

1mcg/kg/min = 4.2mg/70kg/h

Acyclovir 250mg, 500mg powder

5-10mg/kg ideal weight iv

Adenosine 6mg/2ml

6mg, 12mg, 12mg (ALS)
100 / 200mcg/kg (APALS)

Adrenaline 1:1000 1mg/1ml 5mg/5ml

10mcg/kg cardiac arrest
0.1-1.0mcg/kg/min (0.4-4.2mg/h/70kg)
Single strength 4mg/50ml 5% Dex 5-50ml/h
Neb (croup/anaphylaxis/asthma) 400mcg/kg

Alfentanil 1mg/2ml

30-50mcg/kg (500mcg)

Aminophylline 250mg/10ml

5mg/kg in 20min then 0.5-1mg/kg/h

Amiodarone 150mg/3ml

300mg (5mg/kg) stat then to 1.2g over 24h

Alteplase rt-PA 50mg

MI 15mg stat + 50mg 30min + 35mg 60min
PE 10mg stat + 90mg 1h
Stroke 0.9mg/kg (max 90mg) 10% stat then 90% 1h

Atenolol

5-10mg at 1mg/min ISIS-1

Atracurium 50mg/5ml

0.5mg/kg lasts 30min then 0.5mg/kg/h

Atropine 600mcg/ml

20mcg/kg (APLS)

Bicarbonate 8.4% 50mEq/50ml, 1.26% isotonic

1 mmol/kg or half BE/3 mmol/kg
500ml 1.26% 63mmol

Bupivacaine

Max 2mg/kg, 30min to full action. Duration 2-3h.

Calcium

10ml chloride (10%) = 6.8mmol 0.2ml/kg 5min
10ml gluconate (10%) = 2.25mmol 0.5ml/kg 5min

Cefotaxime / Ceftriaxone

2g or 50mg/kg (80mg/kg severe sepsis)

Chlorphenamine 10mg/1ml

250mcg/kg (10-20mg) iv stat, 0.4mg/kg/d/3 po

Codeine / Dihydrocodeine

2mg/kg/d/4

Dantrolene

2-3mg/kg 10 min

Defibrillation

Arrest/AF 150J (4J/kg) biphasic
VT 150J (1J/kg, 2J/kg) synchronised biphasic
SVT/flutter 100J (1J/kg, 2J/kg, 2J/kg) synchronised biphasic

Dexamethasone 6.6mg/2ml = 8mg/2ml

Asthma 0.3mg/kg po single dose
Cauda Equina (metastatic) 16mg
Cerebral oedema 0.5mg/kg po bd
Covid 6mg od 10 days
Croup 0.15mg/kg stat po/iv repeat 12h
Meningitis after LP result 0.15mg/kg qds
6.6 mg sodium phosphate = 8 mg phosphate

Dexmedetomidine sedative α_2 -agonist

1 μ g/kg over 10 min +/- 0.5 μ g/kg/h

Diamorphine

100mcg/kg iv/in stat
1-6months 25mcg/kg iv stat

Diazepam 10mg/2ml

various

Digoxin 500mcg/2ml

Child 30mcg/kg/d/3 loading
Adult 15mcg/kg/d/3 loading
250mcg iv (5min) every 2h up to 1-1.5mg

Diltiazem

0.25mg/kg iv

Disopyramide 50mg/5ml

2mg/kg iv in 20min, repeat after 1h then 400mcg/kg/h

Dobutamine 250mg/20ml

5-20mcg/kg/min
15mg/kg in 50ml, 1-4ml/h (=5-20mcg/kg/min)

Dopamine 200mg/5ml

5-20mcg/kg/min
15mg/kg in 50ml, 1-4ml/h (=5-20mcg/kg/min)

Doxapram

1-1.5mg/kg then 1.5-4mg/min

Ephedrine 30mg/10ml

1ml (3mg) aliquots

Esmolol

500mcg/kg in 1 min then 50mcg/kg/min
Half-life 8 min

Etomidate 20mg/10ml

0.3mg/kg iv induction

Fentanyl 100mcg/2ml

0.5-3mcg/kg (50-200mcg) iv stat
1.5mcg/kg in

Flecainide 150mg/15ml

2mg/kg in 250ml 5% Dex over 10min (max 150mg)
Pill in pocket 300mg stat

Fluid & FFP

10-20ml/kg iv bolus

Flumazenil 500mcg/5ml

200mcg + 100mcg every minute up to 1mg
10mcg/kg

Furosemide 20mg/2ml

0.5-1mg/kg (20-120mg) iv stat

Gentamicin

7mg/kg iv loading, 1mg/kg tds

Glucagon

1mg im/iv
Beta-blocker od 5-10mg iv then 4mg/h

Glucose

2ml/kg 10% then 5ml/kg/h 10% Dex + 0.45% saline
50ml 50% / 10iu Actrapid stat lowers K by 1 mmol/l in 15min
5ml/kg 10% + insulin 0.05 u/kg/h iv

Glycopyrrolate 200mcg/1ml, 300mcg/3ml

100mcg (4mcg/kg) every 2-3min

GTN / ISDN 50mg/50ml

12-30mcg/kg/h, 0.6-12mg/h

Heminevrin 0.8%

40-100ml 5min then 0.5-1ml/min

Hydralazine

0.1-0.5 mg/kg iv in 10min (5-10mg)
then 50-300mcg/min (BNF)

Hydrocortisone

5mg/kg iv stat + 2-4mg/kg 6 hourly

Hydroxycobalamin

5g (70mg/kg) over 15 min

Hypertonic saline

3ml/kg / 150ml 3% (peripheral) or 75ml 7.5% (central) or 30ml 23% (central)
1ml/kg 3% increases plasma Na by 1mmol/l, eg use 100ml/h for 4h

Ibuprofen

100mg/5ml 20-40mg/kg/d/4

Intralipid 20%

1.5ml/kg over 1 min

Ipratropium

Neb <1y 100mcg; 1-7y 250mcg; >7y 500mcg

Isoprenaline 2.25mg/2ml

2.25mg in 500ml 5% Dex at 0.5-10mcg/min (6.7-133ml/h)

Ketamine 1% 200mg/20ml, 10% 1000mg/10ml

Sedation 0.5-1mg/kg iv

5mg/kg po/pr/nasal/im
 Intranasal analgesia 0.25-1mg/kg
 Asthma 0.5-2mg/kg then 0.5-2mg/kg/h

Ketorolac 10mg/1ml, 30mg/1ml
 10mg qds po, 10-30mg tds iv

Labetalol 5mg/ml
 50mg repeated after 5min then 0.125-2mg/min (10-160mg/h)
 250-500mcg/kg then 30mcg/kg/min (0.5-2mg/min)

Levetiracetam
 40mg/kg (max 3g) iv / io over 5 min

Lignocaine 1% 100mg/10ml
 1mg/kg (100mg), repeat every 5min to 3mg/kg loading
 20-50mcg/kg/min (2-4mg/min)
 Max 3mg/kg. With adrenaline 6mg/kg

Lorazepam 4mg/1ml
 100mcg/kg iv/pr or 4mg iv

Magnesium Sulphate 50% 1g/2ml or 5g/10ml, 1g=4mmol
 Asthma / torsades 40mg/kg (max 2g/8mmol) in 15 min
 Neb 150mg MgSO4 50% (0.3ml)
 Pre-eclampsia 4g (40ml 10%) then 1g per hour

Mannitol 20% 1g/5ml
 0.25-0.5-1g/kg over 15min (1.25-2.5ml/kg) every 2h

Methylprednisolone
 2mg/kg / 125mg iv stat then 30-60mg iv qds
 Pulse therapy 15mg/kg/day 3 days

Metoclopramide 10mg/10ml
 300mcg/kg/d/3 stat iv/im/po

Metoprolol
 5mg (1mg/min) repeated up to 15mg (BNF / MIAMI)

Metaraminol 1%, 10mg/1ml
 10mg in 20ml saline 1-5mg/h (2-10ml/h)
 0.5mg-1mg aliquots

Midazolam 1mg/ml, 2mg/ml, 5mg/ml
 Sedation 100mcg/kg iv then 100mcg/kg/h
 Status 0.2mg/kg iv/im
 0.5mg/kg buccal / in / po / pr

Milrinone
 Type 3 phosphodiesterase inhibitor inotrope and vasodilator

Morphine
 0.1-0.2mg/kg iv (<1y 80mcg/kg)
 Oral <1y 80mcg/kg, >1y 200-500mcg/kg

NAC 20% 2000mg/10ml
 Oral: 140 mg/kg 5% NAC then 70 mg/kg 5% NAC 4 hourly

Nalbuphine 10mg/1ml, 20mg/1ml
 10-20mg (300mcg/kg) 3-6hly

Naloxone 400mcg/1ml
 10mcg/kg iv stat. 0.4-2mg
 60mcg/kg (200mcg) im at birth

Nitroprusside 50mg/5ml
 0.5-10mcg/kg/min

Noradrenaline 2mg/2ml 4mg/4ml 8mg/8ml
 0.05-1.0mcg/kg/min
 Single strength 4mg/50ml 5% Dex 1-20ml/h
 CENSER 4mg/250ml D5 (16mcg/ml) 0.05mcg/kg/min (13.1ml/h)

Octreotide
 50mcg iv bolus hourly

Ondansetron 4mg melt
 8-15kg 2mg, 15-30kg 4mg, >30kg 8mg

Paracetamol
 40mg/kg rectal (<3m 30mg/kg)

Paraldehyde 5ml, 10ml
 0.1ml/kg (5ml) im
 0.4ml/kg (10ml) pr 50% in oil
 10ml in 100ml 0.9% Sal over 10min iv

Phenobarbitone
 20mg/kg

Phentolamine mesilate 10mg/ml (α-blocker for cocaine)
 2-5mg in 5min (1mg aliquots) then 0.2-0.5mg/min

Phenytoin 250mg/5ml (50mg = 75mg fosphenytoin)
 20mg/kg at 1mg/kg/min
 Arrhythmias 3.5-5mg/kg

Potassium
 0.5mmol/kg loading then 0.08mmol/kg/h (APLS)
 60mmol at 30mmol/h max

Pralidoxime
 2g stat, up to 10-20g total

Prednisolone
 1-2mg/kg po

Prilocaine 20ml 1%
 Max 6mg/kg (BNF 400mg)
 Treat methaemoglobinaemia with 1mg/kg methylene blue

Procainamide
 1000mg (15mg/kg) over 30min

Propofol 1% 200mg/20ml or 2%
 1-2.5mg/kg for sedation / induction

Propranolol 1mg/1ml
 30mcg/kg (1mg) in 1 min repeated up to 100mcg/kg

Prostaglandin PGE₁ (Alprostadil / Prostin VR)
 Alprostadil 500mcg/1ml
 Duct dependent disease 5-100 ng/kg/min.

Prostaglandin PGE₂ (Dinoprostone / Prostin E2)
 Duct dependent disease 5-20 nanograms/kg/min, causes apnoea.

Pyridoxine (isoniazid poisoning)
 50mg iv stat

Quinine (malaria)
 20mg/kg in 5% dex over 4h

Remifentanyl 1mg, 2mg, 3mg
 1mcg/kg then 0.5 mcg/kg/min (0.1-1mcg/kg/min)
 Duration 1 min (no accumulation)

Reteplase 2 x 10unit pack
 10units stat + 10units after 30min

Rocuronium 50mg/5ml or 100mg/10ml
 1mg/kg lasts 60 min then 0.5mg/kg/h

Salbutamol 250mcg/5ml, 500mcg/1ml, 5mg/5ml
 250mcg iv 10min then 5mcg/min (3-20) (0.2-1.2mg/h)
 15mcg/kg iv (max 250mcg, 1-23 months 5mcg/kg) 5min
 infusion 1-5mcg/kg/min
 Hyperkalaemia 4mcg/kg iv stat or 5-10mg neb

Somatostatin
 250mcg/h for 72h

Sotalol
 20-60mg in 2-3 min, repeat in 10min (BNF)

Streptokinase
 1.5MU in 0.9% saline in 60min

Sugammadex 200mg/2ml or 500mg/5ml
 Reversal of rocuronium, vecuronium, pancuronium: 16mg/kg

Suxamethonium 100mg/2ml
 <1y 2mg/kg
 >1y 1-1.5mg/kg (100mg)

Syntometrine
 1ml = 5units oxytocin + 500mcg ergometrine

Terlipressin
 1-2mg bolus 6 hourly

Thiopentone
 3-5mg/kg for induction

Tranexamic Acid 500mg/5ml
 1g (15mg/kg) in 100ml over 10 min then 1g in 500ml over 8 hours

Vasopressin
 20units/100ml in 10min 6 hourly

Vecuronium
 0.1mg/kg lasts 30 min then 0.1mg/kg/h

Verapamil
 100-300mcg/kg iv or 5-10mg iv