

APLS: Defibrillation Updated July 2020

Testing Objectives

- To ensure that the candidate can safely and appropriately perform defibrillation on a child.

Equipment

Resusci junior x no of testing stations

ALSi rhythm simulator with paediatric pads (as appropriate) x no of testing stations

Syringes x 2

Environment

Set up the station so that it is easily accessible from all directions. If more than one station is set up in the same room, arrange this so that they do not interfere with each other.

Standards

Testing is carried out according to the testing sheets shown below. All to be demonstrated to a satisfactory standard and in accordance with APLS teaching.

Procedure

Give standard introduction to candidate. All points are to be achieved in the correct order.

If the candidate passes, the instructor keeps the sheet.

If the candidate requires a retest, document reasons and hand the sheet to candidate.

Instructor Notes

The candidate should ensure that chest compressions and ventilations continue at all times except when the shock is being delivered. Pauses for checking ROSC, rhythm, and delivery of shock must be no longer than 10 seconds. The candidate should demonstrate safe defibrillation.

After the second shock, adrenaline is given – this may be initiated by the instructor acting as an assistant, or the candidate, and failure to initiate would not cause a candidate to fail this testing station.

The concern is free flowing oxygen during charging and delivering a shock. An ET tube in situ is considered a closed system and oxygen can remain connected.

Explain that this is a Covid negative patient to simplify resuscitation and the other instructor (colleague) can perform effective CPR alone.

ROSC – is indicated by normal breaths, cough in response to resuscitation breaths or presence of a central pulse.

APLS: Defibrillation - Testing Sheet July 2020

Candidate Name & No:

Introduction: "Your colleague is performing effective CPR (ECC and ventilation) on a 25 kg child who has an intravenous cannula. Please take appropriate action.

	Achieved	Retest Achieved	D2/D3 Achieved
Ensures CPR is continued	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Applies electrode pads in correct position	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Selects energy 100J (4 J/kg)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advises plan for charging			
Remove free flowing oxygen, " compressions continue & everyone else clear ":	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Charge defibrillator " hands off "- rhythm check, diagnoses VF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
" stand clear " and ensures rescuers are clear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delivers shock and ensures CPR recommenced immediately	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continues CPR for 2 minutes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advises plan for charging towards the end of the 2 min cycle			
Remove free flowing oxygen, " compressions continue & everyone else clear ":	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Charge defibrillator " hands off "- rhythm check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
" stand clear " and ensures rescuers are clear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delivers shock and ensures CPR recommences immediately Adrenaline 2.5ml of 1:10 000 (10 micrograms/kg this may be initiated by candidate or instructor in testing)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advises plan for charging towards the end of the 2 min cycle			
Remove free flowing oxygen, " compressions continue & everyone else clear "	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Charge defibrillator. " hands off "- rhythm check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Briefly pauses CPR to assess rhythm, sinus rhythm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Disarm defibrillator and seek evidence for ROSC ROSC is indicated by presence of a central pulse and signs of life and end-tidal CO2 if available	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Ensure that chest compressions and ventilations continue at all times except when the shock is being delivered. Pauses for checking ROSC, rhythm, and delivery of shock must be no longer than 10 seconds. The candidate should demonstrate safe defibrillation.

Notes:

Please Circle

PASS RE-TEST

RE-TEST : PASS FAIL

Signed _____