubing capable of adjustable fluid delivery rate A device to provide pressure infusion of IV fluids 	
	<p style="text-align: center;">PEDIATRIC SPECIFIC</p> <ul style="list-style-type: none"> Tools that provide pre-calculated weight-based dosing and preclude the need for calculation by EMS providers can reduce dosing errors. [25] 		<p style="text-align: center;">PEDIATRIC SPECIFIC</p> <ul style="list-style-type: none"> A device suitable for administering a fluid bolus to pediatric patients that limits risk for inadvertent over-administration of fluid 	

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Neonatal Care		<p>PEDIATRIC SPECIFIC</p> <p>Newborn delivery supplies:</p> <ul style="list-style-type: none"> • 2 umbilical cord clamps • Tool for cutting umbilical cord • Bulb suction • Infant head cover • Towels • Blanket • Gauze dressings • Material or device intended to maintain body temperature 		No additional ALS recommendations
Orthopedic Injury Care		<ul style="list-style-type: none"> • Splinting material or commercial devices for immobilization of orthopedic extremity injuries including but not limited to: <ul style="list-style-type: none"> • Femoral splinting materials which may include either simple non-traction devices or devices that provide femoral traction.^d [26] [27] • Pelvic splinting materials which may include either a commercial pelvic circumferential compression device (PCCD) designed specifically to splint the pelvis, or a dedicated bedsheet and towel clips to perform circumferential pelvic antishock sheeting [28] [29] [30] [31] [32] • Cold packs • Elastic bandages 		No additional ALS recommendations
Patient Packaging, Evacuation, and Transport		<ul style="list-style-type: none"> • Extrication board/device^e [33] • Materials or devices that can be utilized to provide spinal motion restriction of the cervical, thoracic, and lumbar spine for neonates to adults • Portable stretcher or litter • Collapsible “stair chair” • Wheeled multi-level gurney <p>PEDIATRIC SPECIFIC</p> <ul style="list-style-type: none"> • Pediatric-specific restraint system or age/size-appropriate car safety seat⁶ [34] [35] 		No additional ALS recommendations

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Safety	<ul style="list-style-type: none"> • Fire Extinguisher (5lb ABC) [36] • ANSI Class 2 or 3 reflective vest or outerwear [37] • Impact-resistant eye protection (ANSI Z87.1) [38] • Nonflammable reflective and/or illuminated roadside warning devices • Portable reusable light source 		No additional ALS recommendations	
Temperature Management and Heat-loss Prevention	<ul style="list-style-type: none"> • Blankets • Towels • Heat packs 		No additional ALS recommendations	
Miscellaneous items	<ul style="list-style-type: none"> • Bandage/trauma shears • A device that allows for two-way communication between the field and EMS communications/dispatch centers, direct medical control, and receiving hospitals • Triage Marking System (colored tape, tags, or other system) that is interoperable with other local healthcare system entities and that follows recommendations from the U.S. Dept of Health and Human Services Assistant Secretary for Preparedness and Response (ASPR) [39] 		No additional ALS recommendations	

Items that should no longer be carried on BLS or ALS ground ambulances due to evidence of harm or proven lack of clinical efficacy

- Military Antishock Trousers (MAST), aka Pneumatic Antishock Garment (PASG) [40]
- Syrup of Ipecac [41]

^aLaryngoscopy equipment is included to facilitate ALS provider identification and mechanical removal of upper airway foreign bodies using Magill forceps, regardless of whether the ALS agency includes pediatric or adult endotracheal intubation within their ALS provider scope of practice.

^bDepending on locally approved scope of practice and locally applicable protocol(s) other invasive airways (endotracheal tubes, needle or surgical cricothyrotomy supplies) may also be carried but are not recommended to be universally required on all ALS ground ambulances.

^cWound packing material may include plain gauze and/or hemostatic dressings.

^dTraction is not a necessary or required element of prehospital stabilization of suspected femur fracture(s) and is often contraindicated [26] [27].

^eDevices used for extrication, such as backboards, should not be used for transport. Whenever feasible, patients should be removed from extrication devices prior to transport. Spinal Motion Restriction can be maintained by securing the patient to the transport stretcher. [33].

^fRestraint devices should meet applicable crash-testing standards, as they are developed and published, and should appropriately meet individual patient weight, length, and developmental status needs [34] [35]