

APLS Equipment list 7e

Paperwork for faculty meeting		
All	Faculty should be given access ahead of the course to the documents listed below but the centre should have printed copies available in the faculty room	<input type="checkbox"/> Course director checklist <input type="checkbox"/> Instructor guide for 7e APLS <input type="checkbox"/> Global development indicators sheet <input type="checkbox"/> IC or recert instructor pack (1 per IC/recert) <input type="checkbox"/> The learning conversation (a few copies available)
All	In addition, these documents should be available in the simulation rooms	<input type="checkbox"/> Global development indicators sheet (1 per room) <input type="checkbox"/> Aide memoire <input type="checkbox"/> Relevant algorithms
Lecture equipment		
All	<input type="checkbox"/> Data projector and computer/laptop <input type="checkbox"/> Flipchart and pens	<input type="checkbox"/> Relevant PowerPoint presentations
Pre brief		
All	<input type="checkbox"/> Pre brief sheet for faculty – 2 per room	

ALSG recommends that all centres consider the diversity of their manikins and use a range of skin-coloured manikins on their courses. We also recommend that centres consider the use of adolescent/adult manikins for some of the simulations to aid realism. If time and skills allow, centres might wish to use moulage (makeup etc) in some simulations again to improve realism.

ALSG recommends that APLS centres use technology to aid realism by the use of a system for displaying patient observations that includes SpO₂/ETCO₂/BP as well as ECG e.g. using tablets with simulation monitoring such as Sim Mon.

There is now a simulation where candidates will need to defibrillate a baby manikin – this could be done with a shock block/absorber such as Laerdal ‘shocklink’.

It is assumed that the generic simulation equipment will be available in each room; the list below is of additional items that will either need to be available in the sim rooms or that the instructor teams will need to carry with them to the rooms when they are running specific simulations.

Generic simulation equipment – one set per simulation and sim demo room

Manikins and monitoring

- Junior manikin x 1 (intubatable)
- Baby manikin x 1 (intubatable)
- Adolescent/adult manikin (optional)
- Chest manikin to demonstrate/practice on
- Tracheostomy manikin for simulation (baby or child) – with spare trachy tube and tapes
- Monitor-defibrillator with paediatric/adult pads x 1
- Heartsim and interface x 1
- Electrodes and Paed Monitor Stickers
- ECG Leads
- Tablets with Sim Mon app (recommended)
- Gloves/aprons (if needed)

Airway

- Oropharyngeal airway sizes 000, 00, 0, 1, 2, 3.
- Nasopharyngeal airway (to fit manikins)
- Endotracheal tube introducers x 2
- Endotracheal tube fixation material
- Endotracheal Tubes 2.5 uncuffed, 3-7.5(un)cuffed (in 0.5mm steps);
- End tidal CO₂ monitor
- Laryngoscope: adult curved blade
- Laryngoscope: straight paed blades (0 & 1)
- Paediatric Magill Forceps
- Yankauer Sucker (small and large)
- Soft Suction Catheters (6,8,10)
- Oxygen Masks with reservoir (paed and adult)
- O₂ tubing
- Bag-valve-mask: 500ml (paed); 1000/1600ml (adult)
- Face Masks circular or anatomical 0/1,1,2,3,4
- Catheter mounts
- Bougee
- Stylets
- Laryngeal mask airway or i-Gel sizes (infant-adult)
- Lubricant for manikin
- Nasal prongs (infant or child)
- Nebuliser pot
- 3 Way Tap
- Y Connector
- Capnometry
- Intubatable infant & junior manikins or heads

- x 2
 - 24g cannulae x 12
 - Small BP scalpel handles x 2
 - Scalpel blades Size 11 (box) x 1
 - Tracheostomy tubes 4, 5 & 6 x 1
- In addition to the one available in the simulation equipment, a second of each of the following where x 2 are required:
- Laryngoscope handles x 2
 - Adult curved blade x 2
 - Paediatric straight blade x 2
 - Nasopharyngeal airways (infant – adult) x 2
 - Oropharyngeal airways - (infant - adult) x 2
 - Oxygen masks with reservoir x 2 (child)
 - Oxygen Tubing x 2
 - Paediatric Magills
 - Paediatric yankauer suckers x 2
 - Pocket mask adult x 2
 - Pocket mask child x 2
 - Self-inflating bags with reservoir and oxygen tubing: 500 ml x 2; 1500 ml x 2
 - Soft suction catheters x 2
 - Stethoscopes x 2

Circulation

- Intravenous cannula 14-25g
- EZ-IO drills (or BIG) with paed & adult needles
- Intravenous giving sets/IV fluid bags
- Syringes: 1ml x 2, 2ml x 4, 5ml x 4, 10ml x 4, 20ml x 2, 50ml x 2
- Detrostix or BM stix bottle
- Temperature probe
- SpO₂ probe (s)
- Blanket
- Nasogastric Tube(s)
- Pen torch
- Tape
- Bandage and splint
- Stethoscope
- BP Cuffs (small and large)
- Sharps Bin

LAMINATES/POSTERS:

- APLS aide memoire
- see website for algorithms

Illness simulation additional items		
Illness demo		
Illness 1	<input type="checkbox"/> Oral airways <input type="checkbox"/> Nasopharyngeal airways to fit manikin <input type="checkbox"/> Bag valve mask to fit manikins	LAMINATES/POSTERS: Coma
Illness 2		LAMINATES/POSTERS: Status epilepticus protocol Red flags in child with seizures Emergency Induction checklist
Illness 3	<input type="checkbox"/> EZ-IO Driver (or other IO access device), needle sets and bones [Humerus and tibia] x 2 <input type="checkbox"/> EZ-Connect extension tubing <input type="checkbox"/> Pressure bag Please note that the bones provided with the trainer can be used for the demonstration and then Crunchie bars wrapped in Elastoplast and frozen can be used to aid multiple candidate practice.	LAMINATES/POSTERS: Sepsis 6
Illness 4		LAMINATES/POSTERS: DKA POCUS
Illness 5	<input type="checkbox"/> Supraglottic devices (LMA/i-gel) <input type="checkbox"/> ETT for manikin	LAMINATES/POSTERS: Failed intubation DOPES algorithm
Illness 6	<input type="checkbox"/> Nebuliser pot	LAMINATES/POSTERS: Anaphylaxis

Trauma simulation additional items		
Trauma demo	<input type="checkbox"/> Scoop stretcher <input type="checkbox"/> Box/leg splint <input type="checkbox"/> Pelvic binder <input type="checkbox"/> Head blocks and tape <input type="checkbox"/> Chest manikin for chest drain <input type="checkbox"/> Small BP Scalpel Handle <input type="checkbox"/> Scalpel blades Size 11 <input type="checkbox"/> Scissors and Curved Haemostats <input type="checkbox"/> Clamps <input type="checkbox"/> Large Hard Suture needles <input type="checkbox"/> IV cannulae 18g <input type="checkbox"/> Chest drains 24g <input type="checkbox"/> Underwater seal x2 <input type="checkbox"/> Large waterproof tray <input type="checkbox"/> 3-way tap <input type="checkbox"/> Seldinger chest drain kit <input type="checkbox"/> Gloves (and apron optional)	LAMINATES/POSTERS: P-TRAUMATIC Massive haemorrhage in trauma Blood and fluid therapy in uncontrolled haemorrhage after trauma
Trauma 1	<input type="checkbox"/> Cervical collars (for show) <input type="checkbox"/> Head blocks and tape	LAMINATES/POSTERS: P-TRAUMATIC Emergency Induction checklist
Trauma 2	<input type="checkbox"/> Box/leg splint <input type="checkbox"/> Tourniquet <input type="checkbox"/> Kendrick splints <input type="checkbox"/> Triangular bandages	LAMINATES/POSTERS: P-TRAUMATIC Massive haemorrhage in trauma Blood and fluid therapy in uncontrolled haemorrhage after trauma Laminated colour photo of Kendrick splint in situ (optional – see notes in skill station)
Trauma 3	<input type="checkbox"/> Chest manikin for chest drain <input type="checkbox"/> Small BP Scalpel Handle <input type="checkbox"/> Scalpel blades Size 11 <input type="checkbox"/> Scissors <input type="checkbox"/> Curved Haemostats <input type="checkbox"/> Clamps <input type="checkbox"/> Large Hard Suture needles <input type="checkbox"/> IV cannulae 18g <input type="checkbox"/> Chest drains 24g <input type="checkbox"/> Underwater seal x2 <input type="checkbox"/> Large waterproof tray <input type="checkbox"/> 3-way tap <input type="checkbox"/> Seldinger chest drain kit <input type="checkbox"/> Gloves (and apron optional)	LAMINATES/POSTERS: P-TRAUMATIC Massive haemorrhage protocol Blood and fluid therapy in uncontrolled haemorrhage after trauma
Trauma 4		LAMINATES/POSTERS: P-TRAUMATIC Massive haemorrhage protocol
Trauma 5	<input type="checkbox"/> Pelvic binders (various make/sizes) <input type="checkbox"/> Large BP cuff	LAMINATES/POSTERS: P-TRAUMATIC Massive haemorrhage protocol Blood and fluid therapy in uncontrolled haemorrhage after trauma
Trauma 6	<input type="checkbox"/> Cervical collars (for show) <input type="checkbox"/> Head blocks and tape	LAMINATES/POSTERS: P-TRAUMATIC Spinal dermatomes Spinal imaging and referral

Cardiac simulation additional items		
Cardiac demo	<input type="checkbox"/> BLS manikin – child <input type="checkbox"/> Monitor-defibrillator with paediatric/adult pads x 1 <input type="checkbox"/> Heartsim and interface x 1 <input type="checkbox"/> Electrodes and Paed Monitor Stickers <input type="checkbox"/> ECG Leads	LAMINATES/POSTERS: Hyperkalaemia Cardiac arrest Expanded cardiac arrest VF and pulseless VT
Cardiac 1	<input type="checkbox"/> BLS manikin – child <input type="checkbox"/> Equipment for Defibrillation	LAMINATES/POSTERS: Cardiac arrest Expanded cardiac arrest VF and pulseless VT Hypothermia
Cardiac 2	<input type="checkbox"/> BLS manikin - child	LAMINATES/POSTERS: Cardiac arrest Expanded cardiac arrest Asystole and PEA FBAO/choking
Cardiac 3	<input type="checkbox"/> BLS manikin – child <input type="checkbox"/> Equipment for Defibrillation	LAMINATES/POSTERS: Cardiac arrest Expanded cardiac arrest VF and pulseless VT
Cardiac 4	Tracheostomy baby manikin for simulation <input type="checkbox"/> Other tracheostomies e.g. cuffed Emergency tracheostomy box containing: <input type="checkbox"/> introducer, <input type="checkbox"/> spare tracheostomy tube (same size), <input type="checkbox"/> one size smaller tracheostomy tube, <input type="checkbox"/> suction catheters, <input type="checkbox"/> tapes, <input type="checkbox"/> scissors <input type="checkbox"/> lubricant jelly <input type="checkbox"/> tracheal dilator should be available	LAMINATES/POSTERS: DOPES information NTSP tracheostomy emergency management Cardiac arrest Expanded cardiac arrest Asystole and PEA
Cardiac 5	<input type="checkbox"/> BLS manikin – infant <input type="checkbox"/> Equipment for Defibrillation – centres may need to use a system to ‘block the shock’ such as Laerdal ‘shocklink’	LAMINATES/POSTERS: Cardiac arrest Expanded cardiac arrest Supraventricular tachycardia
Cardiac 6	<input type="checkbox"/> BLS manikin - infant	LAMINATES/POSTERS: Cardiac arrest Expanded cardiac arrest Asystole and PEA Sepsis 6

Final simulation additional items		
Final 1	<input type="checkbox"/> Nebuliser	LAMINATES/POSTERS: Asthma Cardiac arrest Expanded cardiac arrest Asystole and PEA
Final 2		LAMINATES/POSTERS: Coma Sepsis 6
Final 3	<input type="checkbox"/> Chest manikin for chest drain <input type="checkbox"/> Small BP Scalpel Handle <input type="checkbox"/> Scalpel blades Size 11 <input type="checkbox"/> Scissors <input type="checkbox"/> Curved Haemostats <input type="checkbox"/> Clamps <input type="checkbox"/> Large Hard Suture needles <input type="checkbox"/> IV cannulae 18g <input type="checkbox"/> Chest drains 24g <input type="checkbox"/> Underwater seal x2 <input type="checkbox"/> Large waterproof tray <input type="checkbox"/> 3-way tap <input type="checkbox"/> Seldinger chest drain kit <input type="checkbox"/> Gloves (and apron optional)	LAMINATES/POSTERS: P-TRAUMATIC Massive haemorrhage protocol Blood and fluid therapy in uncontrolled haemorrhage after trauma
Final 4		LAMINATES/POSTERS: Cardiac arrest Expanded cardiac arrest Asystole and PEA
Final 5		LAMINATES/POSTERS: Cardiac arrest Expanded cardiac arrest Asystole and PEA
Final 6		LAMINATES/POSTERS: P-TRAUMATIC Burns Body surface area in burns Cardiac arrest Expanded cardiac arrest Asystole and PEA