

# Paediatric formulae

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## WETFLAGS

<b>Weight</b> (Luscombe & Owens 2007)	0-12m = (age/2)+4    1-5y = (age x 2)+8    6-12y = (age x 3)+7
<b>Energy</b>	4J/kg
<b>Tube</b>	uncuffed = age/4+4    cuffed = age/4+3.5    infant 3mm    1-2y 3.5mm oral length = age/2+12    nasal length age/2+15
<b>Lorazepam</b>	0.1mg/kg
<b>Fluids</b>	20ml/kg (trauma 10ml/kg aliquots)
<b>Adrenalin</b>	0.1ml/kg 1:10,000    10µg/kg (100µg/kg in β-blocker od)
<b>Glucose</b>	2ml/kg 10%
<b>Sodium Bicarbonate</b>	1ml/kg 8.4%

5 rescue breaths - 15:2 - 100-120 per min

Bag sizes 250ml, 500ml, 1500ml

Needle insufflation 18G / 14G / 12G    1sec : 4sec    O<sub>2</sub> initially age l/min reduced to 2l/min

Adrenalin anaphylaxis 10µg/kg im    <6y 150µg / 6-12y 300µg / >12y 500µg

Bicarbonate 1mmol/kg

Amiodarone 5mg/kg after 3rd and 5th DC

Ca gluconate 10% 0.3ml/kg

## Maintenance Fluids

Holliday-Segar formula 100ml/kg/day first 10kg, 50ml/kg/day second 10kg, 20ml/kg/day over 20kg

Or 4 ml/kg/h + 2 ml/kg/h + 1 ml/kg/h

Losses: urine 30ml/kg/d, stool 0-10ml/kg/d, insensible 10-30ml/kg/d

## Cerebral oedema

Mannitol 250-500mg/kg (1.25-2.5ml/kg 20%)

3% saline 3ml/kg

Dexamethasone 0.5mg/kg bd

## Asthma

Salbutamol 15µg/kg bolus (5µg/kg <2y) infusion 1-5µg/kg/min

Aminophylline 5mg/kg 20min then 1mg/kg/h

MgSO<sub>4</sub> 25-40mg/kg (max 2g) 20min

Adrenalin neb 400µg/kg (0.4ml/kg 1:1000)

Saline 3% neb for bronchiolitis (NG9 says don't use)

Normal BP 50<sup>th</sup> centile BP = 85 + (age x 2)

Normal BP 5<sup>th</sup> centile BP = 65 + (age x 2)

In sepsis aim for BP=90 + (age x 2)

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International Liaison Committee on Resuscitation ([ILCOR](#)) 2010