PLS: Defibrillation – Testing sheet

**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

Candidate Name & No:

Introduction: “Your colleague is performing effective CPR on a 25 kg child who has an intravenous cannula. Please take appropriate action.”

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