Anaphylaxis during Anaesthesia

Immediate Management

Paediatric 0-12

ANZAAG Australian & New Zealand Anaesthetic Allergy Group

ANZCA Australian and New Zealand College of Anaesthetists

IF Paediatric CARDIAC ARREST
Pulseless Electrical Activity, PEA

- ALS GUIDELINES for non-shockable rhythms
- **0.1 mL/kg of 1:10,000 (10 mcg/kg) I.V. Adrenaline**
- Repeat 1-4 minutely prn
- Immediately start **CPR. 20 mL/kg Crystalloid**

DR — **Danger and Diagnosis**
Response to stimulus

- Unresponsive hypotension or bronchospasm
- Remove triggers e.g. chlorhexidine, synthetic colloid
- Stop procedure. Use minimal volatile if GA

S — **Send for help and organise team**

- Call for Help and Anaphylaxis box
- Assign a designated Leader and Scribe
- Assign a Reader of this card

AB — **Check/Secure Airway**
Breathing - 100% oxygen

- Intubate early: airway oedema
  CVS/Respiratory compromise
- Confirm FiO_2 100%

C — **Rapid fluid bolus**
Plan for large volume resuscitation

- If hypotensive: Elevate legs
- Bolus **20 mL/kg Crystalloid**, Repeat as needed
- Large bore I.V. Access. Warm I.V. fluids if possible

D — **Adrenaline Bolus**
Repeat as needed
Prepare Infusion

I.M. Adrenaline (Paediatric)

No I.V. access or haemodynamic monitoring
OR awaiting Adrenaline Infusion

1:1000 1mg/mL lateral thigh
< 6 years = 0.15 mL (150 mcg)
6-12 years = 0.3 mL (300 mcg)
Every 5 minutes prn

Initial I.V. Adrenaline Bolus (Paediatric)

Dilution 1 mg in 50 mL = 20 mcg/mL

- Give dose below every 1-2 minutes prn
- Increase dose if unresponsive

Moderate (Grade 2)	Life Threatening (Grade 3)
0.1 mL/kg 2 mcg/kg	**0.2-0.5 mL/kg** 4-10 mcg/kg

Paediatric Adrenaline Infusion
Commence infusion as soon as possible
Can be administered peripherally

1 mg Adrenaline in 50 mL (20 mcg/mL)
Commence at 0.3 mL/kg/hr (0.1 mcg/kg/min)
Titrate to max. 6 mL/kg/hr (2 mcg/kg/min)

IF NOT RESPONDING see 'Paediatric Refractory Management'

Appendix 2 ANZAAG-ANZCA Perioperative Anaphylaxis Management Guidelines version 2 May 2016. The scientific rationale and evidence base for the recommendations on this card is explained in more detail at www.anzca.edu.au and www.anzaag.com