

SAQ 4

You receive a Priority 1 call from the ambulance service. A 5 yr old boy is on route by ambulance post drowning in family home pool. ETA is 10 min.

a. What factors indicate a poor prognosis in this scenario ? (4 Marks)

1 Mark for each up to 4 marks from:

- Submersion > 5mins
- No CPR for >10 mins
- Coma on arrival
- pH <7.1
- Pupils fixed & dilated
- Time to first breath >30mins
- Coma / cardiac arrest at scene
- GCS 3

Prognostic scores

Orlowski Scale - <3 factors = 90% chance recovers >3 factors = 5% recovery

- Age <3
- Submersion > 5mins
- No CPR for >10 mins
- Coma on arrival
- pH <7.1

Conn + Modell - 2 hours post immersion conscious level

Category	GCS	Neuro intact survival (%)
A = alert	≥ 14	100
B = blunted	8-13	100
C = comatose	< 8	>90
C1 = flexion	5	>90
C2 = extension	4	>90
C3 = flaccid	3	<20

b. Outline your preparation for the patient's arrival (6 Marks)

1/2 Mark for each of below up to 6 marks

Department

- *Ensure adequate staffing / supervision rest of dept*

Area

- *Paediatric appropriate resuscitation bay*

Staff

- *Resuscitation team*
- *Paediatric / Anaesthetic assistance*
- *Nurse for family*
- *Staff for CPR - if hypothermic prolonged arrest scenario*

Weight Estimation

- *Age x 2 + 8 or 18 kg*

Equipment

- *Age appropriate airway - ETT sizes 4.5 / 5 / 5.5 and laryngoscope*
- *IV access if arrested IO 1st line*
- *Rewarming - towels to dry patient, warm blankets/ fluids, Bair hugger*

Drugs

- *Adrenaline 0.1ml/kg 1:10000*
- *Fluid 20 ml/kg bolus*
- *Glucose 10% dextrose 2mls/kg*
- *4J/kg shock*