Emergency drugs etc for child of age: 4years Expected Wt around: 15 Kg

Acceptable Systolic BP	70-120	mmhg
Acceptable Heart Rate	85-150	bpm
Acceptable Respiratory Rate	20-40	bpm

Read important instructions on page 3

Adrenaline dose	1.5	mls of 1:10,000.
Fluid bolus	300	mls of normal saline
Glucose / Dextrose (25%)	14	mls
DC Shock	70	Joules

ET tube size	5.0	internal diameter (use 0.5 smaller if cuffed tube)
ET tube length	14 / 17	cm to lip / nose

Ketamine	15	mg (Intubation Dose – 1mg/kg) May be repeated.
Atropine	0.3	mg (Intubation Dose – 0.02mg/kg)
Diazepam	3	mg (0.2mg/kg) Beware respiratory depression
Propofol	35 – 55	mg (dose varies with age). Beware cardiovascular depression. Titrate dose
Thiopentone	35 – 70	mg (2.5-5.0mg/kg) Beware cardiovascular depression. Titrate dose
Suxamethonium	30	mg (dose varies with age)
Pancuronium	1.5	mg (0.1mg/kg)
Vecuronum	1.5	mg (0.1mg/kg)
Fentanyl	30	mcg (2mcgkg) Beware respiratory depression. Titrate dose
Morphine	1.5	mg (0.1mg/kg) Beware respiratory depression. Titrate dose
Midazolam	1.5	mg (0.1mg/kg) Beware respiratory depression.
Benzylpenicillin	750	mg (50mg/kg)
Cefotaxime	750	mg (50mg/kg)
Mannitol	4	g (0.25g /kg) = 32mls of 12.5%, or 20mls of 20%

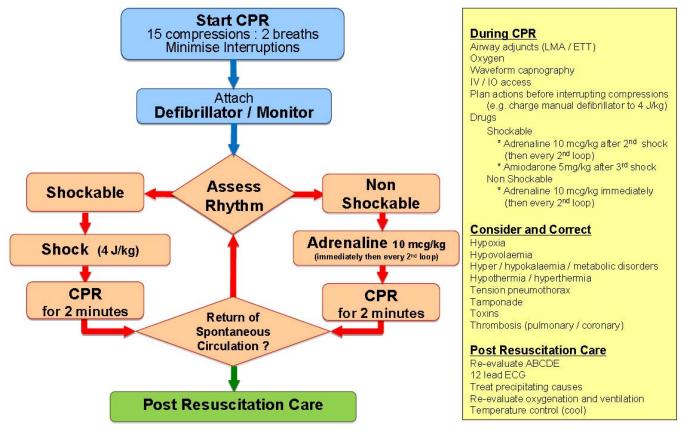
Dopamine or Dobutamine:

To make an infusion where 1ml/hr = 5mcg/kg/min add 225mg of the drug to 50mls of Normal Saline.



Advanced Life Support for Infants and Children





December 2010

For child of age: 4years Expected Wt around: 15 Kg

Shock 70 Joules

Adrenaline 1.5 mls of 1:10,000.

Fluid Bolus 300 mls of normal saline

Important

This tool is designed to be a readily available guide to endotracheal tube sizes and positions, and to doses of drugs and other therapies.

It is not a recipe book - it is important that you think carefully if "standard" doses of drugs are appropriate for any individual patient, especially acutely unstable ones.

For systolic blood pressure, heart and respiratory rate – look at trends as well as absolute numbers. HR and RR ranges are from rounded 5th centile in Bonafide CP, Brady PW, Keren R, Conway PH, Marsolo K, Daymont C. (2013). Development of heart and respiratory rate percentile curves for hospitalized children. Pediatrics, 131 (4), e1150-e1157).

Do not just blindly follow the doses given here - think first.

Information presented here comes from several sources, particularly Drug Doses by Frank Shann. The algorithm comes from the Australian Resuscitation Council http://www.resus.org.au

Doses have been rounded where sensible to do so, and minimum and maximum doses applied to some drugs.

Doses may need to be modified if drugs are used in combination.

DC shock energy has been rounded to figures commonly found on defibrillators. 4j/kg

For Morphine, Fentanyl, Thiopentone and Propofol it is important to titrate the dose for its desired effect. Be very cautious of hypotension in sick children and respiratory depression if not ventilated. Be careful in patients with haemodynamic compromise - cardiac failure, pulmonary hypertension, septic shock. Correct hypovolaemia first. Have vasopressors available (eg metaraminol 5-10 mcg/kg). Be careful of propofol in infants <1 year of age dosing is more complex.

Propofol is based on approximately: 1-5yo: 2.5-3.5mg/kg, 5-10yo: 2-3 mg/kg, >10: 1.5-2.5 mg/kg

Suxamethonium is based on 3mg/kg for newborn, 2mg/kg child, 1mg/kg adult.

I've done my best to ensure this information is accurate and cross checked doses with other experts but it is your responsibility to verify doses etc before using this tool.

Comments and suggestions welcome

Mike.south@rch.org.au

Mike

Prof Mike South, Director, Department of General Medicine, Specialist in Intensive Care, Professor, University of Melbourne, Royal Children's Hospital, Parkville, Victoria 3052, Australia